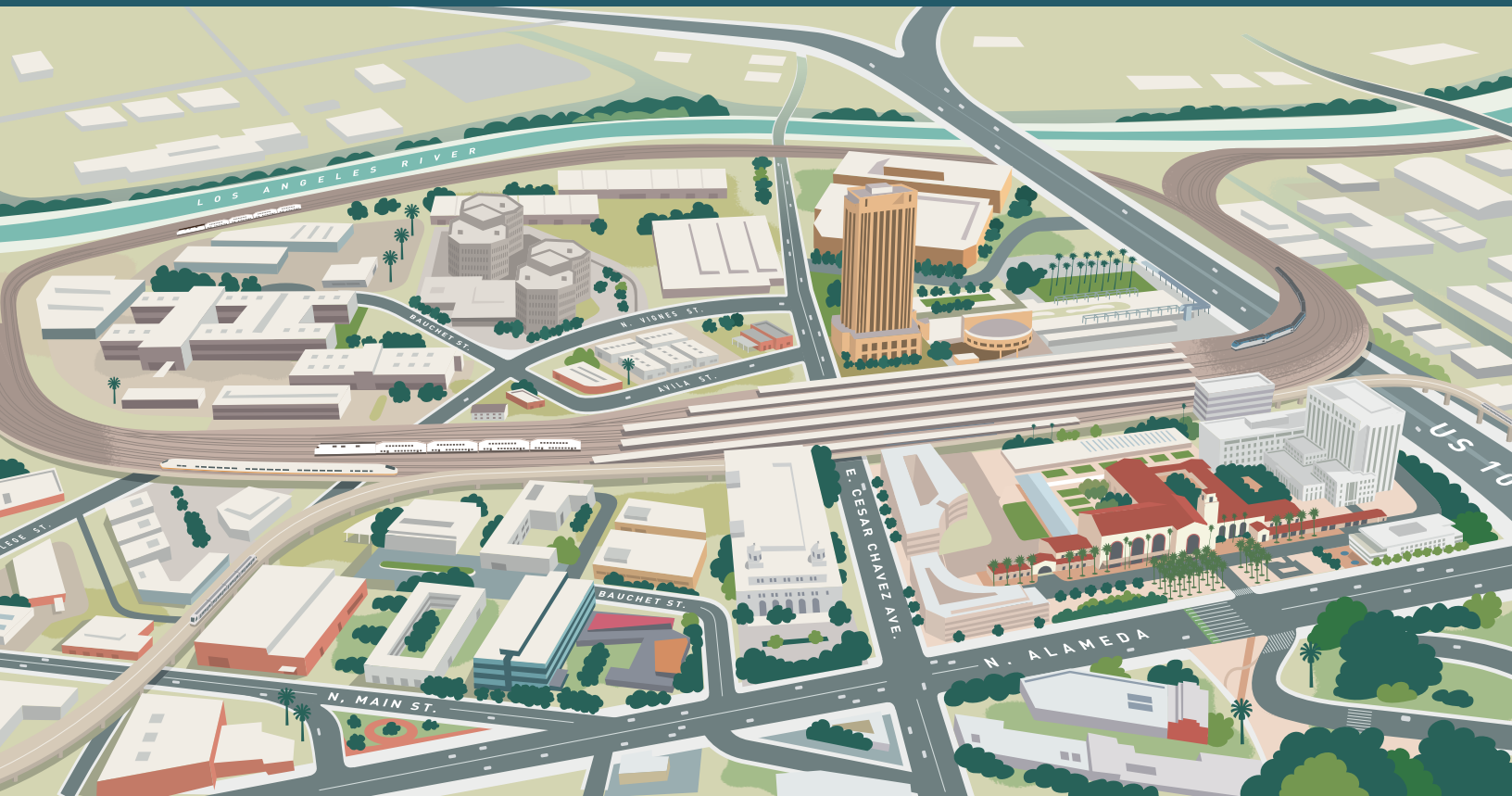


# Link Union Station

DRAFT – Phase I Environmental Site Assessment

October 2016



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**Attachment E**

**PUF Samples Laboratory Reports**



## American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 09/10/2013  
Date Reported 09/19/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70582	09/10/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP  
718 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director







# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/10/2013  
Date Reported 09/19/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70582	09/10/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 09/10/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70582.01	BGE090913	09/09/2013	Gaseous	1
70582.02	BGW090913	09/09/2013	Gaseous	1
Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	09/17/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70582	09/10/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 091613IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			09/16/2013			
Preparation Method			3540C			
Date Analyzed			09/17/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		90.1			



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70582	09/10/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 091613IB1

Our Lab I.D.			70582.01	70582.02		
Client Sample I.D.			BGE090913	BGW090913		
Date Sampled			09/09/2013	09/09/2013		
Date Prepared			09/16/2013	09/16/2013		
Preparation Method			3540C	3540C		
Date Analyzed			09/17/2013	09/17/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	2.42	2.20		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	0.404	0.266J		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	ND	ND		
Benzo(b)fluoranthene	0.05	0.10	ND	ND		
Benzo(g,h,i)perylene	0.05	0.10	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	ND	ND		
Chrysene	0.05	0.10	ND	ND		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	2.29	1.67		
Fluorene	0.05	0.10	6.01	3.35		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Naphthalene	0.20	0.40	52.0	56.6		
Phenanthrene	0.05	0.10	16.3	11.1		
Pyrene	0.05	0.10	2.14	1.74		
Sample Volume (in cubic meters)	5	5	139	126		
Our Lab I.D.			70582.01	70582.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		106	119		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70582	09/10/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 091613IB1; LCS: Blank; LCS Prepared: 09/16/2013; LCS Analyzed: 09/17/2013; Units: ng/m3

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Acenaphthene	500	531	106	500	521	104	1.90	60-140	<40	
Acenaphthylene	1,000	943	94.3	1,000	909	90.9	3.67	70-130	<30	
Anthracene	50.0	50.6	101	50.0	49.8	99.6	1.40	70-130	<30	
Benzo(a)anthracene	50.0	55.4	111	50.0	54.1	108	2.74	70-130	<30	
Benzo(a)pyrene	50.0	49.3	98.6	50.0	48.6	97.2	1.43	70-130	<30	
Benzo(b)fluoranthene	100	103	103	100	100	100	2.96	70-130	<30	
Benzo(g,h,i)perylene	100	102	102	100	79.0	79.0	25.4	70-130	<30	
Benzo(k)fluoranthene	50.0	54.0	108	50.0	52.8	106	1.87	70-130	<30	
Chrysene	50.0	55.0	110	50.0	54.1	108	1.83	70-130	<30	
Dibenzo(a,h)anthracene	100	112	112	100	108	108	3.64	70-130	<30	
Fluoranthene	100	107	107	100	104	104	2.84	70-130	<30	
Fluorene	100	95.1	95.1	100	92.5	92.5	2.77	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	54.8	110	50.0	51.3	103	6.57	70-130	<30	
Naphthalene	500	522	104	500	506	101	2.93	60-140	<40	
Phenanthrene	50.0	53.2	106	50.0	52.4	105	<1	70-130	<30	
Pyrene	50.0	54.6	109	50.0	52.6	105	3.74	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	911	114	800	898	112	1.75	75-125	<20	



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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 09/12/2013  
Date Reported 09/19/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70608	09/12/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 4 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director







# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/12/2013  
Date Reported 09/19/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70608	09/12/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 4 samples with the following specification on 09/12/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70608.01	E0910	09/10/2013	Gaseous	1
70608.02	W0910	09/10/2013	Gaseous	1
70608.03	E0911	09/11/2013	Gaseous	1
70608.04	W0911	09/11/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	09/19/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70608	09/12/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 091613IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			09/16/2013			
Preparation Method			3540C			
Date Analyzed			09/17/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		90.1			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70608	09/12/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 091613IB1

Our Lab I.D.			70608.01	70608.02	70608.03	70608.04	
Client Sample I.D.			E0910	W0910	E0911	W0911	
Date Sampled			09/10/2013	09/10/2013	09/11/2013	09/11/2013	
Date Prepared			09/16/2013	09/16/2013	09/16/2013	09/16/2013	
Preparation Method			3540C	3540C	3540C	3540C	
Date Analyzed			09/17/2013	09/17/2013	09/17/2013	09/18/2013	
Matrix			Gaseous	Gaseous	Gaseous	Gaseous	
Units			ng/m3	ng/m3	ng/m3	ng/m3	
Dilution Factor			5	5	5	5	
Analytes	MDL	PQL	Results	Results	Results	Results	
Acenaphthene	0.10	0.20	5.66	2.74	3.00	2.04	
Acenaphthylene	0.05	0.10	ND	ND	ND	ND	
Anthracene	0.20	0.40	0.852	0.325J	0.574	0.307J	
Benzo(a)anthracene	0.05	0.10	ND	ND	ND	ND	
Benzo(a)pyrene	0.05	0.10	ND	ND	ND	ND	
Benzo(b)fluoranthene	0.05	0.10	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.05	0.10	ND	ND	ND	ND	
Benzo(k)fluoranthene	0.10	0.20	ND	ND	ND	ND	
Chrysene	0.05	0.10	ND	ND	ND	ND	
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND	ND	ND	
Fluoranthene	0.05	0.10	3.06	2.07	2.02	1.57	
Fluorene	0.05	0.10	10.3	5.95	3.51	2.83	
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND	ND	ND	
Naphthalene	0.20	0.40	118	57.7	75.1	56.6	
Phenanthrene	0.05	0.10	23.5	13.6	15.5	10.8	
Pyrene	0.05	0.10	3.61	2.13	2.61	1.85	
Sample Volume (in cubic meters)	5	5	130	123	123	114	
Our Lab I.D.			70608.01	70608.02	70608.03	70608.04	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125		121	108	116	111	



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70608	09/12/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 091613IB1; LCS: Blank; LCS Prepared: 09/16/2013; LCS Analyzed: 09/17/2013; Units: ng/m3

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Acenaphthene	500	531	106	500	521	104	1.90	60-140	<40
Acenaphthylene	1,000	943	94.3	1,000	909	90.9	3.67	70-130	<30
Anthracene	50.0	50.6	101	50.0	49.8	99.6	1.40	70-130	<30
Benzo(a)anthracene	50.0	55.4	111	50.0	54.1	108	2.74	70-130	<30
Benzo(a)pyrene	50.0	49.3	98.6	50.0	48.6	97.2	1.43	70-130	<30
Benzo(b)fluoranthene	100	103	103	100	100	100	2.96	70-130	<30
Benzo(g,h,i)perylene	100	101	101	100	105	105	3.9	70-130	<30
Benzo(k)fluoranthene	50.0	54.0	108	50.0	52.8	106	1.87	70-130	<30
Chrysene	50.0	55.0	110	50.0	54.1	108	1.83	70-130	<30
Dibenzo(a,h)anthracene	100	112	112	100	108	108	3.64	70-130	<30
Fluoranthene	100	107	107	100	104	104	2.84	70-130	<30
Fluorene	100	95.1	95.1	100	92.5	92.5	2.77	60-140	<40
Indeno(1,2,3-cd)pyrene	50.0	54.8	110	50.0	51.3	103	6.57	70-130	<30
Naphthalene	500	522	104	500	506	101	2.93	60-140	<40
Phenanthrene	50.0	53.2	106	50.0	52.4	105	<1	70-130	<30
Pyrene	50.0	54.6	109	50.0	52.6	105	3.74	75-125	<30
<b>Surrogates</b>									
p-Terphenyl-D14	800	911	114	800	898	112	1.75	75-125	<20



## American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 09/16/2013  
Date Reported 09/19/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70648	09/16/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP

Enclosed please find results of analyses of 4 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





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**CHAIN OF CUSTODY RECORD**

No 65778

Page 1 of 1

AETL JOB No. 70648

COMPANY: SCGC PROJECT MANAGER: K. Cheyne

COMPANY ADDRESS: 555 W 5th St. PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

PROJECT NAME: Former Alameda MGP PROJECT #: \_\_\_\_\_

SITE NAME AND ADDRESS: 732 S. Alameda St. PO #: \_\_\_\_\_  
Los Angeles CA 90021

ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS
LAB ID	DATE	MATRIX	CONTAINER NUMBER/SIZE	
E 0912	3-22-13	AIR	PUF	V = 126 m <sup>3</sup>
W 0912	9-12-13	AIR	PUF	V = 114 m <sup>3</sup>
E 0912	9-13-13	AIR	PUF	V = 108 m <sup>3</sup>
W 0913	9-13-13	AIR	PUF	V = 101 m <sup>3</sup>

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: 4 PROPERLY COOLED:  Y  N  NA

CUSTOMY SEALS:  Y  N  NA SAMPLES INTACT:  Y  N  NA

RECEIVED IN GOOD COND.:  Y  N SAMPLES ACCEPTED:  Y  N

TURN AROUND TIME:  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

NORMAL  RUSH

RELINQUISHED BY: 1. Signature: ASB Printed Name: Asbot Sakhrayao Date: 9-16-13 Time: 12:25

RELINQUISHED BY: 2. Signature: [Signature] Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

RELINQUISHED BY: 3. Signature: [Signature] Printed Name: Thomas Rabonson Date: 9-16-13 Time: 15:20

RECEIVED BY: 1. Signature: [Signature] Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

RECEIVED BY: 2. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

RECEIVED BY: 3. Signature: [Signature] Printed Name: Leah Glavole Date: 09/16/13 Time: 15:20

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/16/2013  
Date Reported 09/19/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70648	09/16/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 4 samples with the following specification on 09/16/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70648.01	E0912	09/12/2013	Gaseous	1
70648.02	W0912	09/12/2013	Gaseous	1
70648.03	E0913	09/13/2013	Gaseous	1
70648.04	W0913	09/13/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	09/23/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70648	09/16/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 091613IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			09/16/2013			
Preparation Method			3540C			
Date Analyzed			09/18/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		103			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA  
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70648	09/16/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 091613IB1

Our Lab I.D.			70648.01	70648.02	70648.03	70648.04	
Client Sample I.D.			E0912	W0912	E0913	W0913	
Date Sampled			09/12/2013	09/12/2013	09/13/2013	09/13/2013	
Date Prepared			09/16/2013	09/16/2013	09/16/2013	09/16/2013	
Preparation Method			3540C	3540C	3540C	3540C	
Date Analyzed			09/18/2013	09/18/2013	09/18/2013	09/18/2013	
Matrix			Gaseous	Gaseous	Gaseous	Gaseous	
Units			ng/m3	ng/m3	ng/m3	ng/m3	
Dilution Factor			5	5	5	5	
Analytes	MDL	PQL	Results	Results	Results	Results	
Acenaphthene	0.10	0.20	4.94	6.54	7.86	8.22	
Acenaphthylene	0.05	0.10	ND	ND	ND	ND	
Anthracene	0.20	0.40	0.538	1.07	0.909	0.974	
Benzo(a)anthracene	0.05	0.10	ND	ND	ND	ND	
Benzo(a)pyrene	0.05	0.10	ND	ND	ND	ND	
Benzo(b)fluoranthene	0.05	0.10	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.05	0.10	ND	ND	ND	ND	
Benzo(k)fluoranthene	0.10	0.20	ND	ND	ND	ND	
Chrysene	0.05	0.10	ND	ND	ND	ND	
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND	ND	ND	
Fluoranthene	0.05	0.10	2.92	3.42	3.96	4.52	
Fluorene	0.05	0.10	5.40	7.02	9.86	9.58	
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND	ND	ND	
Naphthalene	0.20	0.40	103	142	151	173	
Phenanthrene	0.05	0.10	17.3	26.4	27.6	29.6	
Pyrene	0.05	0.10	3.14	3.84	4.20	5.29	
Sample Volume (in cubic meters)	5	5	126	114	108	101	
Our Lab I.D.			70648.01	70648.02	70648.03	70648.04	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125		115	119	114	118	



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70648	09/16/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 091613IB1; LCS: Blank; LCS Prepared: 09/16/2013; LCS Analyzed: 09/17/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	531	106	500	521	104	1.90	60-140	<40	
Acenaphthylene	1,000	943	94.3	1,000	909	90.9	3.67	70-130	<30	
Anthracene	50.0	50.6	101	50.0	49.8	99.6	1.40	70-130	<30	
Benzo(a)anthracene	50.0	55.4	111	50.0	54.1	108	2.74	70-130	<30	
Benzo(a)pyrene	50.0	49.3	98.6	50.0	48.6	97.2	1.43	70-130	<30	
Benzo(b)fluoranthene	100	103	103	100	100	100	2.96	70-130	<30	
Benzo(g,h,i)perylene	100	101	101	100	105	105	3.88	70-130	<30	
Benzo(k)fluoranthene	50.0	54.0	108	50.0	52.8	106	1.87	70-130	<30	
Chrysene	50.0	55.0	110	50.0	54.1	108	1.83	70-130	<30	
Dibenzo(a,h)anthracene	100	112	112	100	108	108	3.64	70-130	<30	
Fluoranthene	100	107	107	100	104	104	2.84	70-130	<30	
Fluorene	100	95.1	95.1	100	92.5	92.5	2.77	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	54.8	110	50.0	51.3	103	6.57	70-130	<30	
Naphthalene	500	522	104	500	506	101	2.93	60-140	<40	
Phenanthrene	50.0	53.2	106	50.0	52.4	105	<1	70-130	<30	
Pyrene	50.0	54.6	109	50.0	52.6	105	3.74	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	911	114	800	898	112	1.75	75-125	<20	



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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 09/18/2013  
Date Reported 10/08/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70685	09/18/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

No. 65781

Page 1 of 1

AETL JOB No. 70685

PROJECT MANAGER K. Chesne

COMPANY SCGC

COMPANY ADDRESS 555 W 5th St  
PHONE  
FAX  
PROJECT #

PROJECT NAME Former Alameda MGP

SITE NAME AND ADDRESS 732 S. Alameda St  
PO #

Los Angeles CA 90021

Table with columns: SAMPLE ID, LAB ID, DATE, TIME, MATRIX, CONTAINER NUMBER/SIZE, PRES. Includes handwritten entries for samples E0916 and W0916.

ANALYSIS REQUESTED (Grid)

TEST INSTRUCTIONS & COMMENTS (Grid)

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS 2  
CUSTODY SEALS Y/N/NA  
RECEIVED IN GOOD COND. Y/N

TURN AROUND TIME  
 SAME DAY  
 NEXT DAY  
 2 DAYS  
 3 DAYS

NORMAL  
 RUSH

RELINQUISHED BY SAMPLER: 1. Signature: [Signature] Date: 9-18-13 Time: 12:20

RELINQUISHED BY: 2. Signature: [Signature] Date: 9-18-13 Time: 12:27

RELINQUISHED BY: 3. Signature: [Signature] Date: 9-19-13 Time: 12:27



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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/18/2013  
Date Reported 10/08/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70685	09/18/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 09/18/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70685.01	E0916	09/16/2013	Gaseous	1
70685.02	W0916	09/16/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	09/25/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70685	09/18/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 092313IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			09/23/2013			
Preparation Method			3540C			
Date Analyzed			09/24/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		83.6			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70685	09/18/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 092313IB1

Our Lab I.D.			70685.01	70685.02		
Client Sample I.D.			E0916	W0916		
Date Sampled			09/16/2013	09/16/2013		
Date Prepared			09/23/2013	09/23/2013		
Preparation Method			3540C	3540C		
Date Analyzed			09/24/2013	09/24/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	5.24	6.49		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	0.742	0.890		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	ND	1.12		
Benzo(b)fluoranthene	0.05	0.10	ND	0.784		
Benzo(g,h,i)perylene	0.05	0.10	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	ND	0.458		
Chrysene	0.05	0.10	ND	ND		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	3.15	4.76		
Fluorene	0.05	0.10	9.52	11.8		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Naphthalene	0.20	0.40	84.2	134		
Phenanthrene	0.05	0.10	23.4	25.2		
Pyrene	0.05	0.10	3.27	5.62		
Sample Volume (in cubic meters)	5	5	118	104		
Our Lab I.D.			70685.01	70685.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		119	121		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70685	09/18/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 092313IB1; LCS: Blank; LCS Prepared: 09/23/2013; LCS Analyzed: 09/24/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	536	107	500	542	108	<1	60-140	<40	
Acenaphthylene	1,000	913	91.3	1,000	920	92.0	<1	70-130	<30	
Anthracene	50.0	50.6	101	50.0	50.8	102	<1	70-130	<30	
Benzo(a)anthracene	50.0	52.5	105	50.0	61.8	124	16.6	70-130	<30	
Benzo(a)pyrene	50.0	49.6	99.2	50.0	50.2	100	<1	70-130	<30	
Benzo(b)fluoranthene	100	99.6	99.6	100	101	101	1.40	70-130	<30	
Benzo(g,h,i)perylene	100	105	105	100	107	107	1.89	70-130	<30	
Benzo(k)fluoranthene	50.0	52.8	106	50.0	54.5	109	2.79	70-130	<30	
Chrysene	50.0	52.5	105	50.0	54.2	108	2.82	70-130	<30	
Dibenzo(a,h)anthracene	100	105	105	100	109	109	3.74	70-130	<30	
Fluoranthene	100	105	105	100	105	105	<1	70-130	<30	
Fluorene	100	93.9	93.9	100	95.4	95.4	1.58	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	52.5	105	50.0	53.5	107	1.89	70-130	<30	
Naphthalene	500	513	103	500	521	104	<1	60-140	<40	
Phenanthrene	50.0	53.0	106	50.0	54.2	108	1.87	70-130	<30	
Pyrene	50.0	54.6	109	50.0	54.7	109	<1	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	904	113	800	920	115	1.77	75-125	<20	



## American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 09/20/2013  
Date Reported 10/08/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70722	09/20/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





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# CHAIN OF CUSTODY RECORD

No 83817

Page 1 of 1

AETL JOB No. **70722**

**COMPANY** SGC  
**PROJECT MANAGER** K. Cheyne  
**COMPANY ADDRESS** 555 W 5th St L.A.  
**PHONE**  
**FAX**  
**PROJECT NAME** Former Alameda MGP  
**PROJECT #**  
**SITE NAME AND ADDRESS** 732 S. Alameda St. PO #  
 Los Angeles CA

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
E0919	70722-01	9-19-13	16:35	AIR	PUF	-
W0919	70722-02	9-19-13	16:40	AIR	PUF	-

ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
TO-13	
	V = 121 m3
	V = 115 m3

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: 2  
 PROPERLY COOLED Y/N/NA  
 CUSTODY SEALS Y/N/NA: SAMPLES INTACT Y/N/NA  
 RECEIVED IN GOOD COND: Y/N: SAMPLES ACCEPTED Y/N

TURN AROUND TIME  
 SAME DAY  
 NEXT DAY  
 2 DAYS  
 3 DAYS

DATA DELIVERABLE REQUIRED  
 HARD COPY  
 PDF  
 GEOTRACKER (GLOBAL ID)  
 OTHER (PLEASE SPECIFY)

**RECEIVED BY:** 1. Signature: *[Signature]*  
 Printed Name: *ASHLEY SAKHAYAN*  
 Date: 9-20-13 Time: 1355

**RELINQUISHED BY SAMPLER:** Signature: *[Signature]*  
 Printed Name: *ASHLEY SAKHAYAN*  
 Date: 9-20-13 Time: 1355

**RECEIVED BY:** 2. Signature: *[Signature]*  
 Printed Name: *ASHLEY SAKHAYAN*  
 Date: 9-20-13 Time: 1415

**RELINQUISHED BY:** 3. Signature: *[Signature]*  
 Printed Name: *ASHLEY SAKHAYAN*  
 Date: 9-20-13 Time: 1415

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/20/2013  
Date Reported 10/08/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70722	09/20/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 09/20/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70722.01	E0919	09/19/2013	Gaseous	1
70722.02	W0919	09/19/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	09/27/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70722	09/20/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 092313IB1

Our Lab I.D.	Method Blank		
Client Sample I.D.			
Date Sampled			
Date Prepared	09/23/2013		
Preparation Method	3540C		
Date Analyzed	09/24/2013		
Matrix	Gaseous		
Units	ng/m3		
Dilution Factor	1		
Analytes	MDL	PQL	Results
Acenaphthene	0.02	0.04	ND
Acenaphthylene	0.01	0.02	ND
Anthracene	0.04	0.08	ND
Benzo(a)anthracene	0.01	0.02	ND
Benzo(a)pyrene	0.01	0.02	ND
Benzo(b)fluoranthene	0.01	0.02	ND
Benzo(g,h,i)perylene	0.01	0.02	ND
Benzo(k)fluoranthene	0.02	0.04	ND
Chrysene	0.01	0.02	ND
Dibenzo(a,h)anthracene	0.01	0.02	ND
Fluoranthene	0.01	0.02	ND
Fluorene	0.01	0.02	ND
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND
Naphthalene	0.04	0.08	ND
Phenanthrene	0.01	0.02	ND
Pyrene	0.01	0.02	ND
Sample Volume (in cubic meters)	1.0	1.0	300
Our Lab I.D.	Method Blank		
Surrogates	%Rec.Limit	% Rec.	
p-Terphenyl-D14	75-125	83.6	



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70722	09/20/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 092313IB1

Our Lab I.D.			70722.01	70722.02		
Client Sample I.D.			E0919	W0919		
Date Sampled			09/19/2013	09/19/2013		
Date Prepared			09/23/2013	09/23/2013		
Preparation Method			3540C	3540C		
Date Analyzed			09/24/2013	09/24/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	5.88	4.64		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	0.740	0.585		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	ND	0.984		
Benzo(b)fluoranthene	0.05	0.10	ND	0.690		
Benzo(g,h,i)perylene	0.05	0.10	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	ND	0.370		
Chrysene	0.05	0.10	ND	ND		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	3.68	3.93		
Fluorene	0.05	0.10	90.1	43.6		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Naphthalene	0.20	0.40	116	101		
Phenanthrene	0.05	0.10	21.5	19.1		
Pyrene	0.05	0.10	4.59	4.87		
Sample Volume (in cubic meters)	5	5	121	115		
Our Lab I.D.			70722.01	70722.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		118	121		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70722	09/20/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 092313IB1; LCS: Blank; LCS Prepared: 09/23/2013; LCS Analyzed: 09/24/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	536	107	500	542	108	<1	60-140	<40	
Acenaphthylene	1,000	913	91.3	1,000	920	92.0	<1	70-130	<30	
Anthracene	50.0	50.6	101	50.0	50.8	102	<1	70-130	<30	
Benzo(a)anthracene	50.0	52.5	105	50.0	61.8	124	16.6	70-130	<30	
Benzo(a)pyrene	50.0	49.6	99.2	50.0	50.2	100	<1	70-130	<30	
Benzo(b)fluoranthene	100	99.6	99.6	100	101	101	1.40	70-130	<30	
Benzo(g,h,i)perylene	100	105	105	100	107	107	1.89	70-130	<30	
Benzo(k)fluoranthene	50.0	52.8	106	50.0	54.5	109	2.79	70-130	<30	
Chrysene	50.0	52.5	105	50.0	54.2	108	2.82	70-130	<30	
Dibenzo(a,h)anthracene	100	105	105	100	109	109	3.74	70-130	<30	
Fluoranthene	100	105	105	100	105	105	<1	70-130	<30	
Fluorene	100	93.9	93.9	100	95.4	95.4	1.58	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	52.5	105	50.0	53.5	107	1.89	70-130	<30	
Naphthalene	500	513	103	500	521	104	<1	60-140	<40	
Phenanthrene	50.0	53.0	106	50.0	54.2	108	1.87	70-130	<30	
Pyrene	50.0	54.6	109	50.0	54.7	109	<1	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	904	113	800	920	115	1.77	75-125	<20	



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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



## American Environmental Testing Laboratory Inc.

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 09/25/2013  
Date Reported 10/08/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70755	09/25/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





American Environmental Testing Laboratory Inc.  
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# CHAIN OF CUSTODY RECORD

No 65782

Page 1 of 1

COMPANY: **SCGC** PROJECT MANAGER: **K. cheyne**  
 COMPANY ADDRESS: **555 W 5th St, LA.** PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
 PROJECT NAME: **Former Alameda MGP** PROJECT # \_\_\_\_\_

SITE NAME AND ADDRESS: **732 S. Alameda St.  
Los Angeles CA 90021** PO # \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
E 0324	70755.01	9-24-13	16:00	AIR	PUF	—
W 0324	70755.02	9-24-13	16:05	AIR	PUF	—

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: <b>2</b>	PROPERLY COOLED: <input checked="" type="checkbox"/> Y/N/NA
CUSTODY SEALS: <input checked="" type="checkbox"/> Y/N/NA	SAMPLES INTACT: <input checked="" type="checkbox"/> Y/N/NA
RECEIVED IN GOOD COND.: <input checked="" type="checkbox"/> Y/N	SAMPLES ACCEPTED: <input checked="" type="checkbox"/> Y/N
TURN AROUND TIME	
<input checked="" type="checkbox"/> NORMAL	<input type="checkbox"/> SAME DAY <input type="checkbox"/> NEXT DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS

RELINQUISHED BY SAMPLER: **ASTD** Signature: **ASTD** Printed Name: **ASHOT SHRYAN** Date: **9-25-13** Time: **1328**

RELINQUISHED BY: **1.** Signature: **Alameda** Printed Name: **Alameda** Date: **9-25-13** Time: **1325**

RELINQUISHED BY: **2.** Signature: **Alameda** Printed Name: **Alameda** Date: **9-25-13** Time: **1325**

RELINQUISHED BY: **3.** Signature: **Alameda** Printed Name: **Alameda** Date: **9-25-13** Time: **1325**



# American Environmental Testing Laboratory Inc.

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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/25/2013  
Date Reported 10/08/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70755	09/25/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 09/25/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70755.01	E0924	09/24/2013	Gaseous	1
70755.02	W0924	09/24/2013	Gaseous	1
Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	10/02/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70755	09/25/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 100113IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			10/01/2013			
Preparation Method			3540C			
Date Analyzed			10/03/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		117			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70755	09/25/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 100113IB1

Our Lab I.D.			70755.01	70755.02		
Client Sample I.D.			E0924	W0924		
Date Sampled			09/24/2013	09/24/2013		
Date Prepared			10/01/2013	10/01/2013		
Preparation Method			3540C	3540C		
Date Analyzed			10/03/2013	10/03/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	9.13	8.70		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	0.789	0.766		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	ND	ND		
Benzo(b)fluoranthene	0.05	0.10	ND	ND		
Benzo(g,h,i)perylene	0.05	0.10	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	ND	ND		
Chrysene	0.05	0.10	ND	ND		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	3.54	3.28		
Fluorene	0.05	0.10	19.9	14.1		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Naphthalene	0.20	0.40	107	131		
Phenanthrene	0.05	0.10	27.6	25.4		
Pyrene	0.05	0.10	3.41	2.85		
Sample Volume (in cubic meters)	5	5	117	110		
Our Lab I.D.			70755.01	70755.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		87.0	123		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70755	09/25/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 100113IB1; LCS: Blank; LCS Prepared: 10/01/2013; LCS Analyzed: 10/03/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	577	115	500	522	104	10.0	60-140	<40	
Acenaphthylene	1,000	1,040	104	1,000	934	93.4	10.7	70-130	<30	
Anthracene	50.0	54.4	109	50.0	49.1	98.2	10.4	70-130	<30	
Benzo(a)anthracene	50.0	55.1	110	50.0	51.4	103	6.57	70-130	<30	
Benzo(a)pyrene	50.0	54.2	108	50.0	48.3	96.6	11.1	70-130	<30	
Benzo(b)fluoranthene	100	110	110	100	100	100	9.52	70-130	<30	
Benzo(g,h,i)perylene	100	119	119	100	117	117	1.69	70-130	<30	
Benzo(k)fluoranthene	50.0	58.3	117	50.0	52.4	105	10.8	70-130	<30	
Chrysene	50.0	53.5	107	50.0	52.8	106	<1	70-130	<30	
Dibenzo(a,h)anthracene	100	121	121	100	105	105	14.2	70-130	<30	
Fluoranthene	100	118	118	100	108	108	8.85	70-130	<30	
Fluorene	100	108	108	100	96.8	96.8	10.9	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	60.1	120	50.0	55.1	110	8.70	70-130	<30	
Naphthalene	500	536	107	500	485	97.0	9.80	60-140	<40	
Phenanthrene	50.0	58.2	116	50.0	52.8	106	9.01	70-130	<30	
Pyrene	50.0	53.0	106	50.0	48.8	97.6	8.25	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	858	107	800	803	100	6.54	75-125	<20	



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/06/2013  
Date Reported 11/21/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71224	11/06/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





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# CHAIN OF CUSTODY RECORD

No 65780

Page 1 of 1

COMPANY: SCGC PROJECT MANAGER: K. Cheyne  
 COMPANY ADDRESS: 555 W 5th St LA.  
 PROJECT NAME: Former Alameda MGP  
 SITE NAME AND ADDRESS: 732 S. Alameda St. Los Angeles CA 90021

AETL JOB No. 71224

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS
1	E10513	7/22/01	11-5-13	AIR	PUF	—			V = 134 m <sup>3</sup>
2	W110513	7/22/01	11-5-13	AIR	PUF	—			V = 12.5 m <sup>3</sup>
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: 2 PROPERLY COOLED Y/N/NA  
 CUSTODY SEALS Y/N/NA SAMPLES INTACT Y/N/NA  
 RECEIVED IN GOOD COND. Y/N SAMPLES ACCEPTED Y/N

TURN AROUND TIME:  SAME DAY  2 DAYS  NEXT DAY  3 DAYS

NORMAL  RUSH

RELINQUISHED BY SAMPLER: ASD  
 Signature: [Signature] Printed Name: ASHLEY SHKYGAN  
 Date: 11-6-13 Time: 11:15  
 RECEIVED BY: 1. Signature: [Signature] Printed Name: [Signature] Date: 11/6/13 Time: 10:47

RELINQUISHED BY: 2. Signature: [Signature] Printed Name: [Signature] Date: 11/6/13 Time: 10:47  
 RECEIVED BY: 3. Signature: [Signature] Printed Name: [Signature] Date: 11/6/13 Time: 10:47

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/06/2013  
Date Reported 11/21/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71224	11/06/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 11/06/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71224.01	E110513	11/05/2013	Gaseous	1
71224.02	W110513	11/05/2013	Gaseous	1
Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	11/13/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
71224	11/06/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111113IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/11/2013			
Preparation Method			3540C			
Date Analyzed			11/13/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		86.3			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
71224	11/06/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111113IB1

Our Lab I.D.			71224.01	71224.02		
Client Sample I.D.			E110513	W110513		
Date Sampled			11/05/2013	11/05/2013		
Date Prepared			11/11/2013	11/11/2013		
Preparation Method			3540C	3540C		
Date Analyzed			11/13/2013	11/13/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	5.32	3.93		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	0.872	0.448		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	0.511	0.328		
Benzo(b)fluoranthene	0.05	0.10	0.448	0.284		
Benzo(g,h,i)perylene	0.05	0.10	0.381	ND		
Benzo(k)fluoranthene	0.10	0.20	0.224	0.135J		
Chrysene	0.05	0.10	ND	ND		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	2.98	2.15		
Fluorene	0.05	0.10	9.87	7.08		
Indeno(1,2,3-cd)pyrene	0.10	0.20	0.500	ND		
Naphthalene	0.20	0.40	108	95.7		
Phenanthrene	0.05	0.10	29.3	19.3		
Pyrene	0.05	0.10	3.80	2.56		
Sample Volume (in cubic meters)	5	5	134	125		
Our Lab I.D.			71224.01	71224.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		121	121		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
71224	11/06/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111113IB1; LCS: Blank; LCS Prepared: 11/11/2013; LCS Analyzed: 11/13/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	571	114	500	534	107	6.33	60-140	<40	
Acenaphthylene	1,000	966	96.6	1,000	972	97.2	<1	70-130	<30	
Anthracene	50.0	51.6	103	50.0	50.6	101	1.96	70-130	<30	
Benzo(a)anthracene	50.0	58.3	117	50.0	55.5	111	5.26	70-130	<30	
Benzo(a)pyrene	50.0	52.0	104	50.0	49.8	99.6	4.32	70-130	<30	
Benzo(b)fluoranthene	100	106	106	100	102	102	3.85	70-130	<30	
Benzo(g,h,i)perylene	100	90.2	90.2	100	80.1	80.1	11.9	70-130	<30	
Benzo(k)fluoranthene	50.0	54.7	109	50.0	52.6	105	3.74	70-130	<30	
Chrysene	50.0	57.8	116	50.0	55.4	111	4.41	70-130	<30	
Dibenzo(a,h)anthracene	100	116	116	100	111	111	4.41	70-130	<30	
Fluoranthene	100	112	112	100	107	107	4.57	70-130	<30	
Fluorene	100	109	109	100	90.9	90.9	18.1	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	57.1	114	50.0	54.1	108	5.41	70-130	<30	
Naphthalene	500	522	104	500	499	99.8	4.12	60-140	<40	
Phenanthrene	50.0	56.2	112	50.0	54.2	108	3.64	70-130	<30	
Pyrene	50.0	55.4	111	50.0	52.5	105	5.56	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	937	117	800	888	111	5.13	75-125	<20	



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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



## American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/07/2013  
Date Reported 11/21/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71257	11/07/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





**American Environmental Testing Laboratory Inc.**  
 2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
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# CHAIN OF CUSTODY RECORD

No 65783

Page 1 of 1

AETL JOB No. **71257**

COMPANY <b>SCGC</b>		PROJECT MANAGER <b>K. Cheryne</b>	
COMPANY ADDRESS <b>555 W 5th St LA</b>		PHONE	FAX
PROJECT NAME <b>Former Alameda MGP</b>		PROJECT #	
SITE NAME AND ADDRESS <b>732 S. Alameda St. Los Angeles CA 90021</b>		PO #	

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	E 110613	71257.01 11-6-13	16:55	AIR	PUF	—
2	W 110613	71257.02 11-6-13	17:00	AIR	PUF	—
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
11-01			
X		V = 134 m <sup>3</sup>	
X		V = 126 m <sup>3</sup>	

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: **2** PROPERLY COOLED: Y/N/NA

CUSTODY SEALS: Y(N)/NA SAMPLES INTACT: Y/N/NA

RECEIVED IN GOOD COND.: Y(N)

TURN AROUND TIME:  SAME DAY  2 DAYS  3 DAYS

RUSH  NEXT DAY

NORMAL

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: <i>ASH</i>	Signature:	Signature:
Printed Name: <i>Abert Salky</i>	Printed Name:	Printed Name:
Date: <b>11-7-13</b> Time: <b>10:45</b>	Date:	Date:
RECEIVED BY:	RECEIVED BY:	RECEIVED BY:
Signature:	Signature:	Signature:
Printed Name: <i>Fulgencio</i>	Printed Name:	Printed Name:
Date: <b>11-07-13</b> Time: <b>11:50</b>	Date:	Date:
LABORATORY: <b>AETL 3.</b>	LABORATORY:	LABORATORY:

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



# American Environmental Testing Laboratory Inc.

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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/07/2013  
Date Reported 11/21/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71257	11/07/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 11/07/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71257.01	E110613	11/06/2013	Gaseous	1
71257.02	W110613	11/06/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	11/14/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71257	11/07/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111113IB1

<b>Our Lab I.D.</b>			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/11/2013			
Preparation Method			3540C			
Date Analyzed			11/13/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
<b>Our Lab I.D.</b>			Method Blank			
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>			
p-Terphenyl-D14	75-125		86.3			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71257	11/07/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111113IB1

Our Lab I.D.			71257.01	71257.02		
Client Sample I.D.			E110613	W110613		
Date Sampled			11/06/2013	11/06/2013		
Date Prepared			11/11/2013	11/11/2013		
Preparation Method			3540C	3540C		
Date Analyzed			11/13/2013	11/13/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	7.29	5.58		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	1.02	0.525		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	0.230	0.572		
Benzo(b)fluoranthene	0.05	0.10	0.114	0.500		
Benzo(g,h,i)perylene	0.05	0.10	ND	1.01		
Benzo(k)fluoranthene	0.10	0.20	ND	0.232		
Chrysene	0.05	0.10	ND	ND		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	2.88	3.12		
Fluorene	0.05	0.10	9.95	7.75		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	0.601		
Naphthalene	0.20	0.40	117	101		
Phenanthrene	0.05	0.10	30.7	21.9		
Pyrene	0.05	0.10	2.69	3.20		
Sample Volume (in cubic meters)	5	5	134	126		
Our Lab I.D.			71257.01	71257.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		123	121		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71257	11/07/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111113IB1; LCS: Blank; LCS Prepared: 11/11/2013; LCS Analyzed: 11/13/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	571	114	500	534	107	6.33	60-140	<40	
Acenaphthylene	1,000	966	96.6	1,000	972	97.2	<1	70-130	<30	
Anthracene	50.0	51.6	103	50.0	50.6	101	1.96	70-130	<30	
Benzo(a)anthracene	50.0	58.3	117	50.0	55.5	111	5.26	70-130	<30	
Benzo(a)pyrene	50.0	52.0	104	50.0	49.8	99.6	4.32	70-130	<30	
Benzo(b)fluoranthene	100	106	106	100	102	102	3.85	70-130	<30	
Benzo(g,h,i)perylene	100	90.2	90.2	100	80.1	80.1	11.9	70-130	<30	
Benzo(k)fluoranthene	50.0	54.7	109	50.0	52.6	105	3.74	70-130	<30	
Chrysene	50.0	57.8	116	50.0	55.4	111	4.41	70-130	<30	
Dibenzo(a,h)anthracene	100	116	116	100	111	111	4.41	70-130	<30	
Fluoranthene	100	112	112	100	107	107	4.57	70-130	<30	
Fluorene	100	109	109	100	90.9	90.9	18.1	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	57.1	114	50.0	54.1	108	5.41	70-130	<30	
Naphthalene	500	522	104	500	499	99.8	4.12	60-140	<40	
Phenanthrene	50.0	56.2	112	50.0	54.2	108	3.64	70-130	<30	
Pyrene	50.0	55.4	111	50.0	52.5	105	5.56	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	937	117	800	888	111	5.13	75-125	<20	



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/08/2013  
Date Reported 11/21/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71270	11/08/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





**American Environmental Testing Laboratory Inc.**  
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# CHAIN OF CUSTODY RECORD

No 81898

Page 1 of 1

COMPANY: SCGC PROJECT MANAGER: K. Chagne  
 COMPANY ADDRESS: 555 W 5th St LA. PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
 PROJECT NAME: Former Alameda MCP PROJECT #: \_\_\_\_\_  
 SITE NAME AND ADDRESS: 732 S. Alameda St. PO #: \_\_\_\_\_  
Los Angeles CA 90021

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS
							1	2	3	
1	E110713	7/29/02	11-7-13	AIR	PUE	—	X			V=130 m'
2	W110713	7/29/02	11-7-13	AIR	PUE	—	X			V=128 m'
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

AETL JOB No. 71270

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: <u>ASD</u> Printed Name: <u>Asht Shikhan</u> Date: <u>11-8-13</u> Time: <u>1021</u>	Signature: _____ Printed Name: _____ Date: _____ Time: _____	Signature: _____ Printed Name: _____ Date: <u>11-08-13</u> Time: <u>1110</u>
Signature: _____ Printed Name: _____ Date: _____ Time: _____	Signature: _____ Printed Name: _____ Date: _____ Time: _____	Signature: _____ Printed Name: _____ Date: _____ Time: _____

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: 2 PROPERLY COOLED: Y/N/NA  
 CUSTODY SEALS: Y/N/NA SAMPLES INTACT: Y/N/NA  
 RECEIVED IN GOOD COND.: Y/N SAMPLES ACCEPTED: Y/N

TURN AROUND TIME: \_\_\_\_\_ DATA DELIVERABLE REQUIRED: \_\_\_\_\_  
 NORMAL  RUSH  SAME DAY  NEXT DAY  
 2 DAYS  3 DAYS  
 HARD COPY  PDF  
 GEOTRACKER (GLOBAL ID) \_\_\_\_\_  
 OTHER (PLEASE SPECIFY) \_\_\_\_\_

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/08/2013  
Date Reported 11/21/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71270	11/08/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 11/08/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71270.01	E110713	11/07/2013	Gaseous	1
71270.02	W110713	11/07/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	11/15/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71270	11/08/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111113IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/11/2013			
Preparation Method			3540C			
Date Analyzed			11/13/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		86.3			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71270	11/08/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111113IB1

Our Lab I.D.			71270.01	71270.02		
Client Sample I.D.			E110713	W110713		
Date Sampled			11/07/2013	11/07/2013		
Date Prepared			11/11/2013	11/11/2013		
Preparation Method			3540C	3540C		
Date Analyzed			11/13/2013	11/13/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	7.93	7.96		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	1.05	0.866		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	0.889	1.21		
Benzo(b)fluoranthene	0.05	0.10	0.716	0.815		
Benzo(g,h,i)perylene	0.05	0.10	1.17	1.43		
Benzo(k)fluoranthene	0.10	0.20	0.352	0.493		
Chrysene	0.05	0.10	ND	ND		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	4.92	4.63		
Fluorene	0.05	0.10	11.6	10.5		
Indeno(1,2,3-cd)pyrene	0.10	0.20	1.01	1.40		
Naphthalene	0.20	0.40	103	135		
Phenanthrene	0.05	0.10	47.5	32.6		
Pyrene	0.05	0.10	6.50	5.46		
Sample Volume (in cubic meters)	5	5	130	126		
Our Lab I.D.			71270.01	71270.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		123	123		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71270	11/08/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111113IB1; LCS: Blank; LCS Prepared: 11/11/2013; LCS Analyzed: 11/13/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	571	114	500	534	107	6.33	60-140	<40	
Acenaphthylene	1,000	966	96.6	1,000	972	97.2	<1	70-130	<30	
Anthracene	50.0	51.6	103	50.0	50.6	101	1.96	70-130	<30	
Benzo(a)anthracene	50.0	58.3	117	50.0	55.5	111	5.26	70-130	<30	
Benzo(a)pyrene	50.0	52.0	104	50.0	49.8	99.6	4.32	70-130	<30	
Benzo(b)fluoranthene	100	106	106	100	102	102	3.85	70-130	<30	
Benzo(g,h,i)perylene	100	90.2	90.2	100	80.1	80.1	11.9	70-130	<30	
Benzo(k)fluoranthene	50.0	54.7	109	50.0	52.6	105	3.74	70-130	<30	
Chrysene	50.0	57.8	116	50.0	55.4	111	4.41	70-130	<30	
Dibenzo(a,h)anthracene	100	116	116	100	111	111	4.41	70-130	<30	
Fluoranthene	100	112	112	100	107	107	4.57	70-130	<30	
Fluorene	100	109	109	100	90.9	90.9	18.1	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	57.1	114	50.0	54.1	108	5.41	70-130	<30	
Naphthalene	500	522	104	500	499	99.8	4.12	60-140	<40	
Phenanthrene	50.0	56.2	112	50.0	54.2	108	3.64	70-130	<30	
Pyrene	50.0	55.4	111	50.0	52.5	105	5.56	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	937	117	800	888	111	5.13	75-125	<20	



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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/11/2013  
Date Reported 11/21/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71284	11/11/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





**COMPANY** SEGC **PROJECT MANAGER** K. Cheyne  
**COMPANY ADDRESS** 555 W 5th St LA **PHONE** \_\_\_\_\_ **FAX** \_\_\_\_\_  
**PROJECT NAME** Former Alameda HGP **PROJECT #** \_\_\_\_\_  
**SITE NAME AND ADDRESS** F32 S. Alameda St  
 LOS ANGELES CA **PO #** \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS
1	E 110813	11-8-03	15:30	AIR	PXF	—					V = 130 m3
2	W 110813	— 11 —	15:33	AIR	PXF	—	X	X			V = 125 m3
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

<b>TOTAL NUMBER OF CONTAINERS</b> <u>2</u>	<b>PROPERLY COOLED</b> <u>(Y) N / NA</u>	<b>RELINQUISHED BY SAMPLER:</b> <u>[Signature]</u> Signature: <u>[Signature]</u>	<b>RELINQUISHED BY:</b> <u>2.</u> Signature: <u>[Signature]</u>
<b>CUSTODY SEALS</b> <u>(X) N / NA</u>	<b>SAMPLES INTACT</b> <u>(Y) N / NA</u>	<b>PRINTED NAME:</b> <u>ASSET SARGAN</u> Printed Name: <u>Sargan</u>	<b>RECEIVED BY:</b> <u>2.</u> Signature: _____ Printed Name: _____
<b>RECEIVED IN GOOD COND.</b> <u>(Y) N</u>	<b>SAMPLES ACCEPTED</b> <u>(Y) N</u>	<b>DATE:</b> <u>11-11-13</u> Date: <u>11-11-13</u>	<b>RECEIVED BY LABORATORY:</b> <u>3.</u> Signature: _____ Printed Name: _____
<b>TURN AROUND TIME</b>	<b>DATA DELIVERABLE REQUIRED</b>	<b>RECEIVED BY:</b> <u>1.</u> Signature: _____ Printed Name: _____	<b>RECEIVED BY LABORATORY:</b> <u>3.</u> Signature: _____ Printed Name: _____

NORMAL  RUSH

SAME DAY  NEXT DAY  2 DAYS  3 DAYS

HARD COPY  PDF  GEOTRACKER (GLOBAL ID)  OTHER (PLEASE SPECIFY) \_\_\_\_\_

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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/11/2013  
Date Reported 11/21/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71284	11/11/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 11/11/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71284.01	E110813	11/08/2013	Gaseous	1
71284.02	W110813	11/08/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	11/18/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71284	11/11/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111113IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/11/2013			
Preparation Method			3540C			
Date Analyzed			11/13/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		86.3			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71284	11/11/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111113IB1

Our Lab I.D.			71284.01	71284.02		
Client Sample I.D.			E110813	W110813		
Date Sampled			11/08/2013	11/08/2013		
Date Prepared			11/11/2013	11/11/2013		
Preparation Method			3540C	3540C		
Date Analyzed			11/13/2013	11/13/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	6.71	7.10		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	0.847	0.829		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	0.239	0.419		
Benzo(b)fluoranthene	0.05	0.10	0.251	0.340		
Benzo(g,h,i)perylene	0.05	0.10	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	0.115J	0.189J		
Chrysene	0.05	0.10	ND	ND		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	3.67	3.57		
Fluorene	0.05	0.10	10.0	10.3		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Naphthalene	0.20	0.40	115	134		
Phenanthrene	0.05	0.10	27.9	27.4		
Pyrene	0.05	0.10	3.54	3.74		
Sample Volume (in cubic meters)	5	5	130	125		
Our Lab I.D.			71284.01	71284.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		121	124		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71284	11/11/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111113IB1; LCS: Blank; LCS Prepared: 11/11/2013; LCS Analyzed: 11/13/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	571	114	500	534	107	6.33	60-140	<40	
Acenaphthylene	1,000	966	96.6	1,000	972	97.2	<1	70-130	<30	
Anthracene	50.0	51.6	103	50.0	50.6	101	1.96	70-130	<30	
Benzo(a)anthracene	50.0	58.3	117	50.0	55.5	111	5.26	70-130	<30	
Benzo(a)pyrene	50.0	52.0	104	50.0	49.8	99.6	4.32	70-130	<30	
Benzo(b)fluoranthene	100	106	106	100	102	102	3.85	70-130	<30	
Benzo(g,h,i)perylene	100	90.2	90.2	100	80.1	80.1	11.9	70-130	<30	
Benzo(k)fluoranthene	50.0	54.7	109	50.0	52.6	105	3.74	70-130	<30	
Chrysene	50.0	57.8	116	50.0	55.4	111	4.41	70-130	<30	
Dibenzo(a,h)anthracene	100	116	116	100	111	111	4.41	70-130	<30	
Fluoranthene	100	112	112	100	107	107	4.57	70-130	<30	
Fluorene	100	109	109	100	90.9	90.9	18.1	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	57.1	114	50.0	54.1	108	5.41	70-130	<30	
Naphthalene	500	522	104	500	499	99.8	4.12	60-140	<40	
Phenanthrene	50.0	56.2	112	50.0	54.2	108	3.64	70-130	<30	
Pyrene	50.0	55.4	111	50.0	52.5	105	5.56	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	937	117	800	888	111	5.13	75-125	<20	



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/12/2013  
Date Reported 12/03/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71294	11/12/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





**American Environmental Testing Laboratory Inc.**  
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**CHAIN OF CUSTODY RECORD**

No. 81900

Page 1 of 1

AETL JOB No. 71294

COMPANY: *SC & C* PROJECT MANAGER: *W. Cheryl*  
 COMPANY ADDRESS: *555 W 5th St CA* PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
 PROJECT NAME: *Former Alameda MGP* PROJECT #: \_\_\_\_\_  
 SITE NAME AND ADDRESS: *132 S. Alameda St Los Angeles CA* PO #: \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
E 111113	71294.01	11-11-13	16:30	AIR	PUF	--	TO-13	V=129 m³
W 111113	71294.02	11-11-13	16:40	AIR	PUF	--	XX	V=125 m³

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: <i>2</i>	PROPERLY COOLED: <i>(Y/N/NA)</i>	RELINQUISHED BY SAMPLER: <i>ASD</i>	1. Signature: _____
CUSTOMY SEALS: <i>(Y/N/NA)</i>	SAMPLES INTACT: <i>(Y/N/NA)</i>	Printed Name: <i>ASHOT SHUKHAN</i>	2. Signature: _____
RECEIVED IN GOOD COND: <i>(Y/N)</i>	SAMPLES ACCEPTED: <i>(Y/N)</i>	Date: <i>11-11-13</i>	Printed Name: _____
TURN AROUND TIME	DATA DELIVERABLE REQUIRED	RECEIVED BY: <i>(Signature)</i>	Date: _____
<input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> RUSH	<input type="checkbox"/> SAME DAY <input type="checkbox"/> NEXT DAY	Signature: _____	2. Signature: _____
<input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS	<input type="checkbox"/> HARD COPY <input type="checkbox"/> PDF	Printed Name: <i>D.J.P.</i>	Printed Name: _____
	<input type="checkbox"/> GEOTRACKER (GLOBAL ID) <input type="checkbox"/> OTHER (PLEASE SPECIFY)	Date: <i>11/12/13</i>	Date: _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



# American Environmental Testing Laboratory Inc.

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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/12/2013  
Date Reported 12/03/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71294	11/12/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 11/12/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71294.01	E111113	11/11/2013	Gaseous	1
71294.02	W111113	11/11/2013	Gaseous	1
Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	11/19/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71294	11/12/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/18/2013			
Preparation Method			3540C			
Date Analyzed			11/20/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		88.4			



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71294	11/12/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1

Our Lab I.D.			71294.01	71294.02		
Client Sample I.D.			E111113	W111113		
Date Sampled			11/11/2013	11/11/2013		
Date Prepared			11/18/2013	11/18/2013		
Preparation Method			3540C	3540C		
Date Analyzed			11/20/2013	11/20/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	4.56	4.51		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	0.505	0.359J		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	0.651	0.585		
Benzo(b)fluoranthene	0.05	0.10	0.511	0.470		
Benzo(g,h,i)perylene	0.05	0.10	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	0.272	0.231		
Chrysene	0.05	0.10	ND	ND		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	2.84	2.53		
Fluorene	0.05	0.10	8.92	7.97		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Naphthalene	0.20	0.40	110	103		
Phenanthrene	0.05	0.10	21.8	16.1		
Pyrene	0.05	0.10	3.00	2.55		
Sample Volume (in cubic meters)	5	5	129	125		
Our Lab I.D.			71294.01	71294.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		119	120		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71294	11/12/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1; LCS: Blank; LCS Prepared: 11/18/2013; LCS Analyzed: 11/20/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	586	117	500	553	111	5.26	60-140	<40	
Acenaphthylene	1,000	1,060	106	1,000	998	99.8	6.03	70-130	<30	
Anthracene	50.0	56.5	113	50.0	51.5	103	9.26	70-130	<30	
Benzo(a)anthracene	50.0	62.4	125	50.0	57.7	115	8.33	70-130	<30	
Benzo(a)pyrene	50.0	53.7	107	50.0	50.8	102	4.78	70-130	<30	
Benzo(b)fluoranthene	100	114	114	100	108	108	5.41	70-130	<30	
Benzo(g,h,i)perylene	100	78.7	78.7	100	79.0	79.0	<1	70-130	<30	
Benzo(k)fluoranthene	50.0	59.0	118	50.0	55.8	112	5.22	70-130	<30	
Chrysene	50.0	62.5	125	50.0	56.9	114	9.21	70-130	<30	
Dibenzo(a,h)anthracene	100	124	124	100	117	117	5.81	70-130	<30	
Fluoranthene	100	119	119	100	112	112	6.06	70-130	<30	
Fluorene	100	103	103	100	96.7	96.7	6.31	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	62.0	124	50.0	56.8	114	8.40	70-130	<30	
Naphthalene	500	552	110	500	514	103	6.57	60-140	<40	
Phenanthrene	50.0	60.1	120	50.0	56.8	114	5.13	70-130	<30	
Pyrene	50.0	57.4	115	50.0	52.2	104	10.0	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	948	119	800	952	119	<1	75-125	<20	



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/13/2013  
Date Reported 12/03/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71313	11/13/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





American Environmental Testing Laboratory Inc.  
 2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
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# CHAIN OF CUSTODY RECORD

No 83029

71313

Page 1 of 1

COMPANY: SCGC PROJECT MANAGER: K. Chesne

COMPANY ADDRESS: 555 W 5th St LA PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

PROJECT NAME: Former Alameda MGP PROJECT #: \_\_\_\_\_

SITE NAME AND ADDRESS: 732 S. Alameda St. Los Angeles CA. PO #: \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	E 11213 71313.01	11-12-13	16:30	AIR	PUF	—
2	W 11213 71313.02	11-12-13	16:35	AIR	PUF	—
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

TEST INSTRUCTIONS & COMMENTS:  
 V = 130 M  
 V = 126 M

AETL JOB No. 71313

ANALYSIS REQUESTED

1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

RELINQUISHED BY: 1. Signature: AST Printed Name: Abbot Sakhyar Date: 11-13-13 Time: 0905

RECEIVED BY: 1. Signature: Thomas LeBurse Printed Name: Thomas LeBurse Date: 11-13-13 Time: 0915

RELINQUISHED BY: 2. Signature: Thomas LeBurse Printed Name: Thomas LeBurse Date: 11-13-13 Time: 1015

RECEIVED BY: 2. Signature: Thomas LeBurse Printed Name: Thomas LeBurse Date: 11-13-13 Time: 1015

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: 2 PROPERLY COOLED: Y/N/NA

CUSTODY SEALS: Y/N/NA SAMPLES INTACT: Y/N/NA

RECEIVED IN GOOD COND.: Y/N SAMPLES ACCEPTED: Y/N

TURN AROUND TIME: DATA DELIVERABLE REQUIRED

NORMAL  RUSH  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

HARD COPY  PDF  GEOTRACKER (GLOBAL ID)  OTHER (PLEASE SPECIFY)

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/13/2013  
Date Reported 12/03/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71313	11/13/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 11/13/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71313.01	E111213	11/12/2013	Gaseous	1
71313.02	W111213	11/12/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	11/20/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71313	11/13/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/18/2013			
Preparation Method			3540C			
Date Analyzed			11/20/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		88.4			



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## ANALYTICAL RESULTS

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Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71313	11/13/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1

Our Lab I.D.			71313.01	71313.02		
Client Sample I.D.			E111213	W111213		
Date Sampled			11/12/2013	11/12/2013		
Date Prepared			11/18/2013	11/18/2013		
Preparation Method			3540C	3540C		
Date Analyzed			11/20/2013	11/20/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	11.5	12.6		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	1.16	1.27		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	1.43	1.30		
Benzo(b)fluoranthene	0.05	0.10	1.10	1.06		
Benzo(g,h,i)perylene	0.05	0.10	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	0.579	0.511		
Chrysene	0.05	0.10	ND	ND		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	5.40	5.48		
Fluorene	0.05	0.10	16.4	17.8		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Naphthalene	0.20	0.40	241	279		
Phenanthrene	0.05	0.10	29.8	30.3		
Pyrene	0.05	0.10	6.23	5.42		
Sample Volume (in cubic meters)	5	5	130	126		
Our Lab I.D.			71313.01	71313.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		116	119		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71313	11/13/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1; LCS: Blank; LCS Prepared: 11/18/2013; LCS Analyzed: 11/20/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	586	117	500	553	111	5.26	60-140	<40	
Acenaphthylene	1,000	1,060	106	1,000	998	99.8	6.03	70-130	<30	
Anthracene	50.0	56.5	113	50.0	51.5	103	9.26	70-130	<30	
Benzo(a)anthracene	50.0	62.4	125	50.0	57.7	115	8.33	70-130	<30	
Benzo(a)pyrene	50.0	53.7	107	50.0	50.8	102	4.78	70-130	<30	
Benzo(b)fluoranthene	100	114	114	100	108	108	5.41	70-130	<30	
Benzo(g,h,i)perylene	100	78.7	78.7	100	79.0	79.0	<1	70-130	<30	
Benzo(k)fluoranthene	50.0	59.0	118	50.0	55.8	112	5.22	70-130	<30	
Chrysene	50.0	62.5	125	50.0	56.9	114	9.21	70-130	<30	
Dibenzo(a,h)anthracene	100	124	124	100	117	117	5.81	70-130	<30	
Fluoranthene	100	119	119	100	112	112	6.06	70-130	<30	
Fluorene	100	103	103	100	96.7	96.7	6.31	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	62.0	124	50.0	56.8	114	8.40	70-130	<30	
Naphthalene	500	552	110	500	514	103	6.57	60-140	<40	
Phenanthrene	50.0	60.1	120	50.0	56.8	114	5.13	70-130	<30	
Pyrene	50.0	57.4	115	50.0	52.2	104	10.0	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	948	119	800	952	119	<1	75-125	<20	



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- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
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- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

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555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/14/2013  
Date Reported 12/03/2013

Telephone: (213)244-5832  
Attention: Kathleen Chyene

Job Number	Order Date	Client
71334	11/14/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





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# CHAIN OF CUSTODY RECORD

No. 83030

AETL JOB No. 71334

Page 1 of 1

COMPANY <b>SCGC</b>		PROJECT MANAGER <b>K. Choyne</b>		PHONE		TEST INSTRUCTIONS & COMMENTS	
COMPANY ADDRESS <b>555 W 5th St LA</b>		LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
PROJECT NAME <b>Former Alameda MGP</b>							
SITE NAME AND ADDRESS <b>F32 Alameda St. Los Angeles CA.</b>							
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	
E111313	71334.01	11-13-13	16:30	AIR	PUF	—	V=129 M <sup>3</sup>
W111313	71334.02	11-13-13	16:35	AIR	PUF	—	V=126 M <sup>3</sup>

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY			RELINQUISHED BY: 1.			RELINQUISHED BY: 2.			RELINQUISHED BY: 3.		
TOTAL NUMBER OF CONTAINERS	2	PROPERLY COOLED	<input checked="" type="radio"/> Y / <input type="radio"/> N / <input type="radio"/> NA	Signature:	<i>[Signature]</i>	Signature:	<i>[Signature]</i>	Signature:	<i>[Signature]</i>	Signature:	<i>[Signature]</i>
CUSTODY SEALS	<input checked="" type="radio"/> Y / <input type="radio"/> N / <input type="radio"/> NA	SAMPLES INTACT	<input checked="" type="radio"/> Y / <input type="radio"/> N / <input type="radio"/> NA	Printed Name:	ASHOT SHARIF	Printed Name:	<i>[Signature]</i>	Printed Name:	<i>[Signature]</i>	Printed Name:	<i>[Signature]</i>
RECEIVED IN GOOD COND.	<input checked="" type="radio"/> Y / <input type="radio"/> N	SAMPLES ACCEPTED	<input checked="" type="radio"/> Y / <input type="radio"/> N	Date:	11-14-13	Date:	11-14-13	Date:	11-14-13	Date:	11-14-13
TURN AROUND TIME	<input checked="" type="checkbox"/> SAME DAY <input type="checkbox"/> NEXT DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS	DATA DELIVERABLE REQUIRED	<input type="checkbox"/> HARD COPY <input type="checkbox"/> PDF <input type="checkbox"/> GEOTRACKER (GLOBAL ID) <input type="checkbox"/> OTHER (PLEASE SPECIFY)	RECEIVED BY:	<i>[Signature]</i>	RECEIVED BY:	<i>[Signature]</i>	RECEIVED BY:	<i>[Signature]</i>	RECEIVED BY:	<i>[Signature]</i>
<input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> RUSH				Signature:	<i>[Signature]</i>	Signature:	<i>[Signature]</i>	Signature:	<i>[Signature]</i>	Signature:	<i>[Signature]</i>
				Printed Name:	<i>[Signature]</i>	Printed Name:	<i>[Signature]</i>	Printed Name:	<i>[Signature]</i>	Printed Name:	<i>[Signature]</i>
				Date:	11/14-13	Date:	11/14-13	Date:	11/14-13	Date:	11/14-13
				Time:	1010	Time:	1010	Time:	1045	Time:	1045

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/14/2013  
Date Reported 12/03/2013

Telephone: (213)244-5832  
Attention: Kathleen Chyene

Job Number	Order Date	Client
71334	11/14/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 11/14/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71334.01	E111313	11/13/2013	Gaseous	1
71334.02	W111313	11/13/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	11/21/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Chyene

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71334	11/14/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/18/2013			
Preparation Method			3540C			
Date Analyzed			11/20/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		88.4			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Chyene

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71334	11/14/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1

Our Lab I.D.			71334.01	71334.02		
Client Sample I.D.			E111313	W111313		
Date Sampled			11/13/2013	11/13/2013		
Date Prepared			11/18/2013	11/18/2013		
Preparation Method			3540C	3540C		
Date Analyzed			11/20/2013	11/20/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	8.31	8.57		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	1.16	1.05		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	1.08	3.39		
Benzo(b)fluoranthene	0.05	0.10	0.819	2.38		
Benzo(g,h,i)perylene	0.05	0.10	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	0.417	1.15		
Chrysene	0.05	0.10	ND	ND		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	5.80	9.60		
Fluorene	0.05	0.10	11.8	11.6		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Naphthalene	0.20	0.40	111	115		
Phenanthrene	0.05	0.10	31.5	40.3		
Pyrene	0.05	0.10	5.92	10.7		
Sample Volume (in cubic meters)	5	5	129	126		
Our Lab I.D.			71334.01	71334.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		122	118		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Chyene

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71334	11/14/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1; LCS: Blank; LCS Prepared: 11/18/2013; LCS Analyzed: 11/20/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	586	117	500	553	111	5.26	60-140	<40	
Acenaphthylene	1,000	1,060	106	1,000	998	99.8	6.03	70-130	<30	
Anthracene	50.0	56.5	113	50.0	51.5	103	9.26	70-130	<30	
Benzo(a)anthracene	50.0	62.4	125	50.0	57.7	115	8.33	70-130	<30	
Benzo(a)pyrene	50.0	53.7	107	50.0	50.8	102	4.78	70-130	<30	
Benzo(b)fluoranthene	100	114	114	100	108	108	5.41	70-130	<30	
Benzo(g,h,i)perylene	100	78.7	78.7	100	79.0	79.0	<1	70-130	<30	
Benzo(k)fluoranthene	50.0	59.0	118	50.0	55.8	112	5.22	70-130	<30	
Chrysene	50.0	62.5	125	50.0	56.9	114	9.21	70-130	<30	
Dibenzo(a,h)anthracene	100	124	124	100	117	117	5.81	70-130	<30	
Fluoranthene	100	119	119	100	112	112	6.06	70-130	<30	
Fluorene	100	103	103	100	96.7	96.7	6.31	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	62.0	124	50.0	56.8	114	8.40	70-130	<30	
Naphthalene	500	552	110	500	514	103	6.57	60-140	<40	
Phenanthrene	50.0	60.1	120	50.0	56.8	114	5.13	70-130	<30	
Pyrene	50.0	57.4	115	50.0	52.2	104	10.0	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	948	119	800	952	119	<1	75-125	<20	



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/15/2013  
Date Reported 12/03/2013

Telephone: (213)244-3292  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71361	11/15/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





American Environmental Testing Laboratory Inc.  
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CHAIN OF CUSTODY RECORD

No 83031

AETL JOB No. 71361

Page 1 of 1

COMPANY: S C G C PROJECT MANAGER: K. Chesne  
 COMPANY ADDRESS: 555 W 5th St LA PHONE:  
 PROJECT NAME: Former Alameda MGP PROJECT # FAX:  
 SITE NAME AND ADDRESS: 732 Alameda St PO #  
 Los Angeles CA

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS
							1	2	
E 111413	71361.01	11-14-13	16:30	AIR	P4F	—			V = 130 ml
W 111413	71361.02	11-14-13	16:34	AIR	P4F	—			V = 126 ml

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: 2 PROPERLY COOLED:  Y  N / NA  
 CUSTODY SEALS:  Y  N / NA SAMPLES INTACT:  Y  N / NA  
 RECEIVED IN GOOD COND.:  Y  N SAMPLES ACCEPTED:  Y  N

TURN AROUND TIME: DATA DELIVERABLE REQUIRED:  HARD COPY,  PDF,  GEOTRACKER (GLOBAL ID),  OTHER (PLEASE SPECIFY)

NORMAL  RUSH  SAME DAY,  NEXT DAY,  2 DAYS,  3 DAYS

RELINQUISHED BY SAMPLER: Signature: [Signature], Printed Name: AIR & SHEDS, Date: 11-15-13, Time: 7A:20  
 RECEIVED BY: Signature: [Signature], Printed Name: S.C.G.C., Date: 11-15-13, Time: 12:20

RELINQUISHED BY: Signature: [Signature], Printed Name: [Signature], Date: 11-15-13, Time: 1415  
 RECEIVED BY LABORATORY: Signature: AETL, Printed Name: AETL, Date: 11-15-13, Time: 1415

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/15/2013  
Date Reported 12/03/2013

Telephone: (213)244-3292  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71361	11/15/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 11/15/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71361.01	E111413	11/14/2013	Gaseous	1
71361.02	W111413	11/14/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	11/22/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-3292

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71361	11/15/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/18/2013			
Preparation Method			3540C			
Date Analyzed			11/20/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		88.4			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-3292

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71361	11/15/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1

Our Lab I.D.			71361.01	71361.02		
Client Sample I.D.			E111413	W111413		
Date Sampled			11/14/2013	11/14/2013		
Date Prepared			11/18/2013	11/18/2013		
Preparation Method			3540C	3540C		
Date Analyzed			11/20/2013	11/20/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	6.57	7.92		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	1.06	1.06		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	0.612	5.48		
Benzo(b)fluoranthene	0.05	0.10	0.463	3.86		
Benzo(g,h,i)perylene	0.05	0.10	ND	5.67		
Benzo(k)fluoranthene	0.10	0.20	0.237	2.07		
Chrysene	0.05	0.10	ND	ND		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	5.07	11.7		
Fluorene	0.05	0.10	9.79	10.8		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	6.06		
Naphthalene	0.20	0.40	91.0	115		
Phenanthrene	0.05	0.10	30.9	28.3		
Pyrene	0.05	0.10	4.47	13.2		
Sample Volume (in cubic meters)	5	5	130	126		
Our Lab I.D.			71361.01	71361.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		121	120		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-3292

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71361	11/15/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1; LCS: Blank; LCS Prepared: 11/18/2013; LCS Analyzed: 11/20/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	586	117	500	553	111	5.26	60-140	<40	
Acenaphthylene	1,000	1,060	106	1,000	998	99.8	6.03	70-130	<30	
Anthracene	50.0	56.5	113	50.0	51.5	103	9.26	70-130	<30	
Benzo(a)anthracene	50.0	62.4	125	50.0	57.7	115	8.33	70-130	<30	
Benzo(a)pyrene	50.0	53.7	107	50.0	50.8	102	4.78	70-130	<30	
Benzo(b)fluoranthene	100	114	114	100	108	108	5.41	70-130	<30	
Benzo(g,h,i)perylene	100	78.7	78.7	100	79.0	79.0	<1	70-130	<30	
Benzo(k)fluoranthene	50.0	59.0	118	50.0	55.8	112	5.22	70-130	<30	
Chrysene	50.0	62.5	125	50.0	56.9	114	9.21	70-130	<30	
Dibenzo(a,h)anthracene	100	124	124	100	117	117	5.81	70-130	<30	
Fluoranthene	100	119	119	100	112	112	6.06	70-130	<30	
Fluorene	100	103	103	100	96.7	96.7	6.31	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	62.0	124	50.0	56.8	114	8.40	70-130	<30	
Naphthalene	500	552	110	500	514	103	6.57	60-140	<40	
Phenanthrene	50.0	60.1	120	50.0	56.8	114	5.13	70-130	<30	
Pyrene	50.0	57.4	115	50.0	52.2	104	10.0	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	948	119	800	952	119	<1	75-125	<20	



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

- MS: Matrix Spike
- MS DU: Matrix Spike Duplicate
- ND: Analyte was not detected in the sample at or above MDL.
- PQL: Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
- Recov: Recovered concentration in the sample.
- RPD: Relative Percent Difference
-



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/18/2013  
Date Reported 12/03/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71368	11/18/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





**American Environmental Testing Laboratory Inc.**  
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# CHAIN OF CUSTODY RECORD

No 83033

AETL JOB No. **71368**

Page \_\_\_ of \_\_\_

COMPANY <b>SEGC</b>		PROJECT MANAGER <b>K. Cheyne</b>	
COMPANY ADDRESS <b>555 W 5th Street</b>		PHONE	FAX
PROJECT NAME <b>Former Alameda MBP</b>		PROJECT #	
SITE NAME AND ADDRESS <b>732 S. Alameda St Los Angeles</b>		PO #	

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1 E-111513	71368.01	11-15-13	16:32	AIR	PuF	-
2 W-111513	71368.02	"	16:35	"	"	-
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
1			
2			
3			V= 134 W= 2
4			V= 130 W= 3
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY			RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
TOTAL NUMBER OF CONTAINERS	2	PROPERLY COOLED (Y/N/NA)	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
CUSTODY SEALS (Y/N/NA)		SAMPLES INTACT (Y/N/NA)	Printed Name: <i>[Name]</i>	Printed Name: <i>[Name]</i>	Printed Name: <i>[Name]</i>
RECEIVED IN GOOD COND. (Y/N)		SAMPLES ACCEPTED (Y/N)	Date: 11-18-13	Date: 11/18/13	Date: 11/18/13
TURN AROUND TIME		DATA DELIVERABLE REQUIRED	RECEIVED BY:	RECEIVED BY:	RECEIVED BY:
<input checked="" type="checkbox"/> NORMAL	<input type="checkbox"/> RUSH	<input type="checkbox"/> HARD COPY	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
<input type="checkbox"/> SAME DAY	<input type="checkbox"/> NEXT DAY	<input type="checkbox"/> PDF	Printed Name: <i>[Name]</i>	Printed Name: <i>[Name]</i>	Printed Name: <i>[Name]</i>
<input type="checkbox"/> 2 DAYS	<input type="checkbox"/> 3 DAYS	<input type="checkbox"/> GEOTRACKER (GLOBAL ID)	Date: 11-18-13	Date: 11/18/13	Date: 11/18/13
		<input type="checkbox"/> OTHER (PLEASE SPECIFY)	Time: 1020	Time: 1052	Time: 1052

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/18/2013  
Date Reported 12/03/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71368	11/18/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 11/18/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71368.01	E111513	11/15/2013	Gaseous	1
71368.02	W111513	11/15/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	11/25/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71368	11/18/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/18/2013			
Preparation Method			3540C			
Date Analyzed			11/20/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		88.4			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71368	11/18/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1

Our Lab I.D.			71368.01	71368.02		
Client Sample I.D.			E111513	W111513		
Date Sampled			11/15/2013	11/15/2013		
Date Prepared			11/18/2013	11/18/2013		
Preparation Method			3540C	3540C		
Date Analyzed			11/20/2013	11/20/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	3.32	3.76		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	0.411	0.373J		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	0.319	0.968		
Benzo(b)fluoranthene	0.05	0.10	0.246	0.690		
Benzo(g,h,i)perylene	0.05	0.10	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	0.122J	0.358		
Chrysene	0.05	0.10	ND	ND		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	2.09	2.96		
Fluorene	0.05	0.10	5.14	5.64		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Naphthalene	0.20	0.40	54.2	65.8		
Phenanthrene	0.05	0.10	15.0	11.4		
Pyrene	0.05	0.10	2.26	3.56		
Sample Volume (in cubic meters)	5	5	134	130		
Our Lab I.D.			71368.01	71368.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		117	121		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71368	11/18/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 111813IB1; LCS: Blank; LCS Prepared: 11/18/2013; LCS Analyzed: 11/20/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	586	117	500	553	111	5.26	60-140	<40	
Acenaphthylene	1,000	1,060	106	1,000	998	99.8	6.03	70-130	<30	
Anthracene	50.0	56.5	113	50.0	51.5	103	9.26	70-130	<30	
Benzo(a)anthracene	50.0	62.4	125	50.0	57.7	115	8.33	70-130	<30	
Benzo(a)pyrene	50.0	53.7	107	50.0	50.8	102	4.78	70-130	<30	
Benzo(b)fluoranthene	100	114	114	100	108	108	5.41	70-130	<30	
Benzo(g,h,i)perylene	100	78.7	78.7	100	79.0	79.0	<1	70-130	<30	
Benzo(k)fluoranthene	50.0	59.0	118	50.0	55.8	112	5.22	70-130	<30	
Chrysene	50.0	62.5	125	50.0	56.9	114	9.21	70-130	<30	
Dibenzo(a,h)anthracene	100	124	124	100	117	117	5.81	70-130	<30	
Fluoranthene	100	119	119	100	112	112	6.06	70-130	<30	
Fluorene	100	103	103	100	96.7	96.7	6.31	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	62.0	124	50.0	56.8	114	8.40	70-130	<30	
Naphthalene	500	552	110	500	514	103	6.57	60-140	<40	
Phenanthrene	50.0	60.1	120	50.0	56.8	114	5.13	70-130	<30	
Pyrene	50.0	57.4	115	50.0	52.2	104	10.0	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	948	119	800	952	119	<1	75-125	<20	



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/19/2013  
Date Reported 12/04/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71376	11/19/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director







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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/19/2013  
Date Reported 12/04/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71376	11/19/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 11/19/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71376.01	E111813	11/18/2013	Gaseous	1
71376.02	W111813	11/18/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	11/26/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71376	11/19/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 112513IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/25/2013			
Preparation Method			3540C			
Date Analyzed			11/26/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		98.6			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71376	11/19/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 112513IB1

Our Lab I.D.			71376.01	71376.02		
Client Sample I.D.			E111813	W111813		
Date Sampled			11/18/2013	11/18/2013		
Date Prepared			11/25/2013	11/25/2013		
Preparation Method			3540C	3540C		
Date Analyzed			11/26/2013	11/26/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	4.58	3.97		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	0.595	ND		
Benzo(a)anthracene	0.05	0.10	2.40	0.245		
Benzo(a)pyrene	0.05	0.10	5.03	1.16		
Benzo(b)fluoranthene	0.05	0.10	3.55	0.851		
Benzo(g,h,i)perylene	0.05	0.10	6.18	0.907		
Benzo(k)fluoranthene	0.10	0.20	1.91	0.470		
Chrysene	0.05	0.10	4.30	1.08		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	10.1	3.40		
Fluorene	0.05	0.10	7.38	6.43		
Indeno(1,2,3-cd)pyrene	0.10	0.20	5.40	0.767		
Naphthalene	0.20	0.40	109	92.6		
Phenanthrene	0.05	0.10	17.8	12.1		
Pyrene	0.05	0.10	12.8	3.94		
Sample Volume (in cubic meters)	5	5	129	126		
Our Lab I.D.			71376.01	71376.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		123	122		



# American Environmental Testing Laboratory Inc.

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 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71376	11/19/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 112513IB1; LCS: Blank; LCS Prepared: 11/25/2013; LCS Analyzed: 11/26/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	559	112	500	580	116	3.51	60-140	<40	
Acenaphthylene	1,000	1,010	101	1,000	1,040	104	2.93	70-130	<30	
Anthracene	50.0	53.1	106	50.0	55.5	111	4.61	70-130	<30	
Benzo(a)anthracene	50.0	57.7	115	50.0	60.7	121	5.08	70-130	<30	
Benzo(a)pyrene	50.0	53.6	107	50.0	55.7	111	3.67	70-130	<30	
Benzo(b)fluoranthene	100	110	110	100	114	114	3.57	70-130	<30	
Benzo(g,h,i)perylene	100	89.8	89.8	100	84.4	84.4	6.20	70-130	<30	
Benzo(k)fluoranthene	50.0	57.1	114	50.0	59.0	118	3.45	70-130	<30	
Chrysene	50.0	57.9	116	50.0	60.4	121	4.22	70-130	<30	
Dibenzo(a,h)anthracene	100	122	122	100	122	122	<1	70-130	<30	
Fluoranthene	100	116	116	100	120	120	3.39	70-130	<30	
Fluorene	100	93.7	93.7	100	97.6	97.6	4.08	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	60.1	120	50.0	56.1	112	6.90	70-130	<30	
Naphthalene	500	534	107	500	545	109	1.85	60-140	<40	
Phenanthrene	50.0	57.5	115	50.0	59.2	118	2.58	70-130	<30	
Pyrene	50.0	54.0	108	50.0	56.0	112	3.64	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	943	118	800	952	119	<1	75-125	<20	



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/20/2013  
Date Reported 12/04/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71389	11/20/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





American Environmental Testing Laboratory Inc.  
 2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
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# CHAIN OF CUSTODY RECORD

No 83035

Page 1 of 1

COMPANY: **SLGC** PROJECT MANAGER: **K. Cheyne**  
 COMPANY ADDRESS: **555 W 5th St LA** PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
 PROJECT NAME: **Former Alameda MGP** PROJECT #: \_\_\_\_\_  
 SITE NAME AND ADDRESS: **732 Alameda St Los Angeles CA** PO #: \_\_\_\_\_

ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
1	X	V = 130	m <sup>3</sup>
2	X	V = 127	m <sup>3</sup>
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	RELINQUISHED BY		
							SAMPLER	1.	2.
111913 E	71389-01	11-19-13	16:20	AIR	P4F	—	Signature: <i>ASP</i>	Signature: _____	Signature: _____
111913 W	71389-02	11-19-13	16:25	AIR	P4F	—	Printed Name: <b>Asst Sakhya</b>	Printed Name: _____	Printed Name: _____
							Date: <b>11-20-13</b>	Date: _____	Date: _____
							Time: <b>1010</b>	Time: _____	Time: _____
							RECEIVED BY: _____	RECEIVED BY: _____	RECEIVED BY: _____
							Signature: _____	Signature: _____	Signature: _____
							Printed Name: <b>Sakhya</b>	Printed Name: _____	Printed Name: _____
							Date: <b>11-20-13</b>	Date: _____	Date: <b>11-20-13</b>
							Time: <b>1010</b>	Time: _____	Time: <b>1130</b>
							LABORATORY: <b>AETL</b>	LABORATORY: _____	LABORATORY: <b>AETL</b>
							Signature: _____	Signature: _____	Signature: _____
							Printed Name: _____	Printed Name: _____	Printed Name: <b>Debra Claude</b>
							Date: <b>11-20-13</b>	Date: _____	Date: <b>11/20/13</b>
							Time: <b>1010</b>	Time: _____	Time: <b>1130</b>

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: **2** PROPERLY COOLED: **Y/N/NA**

CUSTOMY SEALS: **Y/N/NA** SAMPLES INTACT: **Y/N/NA**

RECEIVED IN GOOD COND.: **Y/N** SAMPLES ACCEPTED: **Y/N**

TURN AROUND TIME: \_\_\_\_\_ DATA DELIVERABLE REQUIRED: \_\_\_\_\_

NORMAL  RUSH  SAME DAY  NEXT DAY

HARD COPY  PDF

GEOTRACKER (GLOBAL ID)  OTHER (PLEASE SPECIFY) \_\_\_\_\_

2 DAYS  3 DAYS

RELINQUISHED BY: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/20/2013  
Date Reported 12/04/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71389	11/20/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 11/20/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71389.01	E111913	11/19/2013	Gaseous	1
71389.02	W111913	11/19/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	11/27/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71389	11/20/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 112513IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/25/2013			
Preparation Method			3540C			
Date Analyzed			11/26/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		98.6			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71389	11/20/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 112513IB1

Our Lab I.D.			71389.01	71389.02		
Client Sample I.D.			E111913	W111913		
Date Sampled			11/19/2013	11/19/2013		
Date Prepared			11/25/2013	11/25/2013		
Preparation Method			3540C	3540C		
Date Analyzed			11/27/2013	11/27/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	3.20	2.86		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	0.535	0.317J		
Benzo(a)anthracene	0.05	0.10	0.416	ND		
Benzo(a)pyrene	0.05	0.10	1.31	0.936		
Benzo(b)fluoranthene	0.05	0.10	1.03	0.691		
Benzo(g,h,i)perylene	0.05	0.10	1.88	ND		
Benzo(k)fluoranthene	0.10	0.20	0.528	0.355		
Chrysene	0.05	0.10	1.26	1.03		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	3.55	2.52		
Fluorene	0.05	0.10	5.88	4.59		
Indeno(1,2,3-cd)pyrene	0.10	0.20	1.36	ND		
Naphthalene	0.20	0.40	85.9	60.9		
Phenanthrene	0.05	0.10	12.3	10.9		
Pyrene	0.05	0.10	4.40	3.14		
Sample Volume (in cubic meters)	5	5	130	127		
Our Lab I.D.			71389.01	71389.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		120	123		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71389	11/20/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 112513IB1; LCS: Blank; LCS Prepared: 11/25/2013; LCS Analyzed: 11/26/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	559	112	500	580	116	3.51	60-140	<40	
Acenaphthylene	1,000	1,010	101	1,000	1,040	104	2.93	70-130	<30	
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Benzo(a)anthracene	50.0	57.7	115	50.0	60.7	121	5.08	70-130	<30	
Benzo(a)pyrene	50.0	53.6	107	50.0	55.7	111	3.67	70-130	<30	
Benzo(b)fluoranthene	100	110	110	100	114	114	3.57	70-130	<30	
Benzo(g,h,i)perylene	100	89.8	89.8	100	84.4	84.4	6.20	70-130	<30	
Benzo(k)fluoranthene	50.0	57.1	114	50.0	59.0	118	3.45	70-130	<30	
Chrysene	50.0	57.9	116	50.0	60.4	121	4.22	70-130	<30	
Dibenzo(a,h)anthracene	100	122	122	100	122	122	<1	70-130	<30	
Fluoranthene	100	116	116	100	120	120	3.39	70-130	<30	
Fluorene	100	93.7	93.7	100	97.6	97.6	4.08	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	60.1	120	50.0	56.1	112	6.90	70-130	<30	
Naphthalene	500	534	107	500	545	109	1.85	60-140	<40	
Phenanthrene	50.0	57.5	115	50.0	59.2	118	2.58	70-130	<30	
Pyrene	50.0	54.0	108	50.0	56.0	112	3.64	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	943	118	800	952	119	<1	75-125	<20	



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### Data Qualifiers and Descriptors

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- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/21/2013  
Date Reported 12/04/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71425	11/21/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





American Environmental Testing Laboratory Inc.  
 2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
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# CHAIN OF CUSTODY RECORD

No 84523

Page 1 of 1

AETL JOB No. 71425

COMPANY: **SCGC** PROJECT MANAGER: **K. Cheyre**

COMPANY ADDRESS: **555 W 5th St LA** PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

PROJECT NAME: **Former Alameda MGP** PROJECT #: \_\_\_\_\_

SITE NAME AND ADDRESS: **732 Alameda St Los Angeles CA** PO #: \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	E 112013	71425-01	11-20-13	AIR	PUF	—
2	W 112013	71425-02	11-20-13	AIR	PUF	—
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
MI-0-13	
X	V = 129 m <sup>3</sup>
X	V = 127 m <sup>3</sup>

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY		RELINQUISHED BY SAMPLER:	RELINQUISHED BY:
TOTAL NUMBER OF CONTAINERS	PROPERLY COOLED Y/N/NA	Signature: <b>ASD</b>	Signature: _____
CUSTODY SEALS Y/N/NA	SAMPLES INTACT Y/N/NA	Printed Name: <b>Ashad Sukhyan</b>	Printed Name: _____
RECEIVED IN GOOD COND. Y/N	SAMPLES ACCEPTED Y/N	Date: <b>11-21-13</b> Time: <b>11:35</b>	Date: _____ Time: _____
TURN AROUND TIME	DATA DELIVERABLE REQUIRED	RECEIVED BY: 1.	RECEIVED BY: LABORATORY
<input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> RUSH	<input type="checkbox"/> SAME DAY <input type="checkbox"/> NEXT DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS	Signature: _____	Signature: _____
<input type="checkbox"/> HARD COPY <input type="checkbox"/> PDF <input type="checkbox"/> GEOTRACKER (GLOBAL ID) <input type="checkbox"/> OTHER (PLEASE SPECIFY)		Printed Name: <b>CHAMON RAJIVAN</b>	Printed Name: _____
		Date: <b>11-21-13</b> Time: <b>17:00</b>	Date: _____ Time: _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



# American Environmental Testing Laboratory Inc.

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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/21/2013  
Date Reported 12/04/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71425	11/21/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 11/21/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71425.01	E112013	11/20/2013	Gaseous	1
71425.02	W112013	11/20/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	11/28/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71425	11/21/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 112513IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/25/2013			
Preparation Method			3540C			
Date Analyzed			11/26/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		98.6			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71425	11/21/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 112513IB1

Our Lab I.D.			71425.01	71425.02		
Client Sample I.D.			E112013	W112013		
Date Sampled			11/20/2013	11/20/2013		
Date Prepared			11/25/2013	11/25/2013		
Preparation Method			3540C	3540C		
Date Analyzed			11/27/2013	11/27/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	4.16	4.10		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	0.526	0.379J		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	1.02	0.613		
Benzo(b)fluoranthene	0.05	0.10	0.753	0.515		
Benzo(g,h,i)perylene	0.05	0.10	ND	0.484		
Benzo(k)fluoranthene	0.10	0.20	0.400	0.246		
Chrysene	0.05	0.10	1.46	0.933		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	2.98	2.15		
Fluorene	0.05	0.10	6.78	5.58		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	0.547		
Naphthalene	0.20	0.40	105	87.3		
Phenanthrene	0.05	0.10	12.0	9.55		
Pyrene	0.05	0.10	4.06	3.71		
Sample Volume (in cubic meters)	5	5	129	127		
Our Lab I.D.			71425.01	71425.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		119	118		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71425	11/21/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 112513IB1; LCS: Blank; LCS Prepared: 11/25/2013; LCS Analyzed: 11/26/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	559	112	500	580	116	3.51	60-140	<40	
Acenaphthylene	1,000	1,010	101	1,000	1,040	104	2.93	70-130	<30	
Anthracene	50.0	53.1	106	50.0	55.5	111	4.61	70-130	<30	
Benzo(a)anthracene	50.0	57.7	115	50.0	60.7	121	5.08	70-130	<30	
Benzo(a)pyrene	50.0	53.6	107	50.0	55.7	111	3.67	70-130	<30	
Benzo(b)fluoranthene	100	110	110	100	114	114	3.57	70-130	<30	
Benzo(g,h,i)perylene	100	89.8	89.8	100	84.4	84.4	6.20	70-130	<30	
Benzo(k)fluoranthene	50.0	57.1	114	50.0	59.0	118	3.45	70-130	<30	
Chrysene	50.0	57.9	116	50.0	60.4	121	4.22	70-130	<30	
Dibenzo(a,h)anthracene	100	122	122	100	122	122	<1	70-130	<30	
Fluoranthene	100	116	116	100	120	120	3.39	70-130	<30	
Fluorene	100	93.7	93.7	100	97.6	97.6	4.08	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	60.1	120	50.0	56.1	112	6.90	70-130	<30	
Naphthalene	500	534	107	500	545	109	1.85	60-140	<40	
Phenanthrene	50.0	57.5	115	50.0	59.2	118	2.58	70-130	<30	
Pyrene	50.0	54.0	108	50.0	56.0	112	3.64	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	943	118	800	952	119	<1	75-125	<20	



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/22/2013  
Date Reported 12/04/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71437	11/22/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 ambient air samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director







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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/22/2013  
Date Reported 12/04/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71437	11/22/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 11/22/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71437.01	E112113	11/21/2013	Gaseous	1
71437.02	W112113	11/21/2013	Gaseous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
TO-13 ^ NG/M3	11/29/2013	2	Normal	ng/m3

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71437	11/22/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 112513IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/25/2013			
Preparation Method			3540C			
Date Analyzed			11/26/2013			
Matrix			Gaseous			
Units			ng/m3			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Acenaphthene	0.02	0.04	ND			
Acenaphthylene	0.01	0.02	ND			
Anthracene	0.04	0.08	ND			
Benzo(a)anthracene	0.01	0.02	ND			
Benzo(a)pyrene	0.01	0.02	ND			
Benzo(b)fluoranthene	0.01	0.02	ND			
Benzo(g,h,i)perylene	0.01	0.02	ND			
Benzo(k)fluoranthene	0.02	0.04	ND			
Chrysene	0.01	0.02	ND			
Dibenzo(a,h)anthracene	0.01	0.02	ND			
Fluoranthene	0.01	0.02	ND			
Fluorene	0.01	0.02	ND			
Indeno(1,2,3-cd)pyrene	0.02	0.04	ND			
Naphthalene	0.04	0.08	ND			
Phenanthrene	0.01	0.02	ND			
Pyrene	0.01	0.02	ND			
Sample Volume (in cubic meters)	1.0	1.0	300			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		98.6			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71437	11/22/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 112513IB1

Our Lab I.D.			71437.01	71437.02		
Client Sample I.D.			E112113	W112113		
Date Sampled			11/21/2013	11/21/2013		
Date Prepared			11/25/2013	11/25/2013		
Preparation Method			3540C	3540C		
Date Analyzed			11/27/2013	11/27/2013		
Matrix			Gaseous	Gaseous		
Units			ng/m3	ng/m3		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Acenaphthene	0.10	0.20	3.24	2.56		
Acenaphthylene	0.05	0.10	ND	ND		
Anthracene	0.20	0.40	0.696	0.319J		
Benzo(a)anthracene	0.05	0.10	ND	ND		
Benzo(a)pyrene	0.05	0.10	0.567	0.0750J		
Benzo(b)fluoranthene	0.05	0.10	0.427	0.0878J		
Benzo(g,h,i)perylene	0.05	0.10	ND	ND		
Benzo(k)fluoranthene	0.10	0.20	0.214	ND		
Chrysene	0.05	0.10	1.54	0.507		
Dibenzo(a,h)anthracene	0.05	0.10	ND	ND		
Fluoranthene	0.05	0.10	2.60	1.45		
Fluorene	0.05	0.10	5.68	4.44		
Indeno(1,2,3-cd)pyrene	0.10	0.20	ND	ND		
Naphthalene	0.20	0.40	63.1	51.6		
Phenanthrene	0.05	0.10	13.2	9.96		
Pyrene	0.05	0.10	3.43	1.75		
Sample Volume (in cubic meters)	5	5	130	128		
Our Lab I.D.			71437.01	71437.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		119	122		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71437	11/22/2013	SC/G

Method: TO-13, PAH in Air Samples (By HPLC)

QC Batch No: 112513IB1; LCS: Blank; LCS Prepared: 11/25/2013; LCS Analyzed: 11/26/2013; Units: ng/m3

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Acenaphthene	500	559	112	500	580	116	3.51	60-140	<40	
Acenaphthylene	1,000	1,010	101	1,000	1,040	104	2.93	70-130	<30	
Anthracene	50.0	53.1	106	50.0	55.5	111	4.61	70-130	<30	
Benzo(a)anthracene	50.0	57.7	115	50.0	60.7	121	5.08	70-130	<30	
Benzo(a)pyrene	50.0	53.6	107	50.0	55.7	111	3.67	70-130	<30	
Benzo(b)fluoranthene	100	110	110	100	114	114	3.57	70-130	<30	
Benzo(g,h,i)perylene	100	89.8	89.8	100	84.4	84.4	6.20	70-130	<30	
Benzo(k)fluoranthene	50.0	57.1	114	50.0	59.0	118	3.45	70-130	<30	
Chrysene	50.0	57.9	116	50.0	60.4	121	4.22	70-130	<30	
Dibenzo(a,h)anthracene	100	122	122	100	122	122	<1	70-130	<30	
Fluoranthene	100	116	116	100	120	120	3.39	70-130	<30	
Fluorene	100	93.7	93.7	100	97.6	97.6	4.08	60-140	<40	
Indeno(1,2,3-cd)pyrene	50.0	60.1	120	50.0	56.1	112	6.90	70-130	<30	
Naphthalene	500	534	107	500	545	109	1.85	60-140	<40	
Phenanthrene	50.0	57.5	115	50.0	59.2	118	2.58	70-130	<30	
Pyrene	50.0	54.0	108	50.0	56.0	112	3.64	75-125	<30	
<b>Surrogates</b>										
p-Terphenyl-D14	800	943	118	800	952	119	<1	75-125	<20	



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---

**Attachment F**

**Additional Investigation Boring Logs**



Job No. Client/Site: *SCG / Alameda MGP*

Drilling Co./Method: *El Capitan* Boring/Well Number: *A-OIS-7*

Sampling Method: *Hand Auger to Sampling Depth* Sheet: *1 of 1*

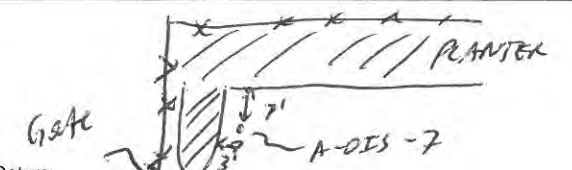
Background Conditions: Surface Conditions: Concrete or Grass *Asphalt*

Notes: *Collected samples in 6"x2" SS slurry transferred soil to 4 of 5*

Start Date: *9/23/13* Finish Date:

Time: *0830* Time:

Soil Description



Sample No.	Sample Depth	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type	Soil Description
					Auger	Sample	Breathing Zone			
									<i>Asphalt</i>	
									<i>Base</i>	
		<i>A-OIS-7-15</i>					<i>1</i>	<i>SP</i>	<i>SAND: brown (104p4/3), dry fine grained to medium, asphalt clay, gravel trace, fine gravel, no odor. Trace specks of long black @ 1.5'</i>	
		<i>0834</i>					<i>2</i>			
		<i>A-OIS-7-3</i>					<i>3</i>	<i>SP</i>	<i>SAND (SP): yellowish brown (104R 5/4) as above but clay in color from ground, trace fine gravel, no odor</i>	
		<i>0842</i>					<i>4</i>			
		<i>A-OIS-7-5</i>					<i>5</i>	<i>SP</i>	<i>A &gt; Above</i>	
		<i>0855</i>					<i>6</i>	<i>SM</i>	<i>SAND Silty SAND (SM): dark yellowish brown (104R 4/4), fine grained sandy, dry to moist, no odor or string! found in tip of sample, appears native, trace roots</i>	
							<i>7</i>		<i>TD = 5.5'</i>	
							<i>8</i>			
							<i>9</i>			
							<i>0</i>			

Geologist: *F. Maslin*  
 Reviewed By: *F. Maslin*  
 Instrument/Serial No.:  
 Calibration Date/Gas:  
 Sample Container:  
 Sample Analyses:  
 Personal Sampling:  No  
 Person Sampled:

Job No. \_\_\_\_\_ Client/Site: SCG / Plank MLP

Drilling Co./Method: Et Capitan Boring/Well Number: A-OIS-8

Sampling Method: Hand Auger to Sample Sheet: 1 of 1

Background Conditions: \_\_\_\_\_ Drilling \_\_\_\_\_

Surface Conditions: Concrete or Grass Asphalt Start Date: \_\_\_\_\_ Finish Date: \_\_\_\_\_

Sample No.	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type
				Auger	Sample	Breathing Zone		
							0	Asphalt
							1	Base
							2	SP
							3	SP
							4	
							5	SP
							6	ML
							7	
							8	
							9	
							10	

Datum: back A-OIS-8

Notes: Collected Samples w/ 6"x2" SS sleeves, transferred to 4 of 5's

Soil Description

Asphalt

Base

SAND, little to fine gravel (SP); brown 107R 4/3 fine gravel, f.c. gravel trace of asphalt gravel. Sand for spec (here) at LA. Roots, dry

SAND (SP); dark yellowish brown (107R 4/6), f.m. gravel, dry, longgrain

As above

SILT (ML); 1. yellowish brown (107R 6/4), dry, longgrain, no clay, longgrain. ID = 5.5

Geologist: F. M. Acciani  
 Reviewed By: \_\_\_\_\_  
 Instrument/Serial No. \_\_\_\_\_  
 Calibration Date/Gas: \_\_\_\_\_  
 Sample Container: \_\_\_\_\_  
 Sample Analyses: \_\_\_\_\_  
 Personal Sampling: \_\_\_\_\_  
 Person Sample \_\_\_\_\_

Job No. \_\_\_\_\_ Client/Site: **SCG Alameda M&P**

Drilling Co./Method: **ET Geotech** Boring/Well Number: **A-OIS-9**

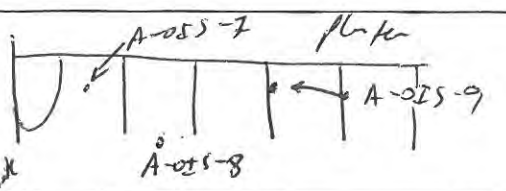
Sampling Method: **Hand Auger to sampling depth** Sheet \_\_\_\_\_ of \_\_\_\_\_

Background Conditions: \_\_\_\_\_

Surface Conditions: Concrete or Grass **Asphalt** Start Date \_\_\_\_\_ Finish Date \_\_\_\_\_

Notes: **Sampled using slide hammer 9/29/13**  
**of 2x6" SS Gleason**

Soil Description



Sample No.	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type
				Auger	Sample	Breathing Zone		
							0	Asphalt
							1	SP
<b>A-OIS-9-1.5</b>							1.5	
<b>1008</b>							2	
							3	SP
<b>A-OIS-9-3</b>							3	
<b>1016</b>							4	
							5	SP
<b>A-OIS-9-5</b>							5	
<b>1025</b>							6	M
							7	
							8	
							9	
							10	

little to the coarse part  
 SAND (SP) yellowish brown (10% 5/4)  
 F-m sat, no odor, dry, cycle  
 to subgrade gravel

SAND (SP) - yellowish brown (10% 5/4)  
 very fine gravel, homogeneous, F-m  
 sand full of joints, no odor

same as above

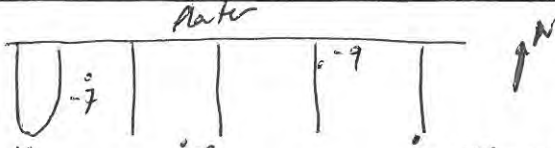
SILT (M), light yellowish brown (10% 6/4)  
 dry, no odor, homogeneous.

TD=5.5

Geologist: **F. Macioni**  
 Reviewed By:  
 Instrument Serial No.:  
 Calibration Date/Gas:  
 Sample Container:  Yes  No  
 Sample Analyses:  
 Personal Sampling:  Person Sample



Job No. \_\_\_\_\_ Client/Site: SLG Pine Bluffs Hwy  
 Drilling Co./Method: GI Capital Boring/Well Number: A-OIS-10  
 Sampling Method: Hand Auger to Sample Depth Sheet: 1 of 1  
 Background Conditions: \_\_\_\_\_ Drilling: \_\_\_\_\_  
 Surface Conditions: Concrete or Grass Asphalt Start Date: 9/22/13 Finish Date: \_\_\_\_\_



Datum: gate 8 A-OIS-10

Geologist: F. MASONI  
 Reviewed By: \_\_\_\_\_

Instrument Serial No. \_\_\_\_\_  
 Calibration Date/Gas: \_\_\_\_\_

Sample Container: \_\_\_\_\_  
 Sample Analyses: \_\_\_\_\_

Personal Sampling:  No  Yes  
 Person Sample \_\_\_\_\_

Sample No. Sample Depth	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type	Notes	Soil Description	Start Date	Finish Date
				Auger	Sample	Breathing Zone						
							0	Asphlt				
							1	S&S				
							2	SP	<u>SAND (SP); yellowish brown (conc 5/4); fine, few medium grains; dry, no odor; no LB</u>			
							3	SP	<u>SAND (SP); same as above, no LB</u>			
							4					
							5	SP	<u>SAND (SP); same as above no LB</u>			
							6					
							7					
							8					
							9					
							10					

A-OIS-10-1.5  
1042

A-OIS-10-3  
1050

A-OIS-10-5  
1055

TD=5.5

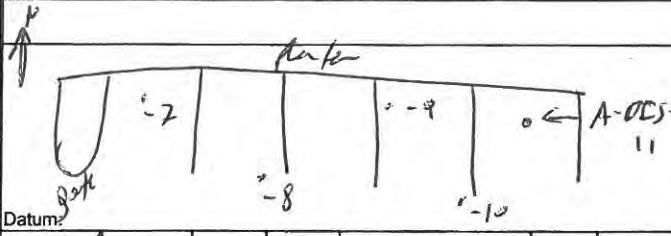
Job No. \_\_\_\_\_ Client/Site: SCG Alameda MHP

Drilling Co./Method: ET Capital Boring/Well Number: A-025-11

Sampling Method: Hand Auger to Sample Depth Sheet: 1 of 1

Background Conditions: \_\_\_\_\_

Surface Conditions: Concrete or Grass Asphalt Drilling Start Date: 9/20/13 Finish Date: \_\_\_\_\_



Geologist: F. Mascheri  
 Reviewed By: \_\_\_\_\_

Sample No. Sample Depth	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type	Soil Description	Notes	Start Date	Finish Date
				Auger	Sample	Breathing Zone						
							0	Asphalt				
							1	SP				
							2	SP	SAND, fine to little gravel (SP), dark yellowish brown (moist 4/4), f.m. sand, f.m. silt, no odor, no LB, dry	Collected sample in 6" x 2" 558 tube and transferred soil to 4 oz jars		
							3	SP	SAND (SP) yellowish brown (moist 5/4) no gravel, f.m. no odor, dry			
							4					
							5	SP ML	SAND (SP): light yellowish brown (moist 6/4), fine sand, dry, no odor, no LB SILT (ML): light yellowish brown (moist 6/4) less dry, no odor, no odor			
							6					
							7					
							8					
							9					
							10					

Instrument Serial No. \_\_\_\_\_ Calibration Date/Gas: \_\_\_\_\_

Sample Container: \_\_\_\_\_ Sample Analyses: \_\_\_\_\_

Personal Sampling: \_\_\_\_\_ Person Sample \_\_\_\_\_

TD = 5.5

Job No. \_\_\_\_\_ Client/Site: SCG Alameda

Drilling Co./Method: El Capiton Boring/Well Number: A-025-12

Sampling Method: Hard Auger to Sample Depth Sheet: 1 of 1

Background Conditions: \_\_\_\_\_

Surface Conditions: Concrete or Grass Asphalt Drilling Start Date: 9/20/12 Finish Date: \_\_\_\_\_

Datum: \_\_\_\_\_

Sample No.	Sample Depth	Time	Sampling Interval	Percent Recovery	Instrument PID			Depth in Feet	USCS Soil Type	Soil Description	Notes	
					Auger	Sample	Breathing Zone				Start Date	Finish Date
							0	Asphalt				
							1	Base				
							2	SP	SAND (SP). dark yellowish brown (10% 4/4), F-m, sand, trace fine gravel, no silt, no clay, homogeneous.			
							3					
							4	SP	SAND (SP); pale brown (10% 6/3)			
							5					
							6					
							7					
							8					
							9					
							10					

Geologist: F. Matson

Reviewed By: \_\_\_\_\_

Instrument/Serial No.: \_\_\_\_\_

Calibration Date/Gas: \_\_\_\_\_

Sample Container:  Yes  No

Sample Analyses: \_\_\_\_\_

Personal Sampling:  Yes  No

Person Sample: \_\_\_\_\_

Notes:

Collected sample in 6" x 7" SS sleeve & transferred to 4oz plastic bag

Soil Description

Asphalt

Base

SP SAND (SP). dark yellowish brown (10% 4/4), F-m, sand, trace fine gravel, no silt, no clay, homogeneous.

SP SAND (SP); pale brown (10% 6/3)

TD-5.75



Job No. \_\_\_\_\_ Client/Site: *SCG - Alameda offsite*

Drilling Co./Method: *El Capitan* Boring/Well Number: *A-OIS-13*

Sampling Method: *Hand Auger to safety depth* Sheet: *1 of 1*

Background Conditions: \_\_\_\_\_

Surface Conditions: Concrete or Grass *Asphalt* Start Date: *9/26/19* Finish Date: \_\_\_\_\_

Geologist: \_\_\_\_\_  
 Reviewed By: *F. MASCIANO*

Instrument/Serial No. \_\_\_\_\_  
 Calibration Date/Gas: \_\_\_\_\_

Sample Container: \_\_\_\_\_  
 Sample Analyses: \_\_\_\_\_

Personal Sampling:  Yes  No  
 Person Sample \_\_\_\_\_

Datum: \_\_\_\_\_

Sample No. Sample Depth	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth In Feet	USCS Soil Type	Soil Description	Drilling	
				Auger	Sample	Breathing Zone				Start Date	Finish Date
							0	Asphalt			
							1	SP SAND (s); few specs of brick material, appears hard			
	<i>A-OIS-13-1.5</i>						2	SP SAND, few fine gravel (SP); yellowish brown (10% G/L), dry, fine grained no color, no LB, trace coarse angular gravel			
	<i>A-OIS-13-3.0</i>						3	SP Same as a sand, but fine to medium no color, no LB			
	<i>A-OIS-13-3.0</i> <i>1005</i>										
	<i>A-OIS-13-3.0</i>										
	<i>A-OIS-13-5.0</i>						5	SP Same as above, no color, no LB			
	<i>1011</i>										
							6				
							7				
							8				
							9				
							10				

*TD=5.25'*

Geologist: F. MAIGANI  
 Reviewed By:

Instrument/Serial No.  
 Calibration Date/Gas:

Sample Container:  
 Sample Analyses:

Personal Sampling:  Yes  No  
 Person Sample

Datum:		Job No.		Client/Site:		Drilling Co./Method:		Boring/Well Number	
Sample No.	Time	Sampling Interval	Percent Recovery	Instrument: PID			Notes:	Start Date	Finish Date
Sample Depth				Auger	Sample	Breathing Zone	Depth in Feet	USCS Soil Type	Soil Description
							0	Asphalt	
							1	Base	
							1.5	SP	Same as 1.5, but w/ large of blacker tan material, mild odor, some asphalt
		A-OIS-14-5 0830			9.7		2	SP	Gravelly SAND (SP); dark brown (104K/54) f-m sand, f-m gravel, angular, no LB, no odor
							3	SP-SM	SAND to silty SAND (SP-SM); yellowish brown (104K/54), no odor, fine to med graded, angular, dry, no LB.
		A-OIS-14-3 0835			0.0		5	SP	SAND (SP); yellowish brown (104K/54), f-m gravel, angular, no odor, homogeneous, dry
		A-OIS-14-5 0840			0.0				TD = 5.75'
							6		
							7		
							8		
							9		
							10		



Job No.	Client/Site: SCG- Alameda offsite
Drilling Co./Method: El Capitan	Boring/Well Number: A-OIS-15
Sampling Method: Hand Auger to copper	Sheet: 1 of 1
Background Conditions: dry	Drilling Start Date: 9/26/13
Surface Conditions: Concrete or Grass Asphalt	Finish Date:

Datum:

Sample No.	Sample Depth	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type	Soil Description	Notes	Start Date	Finish Date
					Auger	Sample	Breathing Zone						
									Asphalt				
									Base				
								SP	SAND, few to little gravel (SP); brown (10% clay), dry, angular gravel, fine sand, trace angular coarse sand, no odor				
								SP	SAND (SP); yellowish brown (10% clay), fine to medium, dry, no odor, no L/S, homogeneous				
								SP	Same as above				
										TD=5.25'			

Geologist: F. MASCIONI  
 Reviewed By: F. MASCIONI  
 Instrument/Serial No.:  
 Calibration Date/Gas:  
 Sample Container:  
 Sample Analyses:  
 Personal Sampling:  Yes  No  
 Person Sample

Geologist: F. MASCIONI  
Reviewed By: F. MASCIONI

Instrument/Serial No. Calibration Date/Gas:

Sample Container: Sample Analyses:

Personal Sampling:  Yes  No  
Person Sample

Datum:		Job No.		Client/Site:		Drilling Co./Method:		Boring/Well Number	
Sample No.	Time	Sampling Interval	Percent Recovery	Instrument: PID			Notes:	Start Date	Finish Date
Sample Depth				Auger	Sample	Breathing Zone	Depth in Feet	USCS Soil Type	Time
							0	Asphalt	
							0.5	Base	
							1	free fine sand	
		A-OIS-16-1.5	0930				2	SAND (SP); yellowish brown (108/109) fine sand, fine gravel, no LB, no water, dry	
							3	SAND (SP); light yellowish brown (108/109) fine sand, no gravel, no LB, no water, dry	
		A-OIS-16-3	0935				4		
							5	Same as above	
		A-OIS-16-5	0940				5.25	TD = 5.25'	
							6		
							7		
							8		
							9		
							10		

Job No. \_\_\_\_\_ Client/Site: SCG - Alameda OFFSITE

Drilling Co./Method: E1 Capitan Boring/Well Number: A-OIS-16

Sampling Method: Hand Auger to Sampling Depth Sheet 1 of 1

Background Conditions: \_\_\_\_\_

Surface Conditions: Concrete or Grass Asphalt Start Date: 9/26/13 Finish Date: \_\_\_\_\_

Notes: 60 lb test sample in 51 lb barrel and transferred to 90 lb jar

Job No. \_\_\_\_\_ Client/Site: SGG - Alameda Off site

Drilling Co./Method: El Capitan Boring/Well Number: A-OIS-17

Sampling Method: Hand auger to sample depth Sheet: 1 of 1

Background Conditions: \_\_\_\_\_

Surface Conditions: Concrete or Grass Asphalt Start Date: 9/26/13 Finish Date: \_\_\_\_\_

Geologist: \_\_\_\_\_  
Reviewed By: F. Mascioni

Instrument/Serial No. \_\_\_\_\_  
Calibration Date/Gas: \_\_\_\_\_

Personal Sampling:  Yes  No  
Sample Container: \_\_\_\_\_  
Sample Analyses: \_\_\_\_\_  
Person Sample \_\_\_\_\_

Sample No.	Sample Depth	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth In Feet	USCS Soil Type	Soil Description	Notes	Drilling	
					Auger	Sample	Breathing Zone					Date	Date
								0	Asphalt				
								1	Base				
								2	SP	SAND, few gravel (SP); grayish to black (w/41D), fine to medium sand w/ fine gravel, lumpy blocks (chunks, no odor, dry			
								3	SP	SAND (SP); light yellowish brown (w/41D) fine to medium, dry, no LB, no odor, long grass			
								4					
								5	SP	As above, no odor no LB			
								6					
								7					
								8					
								9					
								10					

TD-5-25

Geologist: F. MASCIONI  
Reviewed By: RA

Instrument/Serial No.  
Calibration Date/Gas:

Sample Container:  
Sample Analyses:

Personal Sampling:  Yes  No  
Person Sample

Datum:							Job No.	Client/Site:			
Sample No.	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type	Soil Description	Drilling	
				Auger	Sample	Breathing Zone				Start Date	Finish Date
							0	Asphalt			
							1	SP	Gravelly SAND (SP); brown (10464/3) dry, fine sand, native gravel, few LB specks, no odor	9/26/13	
							2				
							3	SP	SAND (SP); yellowish brown (10465/4) dry, fine sand, no odor, no LB, no gravel, few fine gravel		
							4				
							5	SP	As above		
							6				
							7				
							8				
							9				
							10				

Job No. \_\_\_\_\_ Client/Site: ET Cap SC6 - Alameda

Drilling Co./Method: ET Cap Boring/Well Number: A-OIS-18

Sampling Method: Hand auger to sample Sheet: 1 of 1

Background Conditions: Depth

Surface Conditions: Concrete or Grass Asphalt

Notes: Collected sample in SS sleeve and transferred to 402 glass jar.

Start Date: \_\_\_\_\_ Finish Date: \_\_\_\_\_

Time: \_\_\_\_\_ Time: \_\_\_\_\_

TD=5.75'



Geologist: F. P. ...  
Reviewed By: F. P. ...

Instrument/serial No. \_\_\_\_\_  
Calibration Date/Gas: \_\_\_\_\_

Sample Container: \_\_\_\_\_  
Sample Analyses: \_\_\_\_\_

Personal Sampling:  No  
Person Sampled: \_\_\_\_\_

Datum:		Instrument: PID				Depth in Feet	USCS Soil Type	Soil Description	Drilling	
Sample No.	Sample Depth	Auger	Sample	Breathing Zone	Notes				Start Date	Finish Date
					0	/// Asphalt				
					1	oo Base				
					2	SP SAND (SP), yellowish brown (100% 5/4) fine grained, med-coarse sand grains, no clay, dry, no string				
					3	SP SAND (SP); yellowish brown (100% 5/4), few fine grains, dry, no clay, no string, fine grained sand				
					4					
					5	SP Same as above, no string or clay				
					6					
					7					
					8					
					9					
					10					

Job No. \_\_\_\_\_ Client/Site: Alameda Mills / SCG

Drilling Co./Method: El Capitan Boring/Well Number: A-OSI-19

Sampling Method: Hand Auger to Sample Depth Sheet: 1 of 1

Background Conditions: \_\_\_\_\_

Surface Conditions: Concrete or Grass Asphalt

Notes: Collected sample in SS sleeve and transferred to 4 oz plastic jar

Start Date: 12/1/13 Finish Date: \_\_\_\_\_

A-OSI-19-1.5  
1017

A-OSI-19-3  
1020

A-OSI-19-5  
1015

TD = 5.25'

Geologist: F. PAAS (03/2011)

Instrument/Serial No.

Sample Container:

Personal Sampling:  Yes  No

Reviewed By:

Calibration Date/Gas:

Sample Analyses:

Person Sample

Datum:							Job No.		Client/Site: SCG - Alameda County		
							Drilling Co./Method: El Capitan		Boring/Well Number: A-015-20		
							Sampling Method: Hand Auger to sample depth		Sheet: 1 of 1		
							Background Conditions:		Drilling		
							Surface Conditions: Concrete or Grass		Start Date	Finish Date	
							Notes: Collected sample in SS sleeve and transferred to 4 oz glass jar		9/26/13		
Sample No.	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type	Soil Description	Time	Time
Sample Depth				Auger	Sample	Breathing Zone					
							0	AS	As above		
							1	AS	Base		
							2	SP	SAND (SP); yellowish brown (10/65/14) medium to coarse, rich in roots from 0-1 (about 2' ft from pile top), no clay, no staining, dry staining appears @ 1.5-2 ft, streaks appear as LB. smears, dry		
							3	SP	SAND (SP); yellowish brown (10/65/14) f-m sand, no staining, dry		
							4				
							5	SP	As above, no stain or LB.		
							6				
							7				
							8				
							9				
							10				

A-015-20-2.0  
1345

A-015-20-3.1  
1350

A-015-20-5  
1355

TD = 5.25

Job No. \_\_\_\_\_ Client/Site: SCG - Alameda 245.52

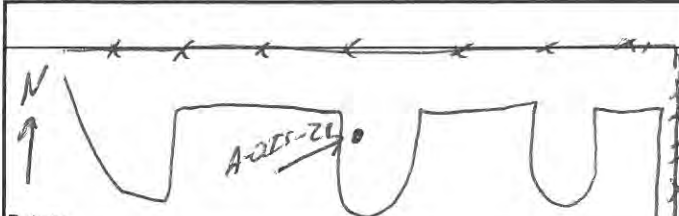
Drilling Co./Method: BT Capital Boring/Well Number: A-015-21

Sampling Method: Hand Auger to sample depth Sheet 1 of 1

Background Conditions: \_\_\_\_\_

Surface Conditions: Concrete or Grass Unpaved plank

Drilling Start Date: 9/26/13 Finish Date: \_\_\_\_\_



Sample No.	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type	Soil Description	Notes	Date	Time
				Auger	Sample	Breathing Zone						
							0	SP	SAND (SP); yellowish brown (10YR 5/6) rich in roots no discoloration	Attempted 3 holes w/ plates All had rebound @ 2.2 ft top of plate		
							1	SP	SAND (SP); brown (10YR 4/3) firm friable loose sand, fragments of what appear some grayish black discoloration			
							2			Rebound @ 2.2'		
							3					
							4					
							5					
							6					
							7					
							8					
							9					
							10					

Geologist: F. Massey  
 Reviewed By: \_\_\_\_\_  
 Instrument/Serial No.: \_\_\_\_\_  
 Calibration Date/Gas: \_\_\_\_\_  
 Sample Container:  Yes  No  
 Sample Analyses: \_\_\_\_\_  
 Personal Sampling:  Yes  No  
 Person Sampled: \_\_\_\_\_

A-015-21-2  
1430

Geologist: F. P. ...

Instrument Serial No.

Personal Sampling:  Yes  No  
 Sample Container:  Yes  No  
 Sample Analyzed:  Yes  No

Reviewed By:

Calibration Date/Gas:

Datum:		Instrument: PID			Depth in Feet	USCS Soil Type	Soil Description	Drilling	
Sample No.	Time	Auger	Sample	Breathing Zone				Start Date	Finish Date
					0	Asphalt			
					0.5	Base			
					1	SP	SAND, fine gravel (SP); yellowish brown (104/514), f - m fine calc. grains, some sand, fine to med. calc. gravel; few specs of LB, + asphalt pieces, dry, no odor		
A-015-22-1.5					1.5				
A-015-22-1.5D					2	SP	Fine SAND (SP); Yellowish brown (104/514) dry, fine grained trace to 1/16" fine gravel, rich in roots, no odor		
					2				
					3				
A-015-22-3					3				
					4				
A-015-22-5					4	SP	SAND (SP); yellowish to brown (104/514) fine to med. calc. sand, dry, no odor, no dissolution, to general.		
					5				
					5				
					6				
					7				
					8				
					9				
					10				

Job No. \_\_\_\_\_ Client/Site: SCG - Alameda Offsite

Drilling Co./Method: ET Capital Boring/Well Number: A-015-22

Sampling Method: Handeye to 100g/100g Sheet 1 of 1

Background Conditions: \_\_\_\_\_

Surface Conditions: Concrete or Grass Asphalt

Notes: Alameda sample for SS  
stand and fractured to 4 of  
jar

Start Date: 9/10/03 Finish Date: \_\_\_\_\_

TD=5.25





Geologist: F. MARICOM  
 Reviewed By: F. MARICOM

Instrument Serial No. \_\_\_\_\_  
 Calibration Date/Gas: \_\_\_\_\_

Personal Sampling:  Yes  No  
 Person Sampled: \_\_\_\_\_  
 Sample Container: \_\_\_\_\_  
 Sample Analyses: \_\_\_\_\_

Datum:						Instrument: PID		Depth in Feet	USCS Soil Type	Notes	Drilling	
Sample No.	Sample Depth	Time	Sampling Interval	Percent Recovery	Auger	Sample	Breathing Zone				Start Date	Finish Date
								0	Asphalt			
								1	SM-SP	Used 6" x 2" to collect sample, transferred to 402 jar	7/28/13	
		A-OIS-25-15	5-25-15					1.0	SM-SP	Silty SAND to SAND (SM-SP); Reddish brown (5YR 4/3), trace gravel, no odor, no odor, no staining, dry	1010	
								2	SM	Silty SAND (SM); Reddish brown (5YR 4/3) no odor, no staining, dry - moist, no staining no odor		
		A-OIS-25-3						3	SP	SAND (SP); yellowish brown (2.5Y 6/3), no odor, fine to medium gravel, no odor, no staining, moist, trace silt.		
								4				
		A-OIS-25-5						5	SP	As Above		
		1030						5.0				
								6		TD = 5.75		
								7				
								8				
								9				
								10				



Job No. \_\_\_\_\_ Client/Site: *SCG / Alameda #62*

Drilling Co./Method: *ET Capital* Boring/Well Number: *A-OSI-27*

Sampling Method: *Hand auger to sept. depth* Sheet: *1* of *1*

Background Conditions: \_\_\_\_\_ Drilling \_\_\_\_\_

Surface Conditions: Concrete or Grass *Asphalt* Start Date: *12/1/12* Finish Date: \_\_\_\_\_

Datum: \_\_\_\_\_

Sample No. Sample Depth	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type	Notes	Soil Description	Start Date	Finish Date
				Auger	Sample	Breathing Zone						
							0		<i>Asphalt</i>			
							1	<i>SS</i>	<i>Coarse</i>			
							1.5		<i>Coarsely SAND (SP); yellowish brown to brown (10yR 5/4 to 4/3), moist, f-m sand, f-m gravel, no clay, no silt.</i>			
							2		<i>Refusal @ 2.2' due to log jam</i>			
							3					
							4					
							5					
							6					
							7					
							8					
							9					
							10					

*A-OSI-27-1.5*  
*1103*

Geologist: \_\_\_\_\_  
Reviewed By: \_\_\_\_\_  
Instrument/serial No. \_\_\_\_\_  
Calibration Date/Gas: \_\_\_\_\_  
Sample Container: \_\_\_\_\_  
Sample Analyses: \_\_\_\_\_  
Personal Sampling:  Yes  No  
Person Sampled: \_\_\_\_\_



Job No. \_\_\_\_\_ Client/Site: *SCG / Alameda M.C.P.*

Drilling Co./Method: *El Capitan* Boring/Well Number: *A-OSI-28*

Sampling Method: *Hand driven to sample depth* Sheet \_\_\_\_\_ of \_\_\_\_\_

Background Conditions: \_\_\_\_\_ Drilling \_\_\_\_\_

Surface Conditions: Concrete or Grass *Asphalt* Start Date: \_\_\_\_\_ Finish Date: \_\_\_\_\_

Datum: \_\_\_\_\_

Sample No. Sample Depth	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type	Notes	Drilling	
				Auger	Sample	Breathing Zone				Date	Time
							0	<i>Asphalt</i>			
							1	<i>SP SAND (SP); brown (109R 8/3)</i>	<i>collected samples in 5 sleeves</i>	<i>12/1/13</i>	
							2	<i>SP SAND (SP); yellowish brown (109R 5/4)</i>	<i>and transferred to 402</i>		
							3	<i>SP SAND (SP); yellowish brown (109R 5/4)</i>	<i>fine to medium sand, trace of sand</i>		
							4		<i>fine sand, trace long blades</i>		
							5		<i>specimens</i>		
							6		<i>same as above, no long blades</i>		
							7				
							8				
							9				
							10				

Geologist: \_\_\_\_\_ Reviewed By: \_\_\_\_\_

Instrumental No. \_\_\_\_\_ Calibration Date/Gas: \_\_\_\_\_

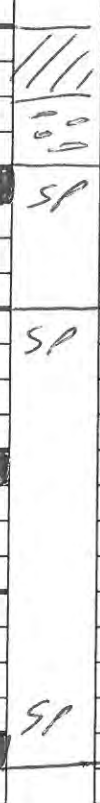
Sample Container: \_\_\_\_\_ Sample Analyzed: \_\_\_\_\_

Personal Sampling:  No  Yes

Person Sampled: \_\_\_\_\_

Notes: *collected samples in 5 sleeves and transferred to 402 glass jar*

Soil Description



Job No. \_\_\_\_\_ Client/Site: SCG / Mando Hill

Drilling Co./Method: El Capitan Boring/Well Number: A-OSI-29

Sampling Method: Hand Auger to sample depth Sheet 1 of 1

Background Conditions: \_\_\_\_\_ Drilling \_\_\_\_\_

Surface Conditions: Concrete or Grass Asphalt Start Date: 10/1/13 Finish Date: \_\_\_\_\_

Datum: \_\_\_\_\_

Notes: Collected samples in 55 litering for and transferred to 4 oz glass jars

Soil Description

Personal Sampling:  as  No  Personal Sampling: \_\_\_\_\_

Sample Container: \_\_\_\_\_

Sample Analyses: \_\_\_\_\_

Calibration Date/Gas: \_\_\_\_\_

Instrument Serial No. \_\_\_\_\_

Geologist: \_\_\_\_\_

Reviewed By: \_\_\_\_\_

Sample No.	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type	Soil Description
				Auger	Sample	Breathing Zone			
							0	Asphalt	
							1	Base	
A-OSI-29-15 1133							2	SP SAND (SP), brown to black (104 & 413) to 104 & 215, fine to medium sand mixed with large pieces of log black dry, no odor	
A-OSI-29-3 1146							3	SM Silty SAND (SM) yellowish brown (104 & 413), fine sand, no odor, no staining, dry	
A-OSI-29-5 1149							5	SP SAND (SP), yellowish brown (104 & 413) fine grained, dry, no staining, no odor	
								TP = 5.25'	
							6		
							7		
							8		
							9		
							10		

Job No. \_\_\_\_\_ Client/Site: SCG / Alameda MHP

Drilling Co./Method: ET Gordon Boring/Well Number: A-OSI-30

Sampling Method: Hand dig to sample depth Sheet: 1 of 1

Background Conditions: \_\_\_\_\_ Drilling \_\_\_\_\_

Surface Conditions: Concrete or Grass Asphalt Start Date: 192/13 Finish Date: \_\_\_\_\_

Datum: \_\_\_\_\_

Notes: Collected samples in SS slant and transferred to 4 oz jar

Soil Description \_\_\_\_\_

Geologist: \_\_\_\_\_  
 Reviewed By: \_\_\_\_\_  
 Instrument/serial No. \_\_\_\_\_  
 Calibration Date/Gas: \_\_\_\_\_  
 Sample Container: \_\_\_\_\_  
 Sample Analyses: \_\_\_\_\_  
 Personal Sampling:  No  Yes  
 Person Sampled: \_\_\_\_\_

Sample No.	Sample Depth	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type	Soil Description
					Auger	Sample	Breathing Zone			
										Asphalt
							1			base
									SP	SAND (SP); reddish brown (54, 54)
							2		SP	Gravelly SAND (SP); yellowish brown to brown (104, 5/4 to 4/3), fine to coarse grad, no odor, no string
							3		SP	SAND (SP); yellowish brown to pale brown (104, 5/4 to 6/3); fine to medium grad, dry, no odor
							4			
							5		SP	SAND (SP); same as above w/ trace of silt
										TD = 5.25
							6			
							7			
							8			
							9			
							10			

A-OSI-30-1.5  
0835

A-OSI-30-3  
0840

A-OSI-30-5  
0844

Job No. \_\_\_\_\_ Client/Site: SCG / Alameda MGP

Drilling Co./Method: El Capitan Boring/Well Number: A-OSI-31

Sampling Method: Hand auger to depth Sheet: 1 of 1

Background Conditions: \_\_\_\_\_ Drilling: \_\_\_\_\_

Surface Conditions: Concrete or Grass Asphalt Start Date: 10/2/13 Finish Date: \_\_\_\_\_

Datum:

Sample No. Sample Depth	Time	Sampling Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type	Soil Description
				Auger	Sample	Breathing Zone			
							0	Asphalt	
							0.60 0.60	Base	
A-OSI-31-1.5	0858	1.5D					1	SP-SM SAND to silty SAND (SP-SM); brown to dark yellowish brown (10% 4/13 5/14) dry-hard, no odor, trace specs of lamp shavings	
							2	SP SAND (SP); yellowish brown (10% 6/14) medium to coarse grained, angular, trace rounded gravel (M-C), no odor, no staining, dry	
A-OSI-31-3	0905						3	ML SILT (ML); yellowish brown (10% 6/14), dry to moist, no odor, no staining	
							4	SP Same as 2-3 ft above	
A-OSI-31-5	0909						5	SP SAND (SP); yellowish brown (10% 6/14), fine grained, trace silt, no odor, no staining dry TD = 5.2.5	
							6		
							7		
							8		
							9		
							10		

Geologist: \_\_\_\_\_  
 Reviewed By: F. M. ASHLEY  
 Calibration Date/Gas: \_\_\_\_\_  
 Instrument/serial No.: \_\_\_\_\_  
 Sample Container: \_\_\_\_\_  
 Sample Analyses: \_\_\_\_\_  
 Personal Sampling: \_\_\_\_\_  
 Person Sampled: \_\_\_\_\_







Geologist:

Reviewed By: F. MASSING

Instrument/serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling:  No

Person Sampled:

Job No.		Client/Site: <u>SCG / Abu Kunt</u>							
Drilling Co./Method: <u>El Capitan</u>		Boring/Well Number: <u>A-OSI-34</u>							
Sampling Method: <u>Hard Auger to Sample depth</u>		Sheet <u>1</u> of <u>1</u>							
Background Conditions:		Drilling							
Surface Conditions: Concrete or Grass <u>Asphalt</u>		Start Date	Finish Date						
Notes: <u>Collected samples in 6"x2" SS sleeves and transferred to 4oz glass jars</u>		<u>12/2/13</u>							
Sample No.	Time	Sample Interval	Percent Recovery	Instrument: PID			Depth in Feet	USCS Soil Type	Soil Description
Sample Depth				Auger	Sample	Breathing Zone			
							0	<u>Asphalt</u>	
							1	<u>Base</u>	
		<u>A-OSI-34-1.5</u>					2	<u>SP</u>	<u>SAND (SP); brown (color 4/3), moist-dry fine to medium, trace silt, trace to little fine gravel, no odor, no staining</u>
		<u>A-OSI-34-3</u>					3	<u>SP</u>	<u>SAND (SP); yellowish brown (color 6/4) to pale brown (color 6/3), dry, fine sand homogeneous, no odor, no staining</u>
		<u>A-OSI-34-5</u>					5	<u>SP</u>	<u>As Above, no odor, no staining</u>
							6		<u>TP = 5.25'</u>
							7		
							8		
							9		
							10		

**Attachment G**

**Confirmation and Additional Investigation Laboratory Reports**

## **Confirmation Soil Samples Laboratory Reports**



## American Environmental Testing Laboratory Inc.

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 8  
Date Received 09/12/2013  
Date Reported 09/13/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70607	09/12/2013	SC/G

**Project ID:** ALAMEDA  
**Project Name:** Alameda MGP  
**Site:** Alameda MGP  
718 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 6 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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# CHAIN OF CUSTODY RECORD

No 79275

AETL JOB No. **70607** Page **1** of **1**

COMPANY **So Cal Gas** PROJECT MANAGER **Kathleen Chayne**  
 COMPANY ADDRESS **555 W 5th St.** PHONE \_\_\_\_\_ FAX \_\_\_\_\_  
 PROJECT NAME **Former Alameda MGP** PROJECT # \_\_\_\_\_  
 SITE NAME **732 S. Alameda St.** PO # \_\_\_\_\_  
 AND ADDRESS **Los Angeles, CA 90021**

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS		
1	P1-S-1	70607-01	9/12/13	0800	SOIL	1/4 oz							
2	P1-S-2	70607-02		0803			X						
3	P1-S-3	70607-03		0805			X						
4	P1-S-4	70607-04		0810			X						
5	P1-B-1	70607-05		0812			X						
6	P1-B-2	70607-06		0815			X						
7													
8													
9													
10													
11													
12													
13													
14													
15													

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS **6** PROPERLY COOLED  Y / N / NA  
 CUSTODY SEALS  Y / N / NA SAMPLES INTACT  Y / N / NA  
 RECEIVED IN GOOD COND.  Y / N SAMPLES ACCEPTED  Y / N

TURN AROUND TIME  
 NORMAL  RUSH  SAME DAY  2 DAYS  
 NEXT DAY  3 DAYS

RELINQUISHED BY:	RECEIVED BY:
1. Signature: <i>[Signature]</i> Printed Name: <b>Robertio</b> Date: <b>9/12/13</b> Time: <b>10:10</b>	1. Signature: <i>[Signature]</i> Printed Name: <b>Parris-f</b> Date: <b>9.12.13</b> Time: <b>11:00</b>
2. Signature: <i>[Signature]</i> Printed Name: <b>Sergio's f</b> Date: <b>9.12.13</b> Time: <b>11:00</b>	2. Signature: <i>[Signature]</i> Printed Name: <b>AETL</b> Date: <b>09/12/13</b> Time: <b>11:00</b>

RELINQUISHED BY: **3.** Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/12/2013  
Date Reported 09/13/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70607	09/12/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 6 samples with the following specification on 09/12/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70607.01	P1-S-1	09/12/2013	Soil	1
70607.02	P1-S-2	09/12/2013	Soil	1
70607.03	P1-S-3	09/12/2013	Soil	1
70607.04	P1-S-4	09/12/2013	Soil	1
70607.05	P1-B-1	09/12/2013	Soil	1
70607.06	P1-B-2	09/12/2013	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	09/13/2013	2	Rush	mg/Kg
(8310)	09/13/2013	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70607	09/12/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091213IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			09/12/2013			
Preparation Method			3550B			
Date Analyzed			09/12/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.010	0.020	ND			
Benzo(a)pyrene	0.010	0.020	ND			
Benzo(b)fluoranthene	0.010	0.020	ND			
Benzo(k)fluoranthene	0.010	0.020	ND			
Chrysene	0.010	0.020	ND			
Dibenzo(a,h)anthracene	0.010	0.020	ND			
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND			
Acenaphthene	0.010	0.020	ND			
Acenaphthylene	0.010	0.020	ND			
Anthracene	0.010	0.020	ND			
Benzo(g,h,i)perylene	0.010	0.020	ND			
Fluoranthene	0.010	0.020	ND			
Fluorene	0.010	0.020	ND			
Naphthalene	0.010	0.020	ND			
Phenanthrene	0.010	0.020	ND			
Pyrene	0.010	0.020	ND			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		106			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70607	09/12/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091213IB1

Our Lab I.D.			70607.01	70607.02	70607.03	70607.04	
Client Sample I.D.			PI-S-1	PI-S-2	PI-S-3	PI-S-4	
Date Sampled			09/12/2013	09/12/2013	09/12/2013	09/12/2013	
Date Prepared			09/12/2013	09/12/2013	09/12/2013	09/12/2013	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			09/13/2013	09/12/2013	09/12/2013	09/12/2013	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			10	10	10	10	
Analytes	MDL	PQL	Results	Results	Results	Results	
Benzo(a)anthracene	0.100	0.200	ND	0.326	ND	ND	
Benzo(a)pyrene	0.100	0.200	0.463	1.08	0.407	0.553	
Benzo(b)fluoranthene	0.100	0.200	0.396	0.630	0.274	0.322	
Benzo(k)fluoranthene	0.100	0.200	0.258	0.384	0.155J	0.217	
Chrysene	0.100	0.200	ND	0.819	0.349	0.453	
Dibenzo(a,h)anthracene	0.100	0.200	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	0.100	0.200	ND	0.884	0.316	0.462	
Acenaphthene	0.100	0.200	ND	ND	ND	ND	
Acenaphthylene	0.100	0.200	ND	ND	ND	ND	
Anthracene	0.100	0.200	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.100	0.200	ND	1.11	0.389	0.595	
Fluoranthene	0.100	0.200	0.907	1.33	0.537	0.822	
Fluorene	0.100	0.200	ND	ND	ND	ND	
Naphthalene	0.100	0.200	ND	ND	ND	ND	
Phenanthrene	0.100	0.200	0.661	0.341	0.172J	0.336	
Pyrene	0.100	0.200	0.931	1.92	0.787	1.13	
Our Lab I.D.			70607.01	70607.02	70607.03	70607.04	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125		96.3	88.3	102	101	



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyney

Page: 4

Project ID: ALAMEDA  
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70607	09/12/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091213IB1

Our Lab I.D.			70607.05	70607.06		
Client Sample I.D.			P1-B-1	P1-B-2		
Date Sampled			09/12/2013	09/12/2013		
Date Prepared			09/12/2013	09/12/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/13/2013	09/13/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			2	2		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.020	0.040	0.0828	0.0577		
Benzo(a)pyrene	0.020	0.040	0.355	0.216		
Benzo(b)fluoranthene	0.020	0.040	0.199	0.121		
Benzo(k)fluoranthene	0.020	0.040	0.108	0.0714		
Chrysene	0.020	0.040	0.221	0.169		
Dibenzo(a,h)anthracene	0.020	0.040	ND	ND		
Indeno(1,2,3-cd)pyrene	0.020	0.040	0.381	0.141		
Acenaphthene	0.020	0.040	ND	ND		
Acenaphthylene	0.020	0.040	ND	ND		
Anthracene	0.020	0.040	ND	ND		
Benzo(g,h,i)perylene	0.020	0.040	0.530	0.186		
Fluoranthene	0.020	0.040	0.354	0.273		
Fluorene	0.020	0.040	ND	ND		
Naphthalene	0.020	0.040	ND	ND		
Phenanthrene	0.020	0.040	0.0958	0.105		
Pyrene	0.020	0.040	0.528	0.384		
Our Lab I.D.			70607.05	70607.06		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		91.3	90.3		



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

### Site

Alameda MGP  
718 S Alameda Street  
Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 5

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70607	09/12/2013	SC/G

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0912132C2

Our Lab I.D.		Method Blank	70607.01	70607.02	70607.03	70607.04
Client Sample I.D.			P1-S-1	P1-S-2	P1-S-3	P1-S-4
Date Sampled			09/12/2013	09/12/2013	09/12/2013	09/12/2013
Date Prepared		09/12/2013	09/12/2013	09/12/2013	09/12/2013	09/12/2013
Preparation Method		3050B	3050B	3050B	3050B	3050B
Date Analyzed		09/13/2013	09/13/2013	09/13/2013	09/13/2013	09/13/2013
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Lead	2.5	5.0	ND	78.0	60.3	80.0



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 6

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70607	09/12/2013	SC/G

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0912132C2

Our Lab I.D.		70607.05	70607.06			
Client Sample I.D.		P1-B-1	P1-B-2			
Date Sampled		09/12/2013	09/12/2013			
Date Prepared		09/12/2013	09/12/2013			
Preparation Method		3050B	3050B			
Date Analyzed		09/13/2013	09/13/2013			
Matrix		Soil	Soil			
Units		mg/Kg	mg/Kg			
Dilution Factor		1	1			
Analytes	MDL	PQL	Results	Results		
Lead	2.5	5.0	63.5	14.8		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 7

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70607	09/12/2013	SC/G

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0912132C2; Dup or Spiked Sample: 70594.01; LCS: Clean Sand; QC Prepared: 09/12/2013; QC Analyzed: 09/13/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	0.00	50.0	37.0 #	74.0	50.0	37.1 #	74.2	<1	75-125	<15

QC Batch No: 0912132C2; Dup or Spiked Sample: 70594.01; LCS: Clean Sand; QC Prepared: 09/12/2013; QC Analyzed: 09/13/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Lead	50.0	50.6	101	50.0	50.5	101	<1	75-125	<15



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## QUALITY CONTROL RESULTS

### Ordered By

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### Site

Alameda MGP  
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 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 8

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70607	09/12/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 0912131B1; Dup or Spiked Sample: 0912; LCS: Clean Sand; QC Prepared: 09/12/2013; QC Analyzed: 09/12/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	117	0.0500	0.0600	114	2.60	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0500	107	0.0500	0.0500	105	1.89	75-125	<20
Naphthalene	0.00	0.500	0.540	107	0.500	0.530	106	<1	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.400	100	0.400	0.390	97.5	2.50	75-125	<20

QC Batch No: 0912131B1; Dup or Spiked Sample: 0912; LCS: Clean Sand; QC Prepared: 09/12/2013; QC Analyzed: 09/12/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0600	121	75-125						
Benzo(a)pyrene	0.0500	0.0500	110	75-125						
Naphthalene	0.500	0.550	111	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.590	119	75-125						
Acenaphthylene	1.00	1.01	101	75-125						
Anthracene	0.0500	0.0600	113	75-125						
Benzo(b)fluoranthene	0.100	0.110	111	75-125						
Benzo(g,h,i)perylene	0.100	0.0900	91.7	75-125						
Benzo(k)fluoranthene	0.0500	0.0600	116	75-125						
Chrysene	0.0500	0.0600	118	75-125						
Dibenzo(a,h)anthracene	0.100	0.120	119	75-125						
Fluoranthene	0.100	0.120	116	75-125						
Fluorene	0.100	0.110	107	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	101	75-125						
Phenanthrene	0.0500	0.0600	117	75-125						
Pyrene	0.0500	0.0600	120	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.401	100	75-125						



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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.





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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 6  
Date Received 09/16/2013  
Date Reported 09/17/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70642	09/16/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 4 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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# CHAIN OF CUSTODY RECORD

No 79283

AETL JOB No. 70642

Page 1 of 1

**COMPANY:** See Cal Gas  
**PROJECT MANAGER:** K. Coyne  
**PHONE:** \_\_\_\_\_  
**FAX:** \_\_\_\_\_  
**PROJECT #:** \_\_\_\_\_  
**PO #:** \_\_\_\_\_  
**COMPANY ADDRESS:** 555 W. 5th St., CA  
**PROJECT NAME:** Alameda MGR  
**SITE NAME AND ADDRESS:** 732 Alameda Blvd

ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS					
DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
9/16/13	1052	SPL	4 or 1	-					
	1300			-					D=2.0
	1305			-					D=1.5
	1050			-					D=1.5
									D=1.5

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY				RELINQUISHED BY: 1.				RELINQUISHED BY: 2.				RELINQUISHED BY: 3.			
TOTAL NUMBER OF CONTAINERS	PROPERLY COOLED Y/N/NA	SAMPLES INTACT Y/N/NA	SAMPLES ACCEPTED Y/N	Signature:	Printed Name:	Date:	Time:	Signature:	Printed Name:	Date:	Time:	Signature:	Printed Name:	Date:	Time:
4	Y	Y	Y	[Signature]	Feb 11th 1992	9/16/13	1400	[Signature]	Feb 11th 1992	9/16/13	1400	[Signature]	AETL	9/16/13	1400
TURN AROUND TIME				RECEIVED BY: 1.				RECEIVED BY: 2.				RECEIVED BY: 3.			
<input type="checkbox"/> NORMAL	<input checked="" type="checkbox"/> RUSH	<input type="checkbox"/> SAME DAY	<input checked="" type="checkbox"/> NEXT DAY	Signature:		Printed Name:		Signature:		Printed Name:		Signature:		Printed Name:	
				Date:		Time:		Date:		Time:		Date:		Time:	

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/16/2013  
Date Reported 09/17/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70642	09/16/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 4 samples with the following specification on 09/16/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70642.01	P1-S-9	09/16/2013	Soil	1
70642.02	P1-S-10	09/16/2013	Soil	1
70642.03	P1-S-11	09/16/2013	Soil	1
70642.04	P1-S-12	09/16/2013	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	09/17/2013	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70642	09/16/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091613IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			09/16/2013			
Preparation Method			3550B			
Date Analyzed			09/16/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.010	0.020	ND			
Benzo(a)pyrene	0.010	0.020	ND			
Benzo(b)fluoranthene	0.010	0.020	ND			
Benzo(k)fluoranthene	0.010	0.020	ND			
Chrysene	0.010	0.020	ND			
Dibenzo(a,h)anthracene	0.010	0.020	ND			
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND			
Acenaphthene	0.010	0.020	ND			
Acenaphthylene	0.010	0.020	ND			
Anthracene	0.010	0.020	ND			
Benzo(g,h,i)perylene	0.010	0.020	ND			
Fluoranthene	0.010	0.020	ND			
Fluorene	0.010	0.020	ND			
Naphthalene	0.010	0.020	ND			
Phenanthrene	0.010	0.020	ND			
Pyrene	0.010	0.020	ND			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		98.3			



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### Ordered By

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### Site

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 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70642	09/16/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091613IB1

Our Lab I.D.			70642.01			
Client Sample I.D.			PI-S-9			
Date Sampled			09/16/2013			
Date Prepared			09/16/2013			
Preparation Method			3550B			
Date Analyzed			09/16/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			2			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.020	0.040	1.22			
Benzo(a)pyrene	0.020	0.040	1.52			
Benzo(b)fluoranthene	0.020	0.040	0.891			
Benzo(k)fluoranthene	0.020	0.040	0.557			
Chrysene	0.020	0.040	1.40			
Dibenzo(a,h)anthracene	0.020	0.040	ND			
Indeno(1,2,3-cd)pyrene	0.020	0.040	1.26			
Acenaphthene	0.020	0.040	ND			
Acenaphthylene	0.020	0.040	0.0315J			
Anthracene	0.020	0.040	0.154			
Benzo(g,h,i)perylene	0.020	0.040	1.78			
Fluoranthene	0.020	0.040	2.52			
Fluorene	0.020	0.040	0.0380J			
Naphthalene	0.020	0.040	0.0332J			
Phenanthrene	0.020	0.040	1.18			
Pyrene	0.020	0.040	3.35			
Our Lab I.D.			70642.01			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		84.3			



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Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70642	09/16/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091613IB1

Our Lab I.D.			70642.02	70642.03		
Client Sample I.D.			P1-S-10	P1-S-11		
Date Sampled			09/16/2013	09/16/2013		
Date Prepared			09/16/2013	09/16/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/16/2013	09/17/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			10	10		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.100	0.200	ND	10.3		
Benzo(a)pyrene	0.100	0.200	0.788	14.6		
Benzo(b)fluoranthene	0.100	0.200	0.471	8.64		
Benzo(k)fluoranthene	0.100	0.200	0.279	5.44		
Chrysene	0.100	0.200	0.403	11.8		
Dibenzo(a,h)anthracene	0.100	0.200	ND	ND		
Indeno(1,2,3-cd)pyrene	0.100	0.200	0.558	14.4		
Acenaphthene	0.100	0.200	ND	ND		
Acenaphthylene	0.100	0.200	ND	ND		
Anthracene	0.100	0.200	ND	0.677		
Benzo(g,h,i)perylene	0.100	0.200	0.974	18.9		
Fluoranthene	0.100	0.200	0.889	26.5		
Fluorene	0.100	0.200	ND	0.202		
Naphthalene	0.100	0.200	ND	0.231		
Phenanthrene	0.100	0.200	0.285	6.62		
Pyrene	0.100	0.200	1.17	33.3		
Our Lab I.D.			70642.02	70642.03		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		102	195 s6		



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## ANALYTICAL RESULTS

### Ordered By

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Page: 5

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70642	09/16/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091613IB1

Our Lab I.D.			70642.04			
Client Sample I.D.			P1-S-12			
Date Sampled			09/16/2013			
Date Prepared			09/16/2013			
Preparation Method			3550B			
Date Analyzed			09/17/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			2			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.020	0.040	0.0869			
Benzo(a)pyrene	0.020	0.040	0.227			
Benzo(b)fluoranthene	0.020	0.040	0.0768			
Benzo(k)fluoranthene	0.020	0.040	0.0875			
Chrysene	0.020	0.040	0.190			
Dibenzo(a,h)anthracene	0.020	0.040	ND			
Indeno(1,2,3-cd)pyrene	0.020	0.040	0.205			
Acenaphthene	0.020	0.040	ND			
Acenaphthylene	0.020	0.040	ND			
Anthracene	0.020	0.040	ND			
Benzo(g,h,i)perylene	0.020	0.040	0.260			
Fluoranthene	0.020	0.040	0.282			
Fluorene	0.020	0.040	ND			
Naphthalene	0.020	0.040	ND			
Phenanthrene	0.020	0.040	0.0831			
Pyrene	0.020	0.040	0.385			
Our Lab I.D.			70642.04			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		108			





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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 6

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70642	09/16/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091613IB1; Dup or Spiked Sample: 70646.03; LCS: Clean Sand; QC Prepared: 09/16/2013; QC Analyzed: 09/16/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	123	0.0500	0.0600	124	<1	75-125	<20
Benzo(a)pyrene	0.00200	0.0500	0.0600	110	0.0500	0.0600	110	<1	75-125	<20
Naphthalene	0.00300	0.500	0.570	113	0.500	0.570	114	<1	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.400	100	0.400	0.400	100	<1	75-125	<20

QC Batch No: 091613IB1; Dup or Spiked Sample: 70646.03; LCS: Clean Sand; QC Prepared: 09/16/2013; QC Analyzed: 09/16/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0600	113	75-125						
Benzo(a)pyrene	0.0500	0.0500	107	75-125						
Naphthalene	0.500	0.550	109	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.580	116	75-125						
Acenaphthylene	1.00	1.01	101	75-125						
Anthracene	0.0500	0.0600	113	75-125						
Benzo(b)fluoranthene	0.100	0.110	112	75-125						
Benzo(g,h,i)perylene	0.100	0.120	120	75-125						
Benzo(k)fluoranthene	0.0500	0.0600	117	75-125						
Chrysene	0.0500	0.0600	119	75-125						
Dibenzo(a,h)anthracene	0.100	0.120	120	75-125						
Fluoranthene	0.100	0.120	116	75-125						
Fluorene	0.100	0.110	106	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	103	75-125						
Phenanthrene	0.0500	0.0600	115	75-125						
Pyrene	0.0500	0.0600	115	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.404	101	75-125						



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### Data Qualifiers and Descriptors

#### *Data Qualifier:*

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### *Definition:*

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 7  
Date Received 09/16/2013  
Date Reported 09/17/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70647	09/16/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 7 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



**American Environmental Testing Laboratory Inc.**  
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# CHAIN OF CUSTODY RECORD

No 79284

Page 1 of 1

AETL JOB No. 70647

COMPANY SCG PROJECT MANAGER K. Choyne  
 COMPANY ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_  
555 W. 5th St L.A FAX \_\_\_\_\_  
 PROJECT NAME Alondra Mall PROJECT # \_\_\_\_\_  
 SITE NAME \_\_\_\_\_ PO # \_\_\_\_\_  
 AND ADDRESS \_\_\_\_\_

## ANALYSIS REQUESTED

TEST INSTRUCTIONS & COMMENTS

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1 P1-S-5	70647-01	9/16/13	1050	Soil	1/4 oz	-
2 P1-S-6	70647-02		1055			-
3 P1-S-7	70647-03		1058			-
4 P1-S-8	70647-04		1100			-
5 P1-B-3	70647-05		1102			-
6 P1-B-4	70647-06		1105			-
7 P1-B-5	70647-07		1110			-
8						
9						
10						
11						
12						
13						
14						
15						

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS 7 PROPERLY COOLED  Y / N / NA

CUSTODY SEALS  Y / N / NA SAMPLES INTACT  Y / N / NA

RECEIVED IN GOOD COND  Y / N SAMPLES ACCEPTED  Y / N

TURN AROUND TIME

NORMAL  RUSH  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: <u>[Signature]</u> Printed Name: <u>T. K. Korman</u> Date: <u>9/16/13</u> Time: <u>1220</u>	Signature: _____ Printed Name: _____ Date: _____ Time: _____	Signature: <u>[Signature]</u> Printed Name: <u>Thomas Korman</u> Date: <u>9/16/13</u> Time: <u>1520</u>
Signature: _____ Printed Name: _____ Date: _____ Time: _____	Signature: _____ Printed Name: _____ Date: _____ Time: _____	Signature: <u>[Signature]</u> Printed Name: <u>John Claude</u> Date: <u>9/16/13</u> Time: <u>1520</u>

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/16/2013  
Date Reported 09/17/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70647	09/16/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 7 samples with the following specification on 09/16/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	
70647.01	P1-S-5	09/16/2013	Soil	1	
70647.02	P1-S-6	09/16/2013	Soil	1	
70647.03	P1-S-7	09/16/2013	Soil	1	
	<b>Method ^ Submethod</b>	<b>Req Date</b>	<b>Priority</b>	<b>TAT</b>	<b>Units</b>
	(8310)	09/17/2013	2	Rush	mg/Kg
70647.04	P1-S-8	09/16/2013	Soil	1	
70647.05	P1-B-3	09/16/2013	Soil	1	
70647.06	P1-B-4	09/16/2013	Soil	1	
70647.07	P1-B-5	09/16/2013	Soil	1	

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70647	09/16/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091613IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			09/16/2013			
Preparation Method			3550B			
Date Analyzed			09/16/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.010	0.020	ND			
Benzo(a)pyrene	0.010	0.020	ND			
Benzo(b)fluoranthene	0.010	0.020	ND			
Benzo(k)fluoranthene	0.010	0.020	ND			
Chrysene	0.010	0.020	ND			
Dibenzo(a,h)anthracene	0.010	0.020	ND			
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND			
Acenaphthene	0.010	0.020	ND			
Acenaphthylene	0.010	0.020	ND			
Anthracene	0.010	0.020	ND			
Benzo(g,h,i)perylene	0.010	0.020	ND			
Fluoranthene	0.010	0.020	ND			
Fluorene	0.010	0.020	ND			
Naphthalene	0.010	0.020	ND			
Phenanthrene	0.010	0.020	ND			
Pyrene	0.010	0.020	ND			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		98.3			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70647	09/16/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091613IB1

Our Lab I.D.			70647.01			
Client Sample I.D.			PI-S-5			
Date Sampled			09/16/2013			
Date Prepared			09/16/2013			
Preparation Method			3550B			
Date Analyzed			09/17/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			2			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.020	0.040	0.0726			
Benzo(a)pyrene	0.020	0.040	0.255			
Benzo(b)fluoranthene	0.020	0.040	0.147			
Benzo(k)fluoranthene	0.020	0.040	0.0961			
Chrysene	0.020	0.040	0.186			
Dibenzo(a,h)anthracene	0.020	0.040	ND			
Indeno(1,2,3-cd)pyrene	0.020	0.040	0.252			
Acenaphthene	0.020	0.040	ND			
Acenaphthylene	0.020	0.040	ND			
Anthracene	0.020	0.040	ND			
Benzo(g,h,i)perylene	0.020	0.040	0.376			
Fluoranthene	0.020	0.040	0.321			
Fluorene	0.020	0.040	ND			
Naphthalene	0.020	0.040	ND			
Phenanthrene	0.020	0.040	0.100			
Pyrene	0.020	0.040	0.464			
Our Lab I.D.			70647.01			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		90.5			





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## ANALYTICAL RESULTS

### Ordered By

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 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70647	09/16/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091613IB1

Our Lab I.D.			70647.02	70647.03		
Client Sample I.D.			PI-S-6	PI-S-7		
Date Sampled			09/16/2013	09/16/2013		
Date Prepared			09/16/2013	09/16/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/17/2013	09/17/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			5	5		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.050	0.100	0.250	0.184		
Benzo(a)pyrene	0.050	0.100	1.00	0.964		
Benzo(b)fluoranthene	0.050	0.100	0.703	0.653		
Benzo(k)fluoranthene	0.050	0.100	0.384	0.392		
Chrysene	0.050	0.100	0.793	0.595		
Dibenzo(a,h)anthracene	0.050	0.100	ND	ND		
Indeno(1,2,3-cd)pyrene	0.050	0.100	0.864	0.900		
Acenaphthene	0.050	0.100	ND	ND		
Acenaphthylene	0.050	0.100	ND	ND		
Anthracene	0.050	0.100	ND	ND		
Benzo(g,h,i)perylene	0.050	0.100	1.04	0.844		
Fluoranthene	0.050	0.100	1.45	1.52		
Fluorene	0.050	0.100	ND	ND		
Naphthalene	0.050	0.100	0.0635J	0.0519J		
Phenanthrene	0.050	0.100	0.653	0.735		
Pyrene	0.050	0.100	1.94	1.78		
Our Lab I.D.			70647.02	70647.03		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		85.8	83.0		



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 5

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70647	09/16/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091613IB1

Our Lab I.D.			70647.04	70647.05	70647.06		
Client Sample I.D.			PI-S-8	PI-B-3	PI-B-4		
Date Sampled			09/16/2013	09/16/2013	09/16/2013		
Date Prepared			09/16/2013	09/16/2013	09/16/2013		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			09/17/2013	09/17/2013	09/17/2013		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			2	2	2		
Analytes	MDL	PQL	Results	Results	Results		
Benzo(a)anthracene	0.020	0.040	0.319	0.190	0.228		
Benzo(a)pyrene	0.020	0.040	0.837	0.555	0.515		
Benzo(b)fluoranthene	0.020	0.040	0.529	0.374	0.323		
Benzo(k)fluoranthene	0.020	0.040	0.290	0.224	0.195		
Chrysene	0.020	0.040	0.576	0.371	0.402		
Dibenzo(a,h)anthracene	0.020	0.040	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.020	0.040	0.865	0.415	0.488		
Acenaphthene	0.020	0.040	ND	ND	ND		
Acenaphthylene	0.020	0.040	ND	ND	ND		
Anthracene	0.020	0.040	ND	ND	ND		
Benzo(g,h,i)perylene	0.020	0.040	1.18	0.561	0.643		
Fluoranthene	0.020	0.040	1.11	1.03	0.601		
Fluorene	0.020	0.040	ND	0.0284J	ND		
Naphthalene	0.020	0.040	0.0202J	0.0424	0.0222J		
Phenanthrene	0.020	0.040	0.266	0.714	0.160		
Pyrene	0.020	0.040	1.50	1.07	0.802		
Our Lab I.D.			70647.04	70647.05	70647.06		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
p-Terphenyl-D14	75-125		79.8	80.0	101		



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 6

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70647	09/16/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091613IB1

Our Lab I.D.	70647.07		
Client Sample I.D.	P1-B-5		
Date Sampled	09/16/2013		
Date Prepared	09/16/2013		
Preparation Method	3550B		
Date Analyzed	09/17/2013		
Matrix	Soil		
Units	mg/Kg		
Dilution Factor	1		
Analytes	MDL	PQL	Results
Benzo(a)anthracene	0.010	0.020	ND
Benzo(a)pyrene	0.010	0.020	ND
Benzo(b)fluoranthene	0.010	0.020	ND
Benzo(k)fluoranthene	0.010	0.020	ND
Chrysene	0.010	0.020	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND
Acenaphthene	0.010	0.020	ND
Acenaphthylene	0.010	0.020	ND
Anthracene	0.010	0.020	ND
Benzo(g,h,i)perylene	0.010	0.020	ND
Fluoranthene	0.010	0.020	0.0377
Fluorene	0.010	0.020	ND
Naphthalene	0.010	0.020	ND
Phenanthrene	0.010	0.020	ND
Pyrene	0.010	0.020	0.0156J
Our Lab I.D.	70647.07		
Surrogates	%Rec.Limit	% Rec.	
p-Terphenyl-D14	75-125	86.0	



# American Environmental Testing Laboratory Inc.

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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 7

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70647	09/16/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091613IB1; Dup or Spiked Sample: 70646.03; LCS: Clean Sand; QC Prepared: 09/16/2013; QC Analyzed: 09/16/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	123	0.0500	0.0600	124	<1	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0600	116	0.0500	0.0600	116	<1	75-125	<20
Naphthalene	0.00	0.500	0.570	113	0.500	0.570	115	1.75	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.400	100	0.400	0.400	100	<1	75-125	<20

QC Batch No: 091613IB1; Dup or Spiked Sample: 70646.03; LCS: Clean Sand; QC Prepared: 09/16/2013; QC Analyzed: 09/16/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0600	120	75-125						
Benzo(a)pyrene	0.0500	0.0500	107	75-125						
Naphthalene	0.500	0.550	109	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.580	116	75-125						
Acenaphthylene	1.00	1.01	101	75-125						
Anthracene	0.0500	0.0600	113	75-125						
Benzo(b)fluoranthene	0.100	0.110	112	75-125						
Benzo(g,h,i)perylene	0.100	0.120	120	75-125						
Benzo(k)fluoranthene	0.0500	0.0600	117	75-125						
Chrysene	0.0500	0.0600	119	75-125						
Dibenzo(a,h)anthracene	0.100	0.120	120	75-125						
Fluoranthene	0.100	0.120	116	75-125						
Fluorene	0.100	0.110	106	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	103	75-125						
Phenanthrene	0.0500	0.0600	115	75-125						
Pyrene	0.0500	0.0600	115	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.404	101	75-125						



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 09/18/2013  
Date Reported 09/18/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70681	09/18/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP  
718 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 3 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



**CHAIN OF CUSTODY RECORD**

No 79282

70681

Page 1 of 1

COMPANY: So Cal Gas PROJECT MANAGER: K. Chayne  
 COMPANY ADDRESS: 555 W. 5th St. LA PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
 PROJECT NAME: Fomer Alameda M61 PROJECT #: \_\_\_\_\_  
 SITE NAME AND ADDRESS: FSC Alameda Blvd PO #: \_\_\_\_\_

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TEST INSTRUCTIONS & COMMENTS
1	70681-01	9/18/13	0805	SOIL	402/1	-	D=21
2	70681-02		0810			-	D=15
3	70681-03		0815			-	D=21
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: 3 PROPERLY COOLED Y/N/NA  
 CUSTODY SEALS Y/N/NA SAMPLES INTACT Y/N/NA  
 RECEIVED IN GOOD COND. Y/N SAMPLES ACCEPTED Y/N

TURN AROUND TIME  
 NORMAL  RUSH  SAME DAY  2 DAYS  
 NEXT DAY  3 DAYS

RELINQUISHED BY SAMPLER: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: 09/18/13 Time: 1005

RECEIVED BY: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

RELINQUISHED BY: 1. \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

RECEIVED BY: 2. \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

RELINQUISHED BY: 3. \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

RECEIVED BY: 3. \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: 09/18/13 Time: 1005





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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/18/2013  
Date Reported 09/18/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70681	09/18/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 3 samples with the following specification on 09/18/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	
70681.01	P1-S-13	09/18/2013	Soil	1	
70681.02	P1-S-14	09/18/2013	Soil	1	
	<b>Method ^ Submethod</b>	<b>Req Date</b>	<b>Priority</b>	<b>TAT</b>	<b>Units</b>
	(8310)	09/18/2013	1	Rush	mg/Kg
70681.03	P1-S-15	09/18/2013	Soil	1	

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70681	09/18/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091813IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			09/18/2013			
Preparation Method			3550B			
Date Analyzed			09/18/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.010	0.020	ND			
Benzo(a)pyrene	0.010	0.020	ND			
Benzo(b)fluoranthene	0.010	0.020	ND			
Benzo(k)fluoranthene	0.010	0.020	ND			
Chrysene	0.010	0.020	ND			
Dibenzo(a,h)anthracene	0.010	0.020	ND			
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND			
Acenaphthene	0.010	0.020	ND			
Acenaphthylene	0.010	0.020	ND			
Anthracene	0.010	0.020	ND			
Benzo(g,h,i)perylene	0.010	0.020	ND			
Fluoranthene	0.010	0.020	ND			
Fluorene	0.010	0.020	ND			
Naphthalene	0.010	0.020	ND			
Phenanthrene	0.010	0.020	ND			
Pyrene	0.010	0.020	ND			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		101			



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70681	09/18/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091813IB1

Our Lab I.D.			70681.01	70681.02	70681.03		
Client Sample I.D.			PI-S-13	PI-S-14	PI-S-15		
Date Sampled			09/18/2013	09/18/2013	09/18/2013		
Date Prepared			09/18/2013	09/18/2013	09/18/2013		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			09/18/2013	09/18/2013	09/18/2013		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			2	2	2		
Analytes	MDL	PQL	Results	Results	Results		
Benzo(a)anthracene	0.020	0.040	0.391	1.02	4.83		
Benzo(a)pyrene	0.020	0.040	0.853	1.67	4.62		
Benzo(b)fluoranthene	0.020	0.040	0.535	0.983	3.55		
Benzo(k)fluoranthene	0.020	0.040	0.324	0.627	2.11		
Chrysene	0.020	0.040	0.677	1.17	5.76		
Dibenzo(a,h)anthracene	0.020	0.040	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.020	0.040	0.690	1.50	3.98		
Acenaphthene	0.020	0.040	ND	ND	0.161		
Acenaphthylene	0.020	0.040	ND	ND	0.272		
Anthracene	0.020	0.040	ND	0.0398J	0.0577		
Benzo(g,h,i)perylene	0.020	0.040	0.824	1.98	4.79		
Fluoranthene	0.020	0.040	1.15	2.64	14.7		
Fluorene	0.020	0.040	ND	0.0623	1.19		
Naphthalene	0.020	0.040	0.0283J	0.0820	11.9		
Phenanthrene	0.020	0.040	0.398	1.54	23.1		
Pyrene	0.020	0.040	1.39	3.36	17.4		
Our Lab I.D.			70681.01	70681.02	70681.03		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
p-Terphenyl-D14	75-125		89.5	80.0	435 s6		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70681	09/18/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 0918131B1; Dup or Spiked Sample: 0918; LCS: Clean Sand; QC Prepared: 09/18/2013; QC Analyzed: 09/18/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	117	0.0500	0.0600	120	2.53	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0500	106	0.0500	0.0500	108	1.87	75-125	<20
Naphthalene	0.00	0.500	0.550	111	0.500	0.550	110	<1	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.383	95.8	0.400	0.376	94.0	1.88	75-125	<20

QC Batch No: 0918131B1; Dup or Spiked Sample: 0918; LCS: Clean Sand; QC Prepared: 09/18/2013; QC Analyzed: 09/18/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0600	124	75-125						
Benzo(a)pyrene	0.0500	0.0600	110	75-125						
Naphthalene	0.500	0.570	113	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.600	119	75-125						
Acenaphthylene	1.00	1.03	103	75-125						
Anthracene	0.0500	0.0600	115	75-125						
Benzo(b)fluoranthene	0.100	0.110	113	75-125						
Benzo(g,h,i)perylene	0.100	0.120	118	75-125						
Benzo(k)fluoranthene	0.0500	0.0600	117	75-125						
Chrysene	0.0500	0.0600	123	75-125						
Dibenzo(a,h)anthracene	0.100	0.120	122	75-125						
Fluoranthene	0.100	0.120	117	75-125						
Fluorene	0.100	0.110	109	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0600	111	75-125						
Phenanthrene	0.0500	0.0600	118	75-125						
Pyrene	0.0500	0.0600	118	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.398	99.5	75-125						



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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 09/19/2013  
Date Reported 09/20/2013

Telephone: (213)244-5832  
Attention: Kethleen Cheyne

Job Number	Order Date	Client
70696	09/19/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP  
718 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



**American Environmental Testing Laboratory Inc.**  
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 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

# CHAIN OF CUSTODY RECORD

No 79277

AETL JOB No. **70696** Page 1 of 1

COMPANY: **So Cal Gro** PROJECT MANAGER: **H. Coyne**

COMPANY ADDRESS: **555 W. 5th St., LA** PHONE: **213-260-1487** FAX: \_\_\_\_\_

PROJECT NAME: **Fernando M.P.** PROJECT #: \_\_\_\_\_ PO #: \_\_\_\_\_

SITE NAME AND ADDRESS: \_\_\_\_\_

ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
1	<b>PM 8310</b>		
2	<b>X</b>		
3	<b>2</b>		
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1						
2	<b>70696-01</b>	<b>9/19/13</b>	<b>0852</b>	<b>soil</b>	<b>1/4oz</b>	<b>-</b>
3	<b>70696-02</b>	<b>9/19/13</b>	<b>0900</b>	<b>↓</b>	<b>↓</b>	<b>-</b>
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: **2** PROPERLY COOLED: **Y/N/NA**

CUSTODY SEALS: **Y/N/NA** SAMPLES INTACT: **Y/N/NA**

RECEIVED IN GOOD COND.: **Y/N** SAMPLES ACCEPTED: **Y/N**

TURN AROUND TIME:  NORMAL  RUSH  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: <b>[Signature]</b> Printed Name: <b>F. Lopez</b> Date: <b>9/19/13</b> Time: <b>1110</b>	Signature: <b>[Signature]</b> Printed Name: <b>[Signature]</b> Date: <b>9/19/13</b> Time: <b>1135</b>	Signature: <b>[Signature]</b> Printed Name: <b>[Signature]</b> Date: <b>9/19/13</b> Time: <b>1135</b>

RECEIVED BY: **1.** RECEIVED BY: **2.** RECEIVED BY: **3.**

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



## JIM LIN

---

**From:** Mascioni, Fabrizio [Fabrizio.Mascioni@parsons.com]  
**Sent:** Thursday, September 19, 2013 11:47 AM  
**To:** 'JIM LIN'  
**Cc:** Bettahar, Mehdi  
**Subject:** Soil samples

**Importance:** High

Jim,

The two samples that we submitted today (P1-S-20 and P1-S-21), is there any way you guys could rename them to P1-S-16 and P1-S-17, respectively?

We decided not to submit other samples so I would prefer to not have gaps in the ID numbers.  
Thank you!

Fabrizio Mascioni, P.G.  
Principal Geologist  
PARSONS  
100 West Walnut Street  
Pasadena, CA 91124  
Phone: (626) 440-3226  
Cellphone: (310) 569-3677  
Fax: (626) 440-2993



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/19/2013  
Date Reported 09/20/2013

Telephone: (213)244-5832  
Attention: Kethleen Cheyne

Job Number	Order Date	Client
70696	09/19/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 2 samples with the following specification on 09/19/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70696.01	P1-S-16	09/19/2013	Soil	1
70696.02	P1-S-17	09/19/2013	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	09/20/2013	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kethleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70696	09/19/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092013IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			09/20/2013			
Preparation Method			3550B			
Date Analyzed			09/20/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.010	0.020	ND			
Benzo(a)pyrene	0.010	0.020	ND			
Benzo(b)fluoranthene	0.010	0.020	ND			
Benzo(k)fluoranthene	0.010	0.020	ND			
Chrysene	0.010	0.020	ND			
Dibenzo(a,h)anthracene	0.010	0.020	ND			
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND			
Acenaphthene	0.010	0.020	ND			
Acenaphthylene	0.010	0.020	ND			
Anthracene	0.010	0.020	ND			
Benzo(g,h,i)perylene	0.010	0.020	ND			
Fluoranthene	0.010	0.020	ND			
Fluorene	0.010	0.020	ND			
Naphthalene	0.010	0.020	ND			
Phenanthrene	0.010	0.020	ND			
Pyrene	0.010	0.020	ND			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		105			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kethleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70696	09/19/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092013IB1

Our Lab I.D.			70696.01	70696.02		
Client Sample I.D.			P1-S-16	P1-S-17		
Date Sampled			09/19/2013	09/19/2013		
Date Prepared			09/20/2013	09/20/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/20/2013	09/20/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			2	2		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.020	0.040	0.151	0.532		
Benzo(a)pyrene	0.020	0.040	0.561	0.878		
Benzo(b)fluoranthene	0.020	0.040	0.313	0.578		
Benzo(k)fluoranthene	0.020	0.040	0.192	0.338		
Chrysene	0.020	0.040	0.401	0.605		
Dibenzo(a,h)anthracene	0.020	0.040	ND	ND		
Indeno(1,2,3-cd)pyrene	0.020	0.040	0.532	0.761		
Acenaphthene	0.020	0.040	ND	ND		
Acenaphthylene	0.020	0.040	ND	ND		
Anthracene	0.020	0.040	ND	0.0207J		
Benzo(g,h,i)perylene	0.020	0.040	0.754	1.07		
Fluoranthene	0.020	0.040	0.615	1.46		
Fluorene	0.020	0.040	ND	0.0225J		
Naphthalene	0.020	0.040	ND	0.0411		
Phenanthrene	0.020	0.040	0.139	0.954		
Pyrene	0.020	0.040	0.991	1.81		
Our Lab I.D.			70696.01	70696.02		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		81.0	77.5		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 718 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kethleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70696	09/19/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092013IB1; Dup or Spiked Sample: 70721.15; LCS: Clean Sand; QC Prepared: 09/20/2013; QC Analyzed: 09/20/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0515	103	0.0500	0.0535	107	3.8	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0474	94.8	0.0500	0.0495	99.0	4.3	75-125	<20
Naphthalene	0.00	0.500	0.491	98.2	0.500	0.510	102	3.8	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.391	97.8	0.400	0.404	101	3.2	75-125	<20

QC Batch No: 092013IB1; Dup or Spiked Sample: 70721.15; LCS: Clean Sand; QC Prepared: 09/20/2013; QC Analyzed: 09/20/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0545	109	75-125						
Benzo(a)pyrene	0.0500	0.0505	101	75-125						
Naphthalene	0.500	0.510	102	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.545	109	75-125						
Acenaphthylene	1.00	0.946	94.6	75-125						
Anthracene	0.0500	0.0525	105	75-125						
Benzo(b)fluoranthene	0.100	0.103	103	75-125						
Benzo(g,h,i)perylene	0.100	0.107	107	75-125						
Benzo(k)fluoranthene	0.0500	0.0550	110	75-125						
Chrysene	0.0500	0.0540	108	75-125						
Dibenzo(a,h)anthracene	0.100	0.113	113	75-125						
Fluoranthene	0.100	0.108	108	75-125						
Fluorene	0.100	0.0997	99.7	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0535	107	75-125						
Phenanthrene	0.0500	0.0540	108	75-125						
Pyrene	0.0500	0.0525	105	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.416	104	75-125						



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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 3  
Date Received 09/20/2013  
Date Reported 09/23/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70720	09/20/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





American Environmental Testing Laboratory Inc.  
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# CHAIN OF CUSTODY RECORD

No. 79279

AETL JOB No. 70720

Page 1 of 1

COMPANY: So Cal Gas PROJECT MANAGER: M. Layne  
 COMPANY ADDRESS: 555 W 5th St. PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
 PROJECT NAME: Fernando Alameda Mobil PROJECT #: \_\_\_\_\_  
 SITE NAME AND ADDRESS: 732 S Alameda Blvd L.A. PO #: \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS			
1	P1-5-18	70720.01	9/20/13	Soil	4oz/1	—								
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: 1 PROPERLY COOLED:  Y/N/NA

CUSTODY SEALS:  Y/N/NA SAMPLES INTACT:  Y/N/NA

RECEIVED IN GOOD COND:  Y/N SAMPLES ACCEPTED:  Y/N

TURN AROUND TIME:  SAME DAY  RUSH  2 DAYS  3 DAYS

<b>1. RELINQUISHED BY SAMPLER:</b>	<b>2. RELINQUISHED BY:</b>	<b>3. RELINQUISHED BY:</b>
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>
Printed Name: <u>F. Martin</u>	Printed Name: <u>[Name]</u>	Printed Name: <u>[Name]</u>
Date: <u>9/20/13</u> Time: <u>1353</u>	Date: <u>9/20/13</u> Time: <u>1415</u>	Date: <u>9/20/13</u> Time: <u>1415</u>
<b>RECEIVED BY:</b> 1.	<b>RECEIVED BY:</b> 2.	<b>RECEIVED BY:</b> 3.
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>
Printed Name: <u>[Name]</u>	Printed Name: <u>[Name]</u>	Printed Name: <u>[Name]</u>
Date: <u>9/20/13</u> Time: <u>1353</u>	Date: <u>9/20/13</u> Time: <u>1415</u>	Date: <u>9/20/13</u> Time: <u>1415</u>
<b>RECEIVED BY:</b> 1.	<b>RECEIVED BY:</b> 2.	<b>RECEIVED BY:</b> 3.
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>
Printed Name: <u>[Name]</u>	Printed Name: <u>[Name]</u>	Printed Name: <u>[Name]</u>
Date: <u>9/20/13</u> Time: <u>1353</u>	Date: <u>9/20/13</u> Time: <u>1415</u>	Date: <u>9/20/13</u> Time: <u>1415</u>

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/20/2013  
Date Reported 09/23/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70720	09/20/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 09/20/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70720.01	P1-S-18	09/20/2013	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	09/23/2013	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70720	09/20/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092013IB1

Our Lab I.D.			Method Blank	70720.01		
Client Sample I.D.				PI-S-18		
Date Sampled				09/20/2013		
Date Prepared			09/20/2013	09/20/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/20/2013	09/20/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND		
Benzo(a)pyrene	0.010	0.020	ND	0.028		
Benzo(b)fluoranthene	0.010	0.020	ND	0.018J		
Benzo(k)fluoranthene	0.010	0.020	ND	0.011J		
Chrysene	0.010	0.020	ND	0.018J		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.018J		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	0.035		
Fluoranthene	0.010	0.020	ND	0.035		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	0.014J		
Pyrene	0.010	0.020	ND	0.054		
Our Lab I.D.			Method Blank	70720.01		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		105	100		



# American Environmental Testing Laboratory Inc.

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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70720	09/20/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092013IB1; Dup or Spiked Sample: 70721.15; LCS: Clean Sand; QC Prepared: 09/20/2013; QC Analyzed: 09/20/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0515	103	0.0500	0.0535	107	3.8	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0474	94.8	0.0500	0.0495	99.0	4.3	75-125	<20
Naphthalene	0.00	0.500	0.491	98.2	0.500	0.510	102	3.8	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.391	97.8	0.400	0.404	101	3.2	75-125	<20

QC Batch No: 092013IB1; Dup or Spiked Sample: 70721.15; LCS: Clean Sand; QC Prepared: 09/20/2013; QC Analyzed: 09/20/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0545	109	75-125						
Benzo(a)pyrene	0.0500	0.0505	101	75-125						
Naphthalene	0.500	0.510	102	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.545	109	75-125						
Acenaphthylene	1.00	0.946	94.6	75-125						
Anthracene	0.0500	0.0525	105	75-125						
Benzo(b)fluoranthene	0.100	0.103	103	75-125						
Benzo(g,h,i)perylene	0.100	0.107	107	75-125						
Benzo(k)fluoranthene	0.0500	0.0550	110	75-125						
Chrysene	0.0500	0.0540	108	75-125						
Dibenzo(a,h)anthracene	0.100	0.113	113	75-125						
Fluoranthene	0.100	0.108	108	75-125						
Fluorene	0.100	0.0997	99.7	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0535	107	75-125						
Phenanthrene	0.0500	0.0540	108	75-125						
Pyrene	0.0500	0.0525	105	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.416	104	75-125						



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



## American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 3  
Date Received 09/24/2013  
Date Reported 09/25/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70748	09/24/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



**American Environmental Testing Laboratory Inc.**  
 2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
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# CHAIN OF CUSTODY RECORD

No 74427

Page 1 of 1

AETL JOB No. 70748

PROJECT MANAGER *M. Cheyue*

COMPANY *So Cal Gas* PROJECT MANAGER *M. Cheyue*

COMPANY ADDRESS *555 W. 5th St, L.A. CA* PHONE \_\_\_\_\_ FAX \_\_\_\_\_

PROJECT NAME *Feiner Almeida M6.C* PROJECT # \_\_\_\_\_

SITE NAME AND ADDRESS *FSC Alameda Blvd, L.A.* PO # \_\_\_\_\_

## ANALYSIS REQUESTED

TEST INSTRUCTIONS & COMMENTS

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	<i>PI-ST-PH 70748.01</i>	<i>9/24/13</i>	<i>1600</i>	<i>SQL</i>	<i>400/1 Jar</i>	<i>-</i>
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

*0158 Hsd X*

*STP 19*  
*P1-S-19 QAR*

## SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

RELINQUISHED BY SAMPLER:	1.	2.	3.
Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:
Printed Name: <i>F. Mascara</i>	Printed Name:	Printed Name:	Printed Name:
Date: <i>9/24/13</i> Time: <i>1630</i>	Date:	Date:	Date:
RECEIVED BY:	RECEIVED BY:	RECEIVED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:	Printed Name:
Date:	Date:	Date:	Date:
Time:	Time:	Time:	Time:

TURN AROUND TIME

NORMAL     RUSH     SAME DAY     2 DAYS  
 NEXT DAY     3 DAYS

*RECEIVED BY LABORATORY: AETL 3.*  
*Signature: [Signature]*  
*Printed Name: [Name]*  
*Date: 9/24/13 Time: 1630*





# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/24/2013  
Date Reported 09/25/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70748	09/24/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 09/24/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70748.01	P1-S-19	09/24/2013	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	09/24/2013	1	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA  
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70748	09/24/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092513IB1

Our Lab I.D.			Method Blank	70748.01		
Client Sample I.D.				PI-S-19		
Date Sampled				09/24/2013		
Date Prepared			09/25/2013	09/25/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/25/2013	09/25/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	0.237		
Benzo(a)pyrene	0.010	0.020	ND	0.454		
Benzo(b)fluoranthene	0.010	0.020	ND	0.266		
Benzo(k)fluoranthene	0.010	0.020	ND	0.169		
Chrysene	0.010	0.020	ND	0.411		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.383		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	0.216		
Anthracene	0.010	0.020	ND	0.0274		
Benzo(g,h,i)perylene	0.010	0.020	ND	0.564		
Fluoranthene	0.010	0.020	ND	0.891		
Fluorene	0.010	0.020	ND	0.112		
Naphthalene	0.010	0.020	ND	0.216		
Phenanthrene	0.010	0.020	ND	1.11		
Pyrene	0.010	0.020	ND	1.13		
Our Lab I.D.			Method Blank	70748.01		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		102	98.8		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70748	09/24/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092513IB1; Dup or Spiked Sample: B092513IB1; LCS: Clean Sand; QC Prepared: 09/25/2013; QC Analyzed: 09/25/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0520	104	0.0500	0.0515	103	<1	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0476	95.2	0.0500	0.0467	93.4	1.9	75-125	<20
Naphthalene	0.00	0.500	0.505	101	0.500	0.488	97.6	3.4	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.404	101	0.400	0.394	98.5	2.5	75-125	<20

QC Batch No: 092513IB1; Dup or Spiked Sample: B092513IB1; LCS: Clean Sand; QC Prepared: 09/25/2013; QC Analyzed: 09/25/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0530	106	75-125						
Benzo(a)pyrene	0.0500	0.0485	97.0	75-125						
Naphthalene	0.500	0.510	102	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.535	107	75-125						
Acenaphthylene	1.00	0.935	93.5	75-125						
Anthracene	0.0500	0.0520	104	75-125						
Benzo(b)fluoranthene	0.100	0.102	102	75-125						
Benzo(g,h,i)perylene	0.100	0.0950	95.0	75-125						
Benzo(k)fluoranthene	0.0500	0.0575	115	75-125						
Chrysene	0.0500	0.0540	108	75-125						
Dibenzo(a,h)anthracene	0.100	0.107	107	75-125						
Fluoranthene	0.100	0.107	107	75-125						
Fluorene	0.100	0.0955	95.5	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0439	87.8	75-125						
Phenanthrene	0.0500	0.0530	106	75-125						
Pyrene	0.0500	0.0510	102	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.404	101	75-125						



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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 3  
Date Received 11/07/2013  
Date Reported 11/11/2013

Telephone: (213)244-3292  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71256	11/07/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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# CHAIN OF CUSTODY RECORD

No 79286

AETL JOB No. 71256

Page 1 of 1

COMPANY So Cal Gas PROJECT MANAGER Kathleen Chayne

COMPANY ADDRESS 555 W. 5th Street Los Angeles, CA PHONE \_\_\_\_\_ FAX \_\_\_\_\_ PROJECT # \_\_\_\_\_

PROJECT NAME Former Alameda 4761 PO # \_\_\_\_\_

SITE NAME 732 S. Alameda St. ADDRESS Los Angeles, CA

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	P2-B1-2	71256.01 11/7/13	0920	SOIL	1/4oz	-
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

TURN AROUND TIME

PROPERLY COOLED  N / NA  
 SAMPLES INTACT  N / NA  
 SAMPLES ACCEPTED  N

NORMAL  RUSH  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
8310 PMS			
	X		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

RELINQUISHED BY SAMPLER: Signature: <u>[Signature]</u> Printed Name: <u>Rabobba Masam</u> Date: <u>11/7/13</u> Time: <u>1045</u>	RELINQUISHED BY: Signature: _____ Printed Name: _____ Date: _____ Time: _____	RELINQUISHED BY: Signature: _____ Printed Name: _____ Date: _____ Time: _____
RECEIVED BY: Signature: <u>[Signature]</u> Printed Name: <u>PAGE</u> Date: <u>11/27/13</u> Time: <u>1045</u>	RECEIVED BY: Signature: _____ Printed Name: _____ Date: _____ Time: _____	RECEIVED BY: Signature: _____ Printed Name: _____ Date: _____ Time: _____

NORMAL  RUSH  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/07/2013  
Date Reported 11/11/2013

Telephone: (213)244-3292  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71256	11/07/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 11/07/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	
71256.01	P2-B1-2	11/07/2013	Soil	1	
Method ^ Submethod		Req Date	Priority	TAT	Units
(8310)		11/11/2013	3	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-3292

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71256	11/07/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 110813IB1

Our Lab I.D.			Method Blank	71256.01		
Client Sample I.D.				P2-B1-2		
Date Sampled				11/07/2013		
Date Prepared			11/08/2013	11/08/2013		
Preparation Method			3550B	3550B		
Date Analyzed			11/08/2013	11/08/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND		
Benzo(a)pyrene	0.010	0.020	ND	0.0214		
Benzo(b)fluoranthene	0.010	0.020	ND	0.0143J		
Benzo(k)fluoranthene	0.010	0.020	ND	ND		
Chrysene	0.010	0.020	ND	0.0123J		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.0194J		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	0.0285		
Fluoranthene	0.010	0.020	ND	0.0155J		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	ND		
Pyrene	0.010	0.020	ND	0.0233		
Our Lab I.D.			Method Blank	71256.01		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		106	107		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-3292

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71256	11/07/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 110813IB1; Dup or Spiked Sample: 71256.01; LCS: Clean Sand; QC Prepared: 11/08/2013; QC Analyzed: 11/08/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0540	108	0.0500	0.0515	103	4.74	75-125	<20
Benzo(a)pyrene	0.0210	0.0500	0.0681	94.2	0.0500	0.0630	84.0	11.4	75-125	<20
Naphthalene	0.00	0.500	0.500	100	0.500	0.510	102	1.98	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.428	107	0.400	0.440	110	2.80	75-125	<20

QC Batch No: 110813IB1; Dup or Spiked Sample: 71256.01; LCS: Clean Sand; QC Prepared: 11/08/2013; QC Analyzed: 11/08/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzo(a)anthracene	0.0500	0.0560	112	0.0500	0.0565	113	<1	75-125	<20
Benzo(a)pyrene	0.0500	0.0491	98.2	0.0500	0.0500	100	1.82	75-125	<20
Naphthalene	0.500	0.505	101	0.500	0.520	104	2.93	75-125	<20
<b>LCS</b>									
Acenaphthene	0.500	0.540	108	0.500	0.550	110	1.83	75-125	<20
Acenaphthylene	1.00	0.920	91.9	1.00	0.940	94.2	2.47	75-125	<20
Anthracene	0.0500	0.0500	99.6	0.0500	0.0500	100	<1	75-125	<20
Benzo(b)fluoranthene	0.100	0.100	100	0.100	0.100	102	1.98	75-125	<20
Benzo(g,h,i)perylene	0.100	0.100	99.3	0.100	0.110	107	7.46	75-125	<20
Benzo(k)fluoranthene	0.0500	0.0500	103	0.0500	0.0500	105	1.92	75-125	<20
Chrysene	0.0500	0.0500	110	0.0500	0.0600	113	2.69	75-125	<20
Dibenzo(a,h)anthracene	0.100	0.110	109	0.100	0.110	111	1.82	75-125	<20
Fluoranthene	0.100	0.110	105	0.100	0.110	106	<1	75-125	<20
Fluorene	0.100	0.0900	94.7	0.100	0.100	96.2	1.57	75-125	<20
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	105	0.0500	0.0500	108	2.82	75-125	<20
Phenanthrene	0.0500	0.0500	107	0.0500	0.0500	110	2.76	75-125	<20
Pyrene	0.0500	0.0500	107	0.0500	0.0500	108	<1	75-125	<20
<b>Surrogates</b>									
p-Terphenyl-D14	0.400	0.446	112	0.400	0.452	113	<1	75-125	<20



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



## American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/18/2013  
Date Reported 11/19/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71367	11/18/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 5 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



**American Environmental Testing Laboratory Inc.**  
 2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

# CHAIN OF CUSTODY RECORD

No 79288

COMPANY Southern California 625 PROJECT MANAGER Kathleen Chagny  
 COMPANY ADDRESS 555 W. 5th St. Los Angeles, CA PHONE \_\_\_\_\_ FAX \_\_\_\_\_  
 PROJECT NAME Joson Alameda Mobil oilfield PROJECT # \_\_\_\_\_  
 SITE NAME \_\_\_\_\_ PO # \_\_\_\_\_  
 AND \_\_\_\_\_  
 ADDRESS \_\_\_\_\_

AETL JOB No. 71367

Page 1 of 1

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS			
							1	2	3				
1	P2-B2-3	7/13/02	0930	soil	1/902	-							
2	P2-B3-3	7/13/02	0945										
3	P2-B3-3D	7/13/02	0945										
4	P2-B4-3	7/13/02	0950										
5	P2-B5-2.5	7/13/02	0955										
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
<b>SAMPLE RECEIPT - TO BE FILLED BY LABORATORY</b>							RELINQUISHED BY SAMPLER:	1.	RELINQUISHED BY:	2.	RELINQUISHED BY:	3.	
TOTAL NUMBER OF CONTAINERS							5	Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>	
CUSTODY SEALS Y/N/NA							PROPERLY COOLED Y/N/NA	Printed Name: <u>[Name]</u>		Printed Name: <u>[Name]</u>		Printed Name: <u>[Name]</u>	
RECEIVED IN GOOD COND. Y/N							SAMPLES INTACT Y/N/NA	Date: <u>11/18/13</u>		Date: <u>11/18/13</u>		Date: <u>11/18/13</u>	
TURN AROUND TIME							SAMPLES ACCEPTED Y/N	Time: <u>1020</u>		Time: <u>1052</u>		Time: <u>1052</u>	
<input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> RUSH <input type="checkbox"/> SAME DAY <input checked="" type="checkbox"/> NEXT DAY <input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS							RECEIVED BY:	1.	RECEIVED BY:	2.	RECEIVED BY:	3.	
							Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>		
							Printed Name: <u>[Name]</u>		Printed Name: <u>[Name]</u>		Printed Name: <u>[Name]</u>		
							Date: <u>11/18/13</u>		Date: <u>11/18/13</u>		Date: <u>11/18/13</u>		
							Time: <u>1020</u>		Time: <u>1052</u>		Time: <u>1052</u>		

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/18/2013  
Date Reported 11/19/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71367	11/18/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 5 samples with the following specification on 11/18/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71367.01	P2-B2-3	11/18/2013	Soil	1
71367.02	P2-B3-3	11/18/2013	Soil	1
71367.03	P2-B3-3D	11/18/2013	Soil	1
71367.04	P2-B4-3	11/18/2013	Soil	1
71367.05	P2-B5-2.5	11/18/2013	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	11/19/2013	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71367	11/18/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 111813IB1

Our Lab I.D.		Method Blank	71367.01	71367.02	71367.03	71367.04	
Client Sample I.D.			P2-B2-3	P2-B3-3	P2-B3-3D	P2-B4-3	
Date Sampled			11/18/2013	11/18/2013	11/18/2013	11/18/2013	
Date Prepared		11/18/2013	11/18/2013	11/18/2013	11/18/2013	11/18/2013	
Preparation Method		3550B	3550B	3550B	3550B	3550B	
Date Analyzed		11/18/2013	11/18/2013	11/18/2013	11/18/2013	11/19/2013	
Matrix		Soil	Soil	Soil	Soil	Soil	
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.010	0.020	ND	ND	ND	ND	ND
Chrysene	0.010	0.020	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	ND	ND	ND
Fluoranthene	0.010	0.020	ND	ND	ND	ND	ND
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	ND	ND	ND	ND
Pyrene	0.010	0.020	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	71367.01	71367.02	71367.03	71367.04	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125	115	115	114	116	108	





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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71367	11/18/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 111813IB1

Our Lab I.D.			71367.05			
Client Sample I.D.			P2-B5-2.5			
Date Sampled			11/18/2013			
Date Prepared			11/18/2013			
Preparation Method			3550B			
Date Analyzed			11/18/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			2			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.020	0.040	0.138			
Benzo(a)pyrene	0.020	0.040	0.250			
Benzo(b)fluoranthene	0.020	0.040	0.153			
Benzo(k)fluoranthene	0.020	0.040	0.0917			
Chrysene	0.020	0.040	0.195			
Dibenzo(a,h)anthracene	0.020	0.040	ND			
Indeno(1,2,3-cd)pyrene	0.020	0.040	0.269			
Acenaphthene	0.020	0.040	ND			
Acenaphthylene	0.020	0.040	ND			
Anthracene	0.020	0.040	ND			
Benzo(g,h,i)perylene	0.020	0.040	0.342			
Fluoranthene	0.020	0.040	0.397			
Fluorene	0.020	0.040	ND			
Naphthalene	0.020	0.040	ND			
Phenanthrene	0.020	0.040	0.0253J			
Pyrene	0.020	0.040	0.547			
Our Lab I.D.			71367.05			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		113			



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71367	11/18/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 111813IB1; Dup or Spiked Sample: 71315.01; LCS: Clean Sand; QC Prepared: 11/18/2013; QC Analyzed: 11/18/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0487	97.3	0.0500	0.0520	104	6.66	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0427	85.4	0.0500	0.0443	88.6	3.68	75-125	<20
Naphthalene	0.00	0.500	0.485	97.0	0.500	0.505	101	4.04	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.440	110	0.400	0.452	113	2.73	75-125	<20

QC Batch No: 111813IB1; Dup or Spiked Sample: 71315.01; LCS: Clean Sand; QC Prepared: 11/18/2013; QC Analyzed: 11/18/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzo(a)anthracene	0.0500	0.0580	116	0.0500	0.0580	116	<1	75-125	<20
Benzo(a)pyrene	0.0500	0.0525	105	0.0500	0.0525	105	<1	75-125	<20
Naphthalene	0.500	0.515	103	0.500	0.515	103	<1	75-125	<20
<b>LCS</b>									
Acenaphthene	0.500	0.560	112	0.500	0.550	110	1.80	75-125	<20
Acenaphthylene	1.00	0.980	98.0	1.00	0.980	97.6	<1	75-125	<20
Anthracene	0.0500	0.0500	105	0.0500	0.0500	104	<1	75-125	<20
Benzo(b)fluoranthene	0.100	0.110	108	0.100	0.110	106	1.87	75-125	<20
Benzo(g,h,i)perylene	0.100	0.110	114	0.100	0.110	111	2.67	75-125	<20
Benzo(k)fluoranthene	0.0500	0.0600	111	0.0500	0.0500	109	1.82	75-125	<20
Chrysene	0.0500	0.0600	116	0.0500	0.0600	115	<1	75-125	<20
Dibenzo(a,h)anthracene	0.100	0.120	117	0.100	0.120	115	1.72	75-125	<20
Fluoranthene	0.100	0.110	113	0.100	0.110	111	1.79	75-125	<20
Fluorene	0.100	0.0900	94.9	0.100	0.0900	93.2	1.81	75-125	<20
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	94.4	0.0500	0.0500	95.0	<1	75-125	<20
Phenanthrene	0.0500	0.0600	115	0.0500	0.0600	113	1.75	75-125	<20
Pyrene	0.0500	0.0600	111	0.0500	0.0500	108	2.74	75-125	<20
<b>Surrogates</b>									
p-Terphenyl-D14	0.400	0.466	117	0.400	0.459	115	1.71	75-125	<20



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 3  
Date Received 11/19/2013  
Date Reported 11/20/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71377	11/19/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 3 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



**American Environmental Testing Laboratory Inc.**  
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# CHAIN OF CUSTODY RECORD

No 79289

Page 1 of 1

COMPANY *Southern California Gas* PROJECT MANAGER *Katherine Chung*  
 COMPANY ADDRESS *551 West 5th St. CA, CA* PHONE *(909) 387-5356*  
 PROJECT NAME *Torne Nevada Map* PROJECT #  
 SITE NAME AND ADDRESS

AETL JOB No. *71377*

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS
1	PZ-86-3	71377-01	11/19/13	1035	SPIC	1 / 428	-			
2	PZ-87-25	71377-06	1043				-			
3	PZ-88-25	71377-03	1045				-			
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

*AT + 9300 PPH*

*BAD*

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS *3* PROPERLY COOLED  Y / N / NA

CUSTODY SEALS Y / N / NA SAMPLES INTACT  Y / N / NA

RECEIVED IN GOOD COND.  Y / N SAMPLES ACCEPTED  Y / N

TURN AROUND TIME

NORMAL  RUSH  SAME DAY  2 DAYS  3 DAYS

RELINQUISHED BY SAMPLER: 1. Signature: *[Signature]* Date: *11/19/13* Time: *1100*

RELINQUISHED BY: 2. Signature: *[Signature]* Date: *11/19-13* Time: *1140*

RECEIVED BY: 3. Signature: *[Signature]* Date: *11/19-13* Time: *1140*

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/19/2013  
Date Reported 11/20/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71377	11/19/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 3 samples with the following specification on 11/19/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71377.01	P2-B6-3	11/19/2013	Soil	1
71377.02	P2-B7-2.5	11/19/2013	Soil	1
71377.03	P2-B8-2.5	11/19/2013	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	11/20/2013	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71377	11/19/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 111913IB1

Our Lab I.D.			Method Blank	71377.01	71377.02	71377.03	
Client Sample I.D.				P2-B6-3	P2-B7-2.5	P2-B8-2.5	
Date Sampled				11/19/2013	11/19/2013	11/19/2013	
Date Prepared			11/19/2013	11/19/2013	11/19/2013	11/19/2013	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			11/19/2013	11/19/2013	11/19/2013	11/19/2013	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	
Benzo(a)pyrene	0.010	0.020	ND	ND	ND	ND	
Benzo(b)fluoranthene	0.010	0.020	ND	ND	ND	ND	
Benzo(k)fluoranthene	0.010	0.020	ND	ND	ND	ND	
Chrysene	0.010	0.020	ND	ND	ND	ND	
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	ND	ND	
Acenaphthene	0.010	0.020	ND	ND	ND	ND	
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	
Anthracene	0.010	0.020	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	ND	ND	
Fluoranthene	0.010	0.020	ND	ND	ND	ND	
Fluorene	0.010	0.020	ND	ND	ND	ND	
Naphthalene	0.010	0.020	ND	ND	ND	ND	
Phenanthrene	0.010	0.020	ND	ND	ND	ND	
Pyrene	0.010	0.020	ND	0.0112J	0.0133J	ND	
Our Lab I.D.			Method Blank	71377.01	71377.02	71377.03	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125		111	121	116	116	





# American Environmental Testing Laboratory Inc.

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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71377	11/19/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 111913IB1; Dup or Spiked Sample: 71377.03; LCS: Clean Sand; QC Prepared: 11/19/2013; QC Analyzed: 11/19/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	113	0.0500	0.0600	120	6.01	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0500	98.2	0.0500	0.0500	105	6.69	75-125	<20
Naphthalene	0.00	0.500	0.500	101	0.500	0.550	109	7.62	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.411	103	0.400	0.474	119	14.4	75-125	<20

QC Batch No: 111913IB1; Dup or Spiked Sample: 71377.03; LCS: Clean Sand; QC Prepared: 11/19/2013; QC Analyzed: 11/19/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0600	116	75-125						
Benzo(a)pyrene	0.0500	0.0500	97.8	75-125						
Naphthalene	0.500	0.520	104	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.540	109	75-125						
Acenaphthylene	1.00	0.970	97.0	75-125						
Anthracene	0.0500	0.0500	101	75-125						
Benzo(b)fluoranthene	0.100	0.110	105	75-125						
Benzo(g,h,i)perylene	0.100	0.110	113	75-125						
Benzo(k)fluoranthene	0.0500	0.0500	108	75-125						
Chrysene	0.0500	0.0600	115	75-125						
Dibenzo(a,h)anthracene	0.100	0.120	116	75-125						
Fluoranthene	0.100	0.110	110	75-125						
Fluorene	0.100	0.0900	92.9	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	98.6	75-125						
Phenanthrene	0.0500	0.0600	112	75-125						
Pyrene	0.0500	0.0500	102	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.452	113	75-125						



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 3  
Date Received 11/21/2013  
Date Reported 11/22/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71424	11/21/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



**American Environmental Testing Laboratory Inc.**  
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# CHAIN OF CUSTODY RECORD

No 69389

71429

AETL JOB No.

Page 1 of 1

COMPANY Southern California Gas Co. PROJECT MANAGER Michelle Uyga  
 COMPANY ADDRESS 555 W. 5th St. Los Angeles CA PHONE 909-367-5356  
 PROJECT NAME Alameda Farmer Mkt PROJECT # \_\_\_\_\_  
 SITE NAME AND ADDRESS 732 S. Alameda St. PO # \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
PC-B5-3	71429-01	11/21/13	1015	soil	1/4oz	-

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS	1	PROPERLY COOLED	Y/N/NA	RELINQUISHED BY SAMPLER:	1.
CUSTODY SEALS	Y/N/NA	SAMPLES INTACT	Y/N/NA	Signature: <u>[Signature]</u>	2.
RECEIVED IN GOOD COND.	Y/N	SAMPLES ACCEPTED	Y/N	Printed Name: <u>F. Pascos</u>	
TURN AROUND TIME				Date: <u>11/21/13</u>	Time: <u>1133</u>
<input type="checkbox"/> NORMAL	<input checked="" type="checkbox"/> RUSH	<input type="checkbox"/> SAME DAY	<input checked="" type="checkbox"/> NEXT DAY	RECEIVED BY:	1.
		<input type="checkbox"/> 2 DAYS	<input type="checkbox"/> 3 DAYS	Signature: <u>[Signature]</u>	2.

RELINQUISHED BY: 1. Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 2. Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

RECEIVED BY: 1. Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 2. Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

RELINQUISHED BY: 3. Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 RECEIVED BY: 3. Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/21/2013  
Date Reported 11/22/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71424	11/21/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 11/21/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71424.01	P2-B5-3	11/21/2013	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	11/22/2013	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71424	11/21/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 112213

Our Lab I.D.			Method Blank	71424.01		
Client Sample I.D.				P2-B5-3		
Date Sampled				11/21/2013		
Date Prepared			11/22/2013	11/22/2013		
Preparation Method			3550B	3550B		
Date Analyzed			11/22/2013	11/22/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND		
Benzo(a)pyrene	0.010	0.020	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	ND	ND		
Chrysene	0.010	0.020	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	ND		
Fluoranthene	0.010	0.020	ND	ND		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	ND		
Pyrene	0.010	0.020	ND	ND		
Our Lab I.D.			Method Blank	71424.01		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		118	117		



# American Environmental Testing Laboratory Inc.

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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71424	11/21/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 112213; Dup or Spiked Sample: 71424.01; LCS: Clean Sand; QC Prepared: 11/22/2013; QC Analyzed: 11/22/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0590	118	0.0500	0.0595	119	<1	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0540	108	0.0500	0.0565	113	4.5	75-125	<20
Naphthalene	0.00	0.500	0.525	105	0.500	0.530	106	<1	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.440	110	0.400	0.464	116	5.3	75-125	<20

QC Batch No: 112213; Dup or Spiked Sample: 71424.01; LCS: Clean Sand; QC Prepared: 11/22/2013; QC Analyzed: 11/22/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0595	119	75-125						
Benzo(a)pyrene	0.0500	0.0545	109	75-125						
Naphthalene	0.500	0.535	107	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.575	115	75-125						
Acenaphthylene	1.00	0.992	99.2	75-125						
Anthracene	0.0500	0.0540	108	75-125						
Benzo(b)fluoranthene	0.100	0.109	109	75-125						
Benzo(g,h,i)perylene	0.100	0.113	113	75-125						
Benzo(k)fluoranthene	0.0500	0.0560	112	75-125						
Chrysene	0.0500	0.0590	118	75-125						
Dibenzo(a,h)anthracene	0.100	0.121	121	75-125						
Fluoranthene	0.100	0.113	113	75-125						
Fluorene	0.100	0.0938	93.8	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	100	75-125						
Phenanthrene	0.0500	0.0595	119	75-125						
Pyrene	0.0500	0.0565	113	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.476	119	75-125						





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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 11/22/2013  
Date Reported 11/25/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71436	11/22/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 4 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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# CHAIN OF CUSTODY RECORD

NO 79292

AETL JOB No. **71436**

Page **1** of **1**

COMPANY So Cool Gas Co PROJECT MANAGER Kathleen Chynoweth

COMPANY ADDRESS 555 W. 5th St., L.A., CA PHONE \_\_\_\_\_ FAX \_\_\_\_\_

PROJECT NAME For more Mando's Mktg Office PROJECT # \_\_\_\_\_

SITE NAME AND ADDRESS 732. S. Mandala St. PO # \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1 P2-S1-1.5	71436-01	11/22/13	0825	SOL	1/4oz	-
2 P2-B9-3	71436-02	↓	0955	↓	↓	↓
3 P2-B10-2.5	71436-03	↓	1005	↓	↓	↓
4 P2-B11-5	71436-04	↓	1010	↓	↓	↓
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS 4 PROPERLY COOLED Y/N/NA

CUSTODY SEALS Y/N/NA SAMPLES INTACT Y/N/NA

RECEIVED IN GOOD COND. Y/N SAMPLES ACCEPTED Y/N

TURN AROUND TIME  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

NORMAL  RUSH

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>
Printed Name: <u>F. Brown</u>	Printed Name: <u>[Name]</u>	Printed Name: <u>[Name]</u>
Date: <u>11/22/13</u> Time: <u>11:30</u>	Date: <u>11/22/13</u> Time: <u>12:00</u>	Date: <u>11/22/13</u> Time: <u>12:00</u>
RECEIVED BY: <u>[Signature]</u>	RECEIVED BY: <u>[Signature]</u>	RECEIVED BY: <u>[Signature]</u>
Printed Name: <u>[Name]</u>	Printed Name: <u>[Name]</u>	Printed Name: <u>[Name]</u>
Date: <u>11/22-13</u> Time: <u>11:00</u>	Date: <u>11/22-13</u> Time: <u>12:00</u>	Date: <u>11/22-13</u> Time: <u>12:00</u>

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, **YELLOW** - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/22/2013  
Date Reported 11/25/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71436	11/22/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 4 samples with the following specification on 11/22/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71436.01	P2-S1-1.5	11/22/2013	Soil	1
71436.02	P2-B9-3	11/22/2013	Soil	1
71436.03	P2-B10-2.5	11/22/2013	Soil	1
71436.04	P2-B11-5	11/22/2013	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	11/25/2013	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71436	11/22/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 112213IB1

Our Lab I.D.			Method Blank	71436.01	71436.02	71436.03	
Client Sample I.D.				P2-S1-1.5	P2-B9-3	P2-B10-2.5	
Date Sampled				11/22/2013	11/22/2013	11/22/2013	
Date Prepared			11/22/2013	11/22/2013	11/22/2013	11/22/2013	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			11/22/2013	11/22/2013	11/22/2013	11/22/2013	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Benzo(a)anthracene	0.010	0.020	ND	0.287	ND	ND	
Benzo(a)pyrene	0.010	0.020	ND	0.495	ND	ND	
Benzo(b)fluoranthene	0.010	0.020	ND	0.289	ND	ND	
Benzo(k)fluoranthene	0.010	0.020	ND	0.171	ND	ND	
Chrysene	0.010	0.020	ND	0.373	ND	ND	
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.490	ND	ND	
Acenaphthene	0.010	0.020	ND	ND	ND	ND	
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	
Anthracene	0.010	0.020	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.010	0.020	ND	0.644	ND	ND	
Fluoranthene	0.010	0.020	ND	0.646	ND	ND	
Fluorene	0.010	0.020	ND	ND	ND	ND	
Naphthalene	0.010	0.020	ND	ND	ND	ND	
Phenanthrene	0.010	0.020	ND	0.0544	ND	ND	
Pyrene	0.010	0.020	ND	0.908	ND	ND	
Our Lab I.D.			Method Blank	71436.01	71436.02	71436.03	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125		118	113	117	97.3	



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyney

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71436	11/22/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 112213IB1

Our Lab I.D.	71436.04		
Client Sample I.D.	P2-B11-5		
Date Sampled	11/22/2013		
Date Prepared	11/22/2013		
Preparation Method	3550B		
Date Analyzed	11/22/2013		
Matrix	Soil		
Units	mg/Kg		
Dilution Factor	10		
Analytes	MDL	PQL	Results
Benzo(a)anthracene	0.100	0.200	0.633
Benzo(a)pyrene	0.100	0.200	1.50
Benzo(b)fluoranthene	0.100	0.200	0.926
Benzo(k)fluoranthene	0.100	0.200	0.536
Chrysene	0.100	0.200	1.16
Dibenzo(a,h)anthracene	0.100	0.200	ND
Indeno(1,2,3-cd)pyrene	0.100	0.200	1.52
Acenaphthene	0.100	0.200	ND
Acenaphthylene	0.100	0.200	ND
Anthracene	0.100	0.200	ND
Benzo(g,h,i)perylene	0.100	0.200	2.12
Fluoranthene	0.100	0.200	2.09
Fluorene	0.100	0.200	ND
Naphthalene	0.100	0.200	ND
Phenanthrene	0.100	0.200	0.260
Pyrene	0.100	0.200	2.77
Our Lab I.D.	71436.04		
Surrogates	%Rec.Limit	% Rec.	
p-Terphenyl-D14	75-125	103	



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71436	11/22/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 112213IB1; Dup or Spiked Sample: 71424.01; LCS: Clean Sand; QC Prepared: 11/22/2013; QC Analyzed: 11/22/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	118	0.0500	0.0600	119	<1	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0500	108	0.0500	0.0600	113	4.52	75-125	<20
Naphthalene	0.00	0.500	0.530	105	0.500	0.530	106	<1	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.441	110	0.400	0.462	116	5.45	75-125	<20

QC Batch No: 112213IB1; Dup or Spiked Sample: 71424.01; LCS: Clean Sand; QC Prepared: 11/22/2013; QC Analyzed: 11/22/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzo(a)anthracene	0.0500	0.0600	119	0.0500	0.0600	121	1.67	75-125	<20
Benzo(a)pyrene	0.0500	0.0500	109	0.0500	0.0500	107	1.85	75-125	<20
Naphthalene	0.500	0.540	107	0.500	0.510	102	4.78	75-125	<20
<b>LCS</b>									
Acenaphthene	0.500	0.580	115	0.500	0.560	111	3.54	75-125	<20
Acenaphthylene	1.00	0.990	99.2	1.00	0.970	96.9	2.35	75-125	<20
Anthracene	0.0500	0.0500	108	0.0500	0.0500	104	3.77	75-125	<20
Benzo(b)fluoranthene	0.100	0.110	109	0.100	0.110	108	<1	75-125	<20
Benzo(g,h,i)perylene	0.100	0.110	113	0.100	0.100	104	8.29	75-125	<20
Benzo(k)fluoranthene	0.0500	0.0600	112	0.0500	0.0600	111	<1	75-125	<20
Chrysene	0.0500	0.0600	118	0.0500	0.0600	120	1.68	75-125	<20
Dibenzo(a,h)anthracene	0.100	0.120	121	0.100	0.120	117	3.36	75-125	<20
Fluoranthene	0.100	0.110	113	0.100	0.120	115	1.75	75-125	<20
Fluorene	0.100	0.0900	93.8	0.100	0.0900	93.4	<1	75-125	<20
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	100	0.0500	0.0500	97.2	2.84	75-125	<20
Phenanthrene	0.0500	0.0600	119	0.0500	0.0600	114	4.29	75-125	<20
Pyrene	0.0500	0.0600	113	0.0500	0.0600	112	<1	75-125	<20
<b>Surrogates</b>									
p-Terphenyl-D14	0.400	0.475	119	0.400	0.457	114	4.20	75-125	<20





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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 5  
Date Received 11/22/2013  
Date Reported 11/27/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71442	11/22/2013	SC/G

**Project ID:** ALAMEDA  
**Project Name:** Former Alameda MGP Site  
**Site:** 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 3 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



**American Environmental Testing Laboratory Inc.**  
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# CHAIN OF CUSTODY RECORD

NO 79290

AETL JOB No. **71442** Page 1 of 1

COMPANY **Southern California Gas Co** PROJECT MANAGER **Matthew Chape**

COMPANY ADDRESS **555 W. 5th St. CA, CA** PHONE \_\_\_\_\_ FAX \_\_\_\_\_

PROJECT NAME **From Alameda Mill offsite Excavation** PROJECT # \_\_\_\_\_

SITE NAME AND ADDRESS **737 S. Alameda St** PO # \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	P2-S2-15A 7442.01	11/22/13	0800	SOIL	1 / 4oz	-
2	P2-S2-175A 7442.02	↓	0803	↓	↓	-
3	P2-S2-2.0A 7442.03	↓	0810	↓	↓	-
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

XXXX PMs

HOLD ALL 3  
 Samples

### SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS **3** PROPERLY COOLED Y/N/NA \_\_\_\_\_

CUSTOMY SEALS Y/N/NA \_\_\_\_\_ SAMPLES INTACT Y/N/NA \_\_\_\_\_

RECEIVED IN GOOD COND. Y/N \_\_\_\_\_ SAMPLES ACCEPTED Y/N \_\_\_\_\_

TURN AROUND TIME  
 NORMAL  RUSH  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

*See notes*

RELINQUISHED BY SAMPLER:	1.	2.	3.
Signature: <i>[Signature]</i>	Signature: _____	Signature: _____	Signature: <i>[Signature]</i>
Printed Name: <i>Feb 13 1000</i>	Printed Name: _____	Printed Name: _____	Printed Name: <i>11/22-13</i>
Date: <i>11/22/13</i>	Date: _____	Date: _____	Date: <i>11/22-13</i>
Time: <i>1100</i>	Time: _____	Time: _____	Time: <i>1200</i>
RECEIVED BY:	RECEIVED BY:	RECEIVED BY:	RECEIVED BY:
Signature: _____	Signature: _____	Signature: _____	Signature: <i>[Signature]</i>
Printed Name: _____	Printed Name: _____	Printed Name: _____	Printed Name: <i>Debra Claudio</i>
Date: <i>11/22-13</i>	Date: _____	Date: _____	Date: <i>11/22-13</i>
Time: <i>1100</i>	Time: _____	Time: _____	Time: <i>1200</i>

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

## Cyrus Razmara

---

**From:** Cheyne, Kathleen A. [kcheyne@semprautilities.com]  
**Sent:** Tuesday, November 26, 2013 10:32 AM  
**To:** JIM LIN; 'Mascioni, Fabrizio'; cyrus@aetlab.com  
**Cc:** 'Craig, Shala'  
**Subject:** RE: Sample analysis - Alameda

Hi Jim,

Fabrizio from Parsons provided AETL with soil samples last Friday from Alameda St and I would like to release the following for analyses:

- The sample P2-S2-1.5A
- The sample P2-S2-1.75A
- The sample P2-S2-2.0A

Please run these samples on a 48 hr TAT.

Thanks  
Kathleen Cheyne

---

**From:** JIM LIN [mailto:jiml@aetlab.com]  
**Sent:** Tuesday, November 19, 2013 12:37 PM  
**To:** 'Mascioni, Fabrizio'; cyrus@aetlab.com  
**Cc:** 'Craig, Shala'; Cheyne, Kathleen A.  
**Subject:** RE: Sample analysis



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/22/2013  
Date Reported 11/27/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71442	11/22/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 3 samples with the following specification on 11/22/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71442.01	P2-S2-1.5A	11/22/2013	Soil	1
71442.02	P2-S2-1.75A	11/22/2013	Soil	1
71442.03	P2-S2-2.0A	11/22/2013	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	11/25/2013	3	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71442	11/22/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 112613IB1

Our Lab I.D.			Method Blank	71442.01		
Client Sample I.D.				P2-S2-1.5A		
Date Sampled				11/22/2013		
Date Prepared			11/26/2013	11/26/2013		
Preparation Method			3550B	3550B		
Date Analyzed			11/26/2013	11/26/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	0.0822		
Benzo(a)pyrene	0.010	0.020	ND	0.0999		
Benzo(b)fluoranthene	0.010	0.020	ND	0.0629		
Benzo(k)fluoranthene	0.010	0.020	ND	0.0370		
Chrysene	0.010	0.020	ND	0.0843		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.0712		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	0.0826		
Fluoranthene	0.010	0.020	ND	0.154		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	0.0247		
Pyrene	0.010	0.020	ND	0.214		
Our Lab I.D.			Method Blank	71442.01		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		117	121		



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71442	11/22/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 112613IB1

Our Lab I.D.			71442.02			
Client Sample I.D.			P2-S2-1.75A			
Date Sampled			11/22/2013			
Date Prepared			11/26/2013			
Preparation Method			3550B			
Date Analyzed			11/26/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			100			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	1.000	2.000	39.5			
Benzo(a)pyrene	1.000	2.000	62.6			
Benzo(b)fluoranthene	1.000	2.000	37.4			
Benzo(k)fluoranthene	1.000	2.000	22.6			
Chrysene	1.000	2.000	48.0			
Dibenzo(a,h)anthracene	1.000	2.000	ND			
Indeno(1,2,3-cd)pyrene	1.000	2.000	59.5			
Acenaphthene	1.000	2.000	ND			
Acenaphthylene	1.000	2.000	ND			
Anthracene	1.000	2.000	ND			
Benzo(g,h,i)perylene	1.000	2.000	73.5			
Fluoranthene	1.000	2.000	72.8			
Fluorene	1.000	2.000	ND			
Naphthalene	1.000	2.000	ND			
Phenanthrene	1.000	2.000	4.78			
Pyrene	1.000	2.000	106			
Our Lab I.D.			71442.02			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		678 S6			





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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71442	11/22/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 112613IB1

Our Lab I.D.			71442.03			
Client Sample I.D.			P2-S2-2.0A			
Date Sampled			11/22/2013			
Date Prepared			11/26/2013			
Preparation Method			3550B			
Date Analyzed			11/26/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.010	0.020	0.0716			
Benzo(a)pyrene	0.010	0.020	0.140			
Benzo(b)fluoranthene	0.010	0.020	0.0929			
Benzo(k)fluoranthene	0.010	0.020	0.0550			
Chrysene	0.010	0.020	0.0824			
Dibenzo(a,h)anthracene	0.010	0.020	ND			
Indeno(1,2,3-cd)pyrene	0.010	0.020	0.178			
Acenaphthene	0.010	0.020	ND			
Acenaphthylene	0.010	0.020	ND			
Anthracene	0.010	0.020	ND			
Benzo(g,h,i)perylene	0.010	0.020	0.223			
Fluoranthene	0.010	0.020	0.143			
Fluorene	0.010	0.020	ND			
Naphthalene	0.010	0.020	ND			
Phenanthrene	0.010	0.020	ND			
Pyrene	0.010	0.020	0.238			
Our Lab I.D.			71442.03			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		121			



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 5

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71442	11/22/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 112613IB1; Dup or Spiked Sample: 71442.03; LCS: Clean Sand; QC Prepared: 11/26/2013; QC Analyzed: 11/26/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.0716	0.0500	0.125	107	0.0500	0.0800M	16.8	145.7	75-125	<20
Benzo(a)pyrene	0.140	0.0500	0.119M	-41.9	0.0500	0.139M	-1.2	<1	75-125	<20
Naphthalene	0.00	0.500	0.525	105	0.500	0.540	108	2.8	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.472	118	0.400	0.492	123	4.1	75-125	<20

QC Batch No: 112613IB1; Dup or Spiked Sample: 71442.03; LCS: Clean Sand; QC Prepared: 11/26/2013; QC Analyzed: 11/26/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzo(a)anthracene	0.0500	0.0600	120	0.0500	0.0615	123	2.5	75-125	<20
Benzo(a)pyrene	0.0500	0.0535	107	0.0500	0.0560	112	4.6	75-125	<20
Naphthalene	0.500	0.525	105	0.500	0.545	109	3.7	75-125	<20
<b>LCS</b>									
Acenaphthene	0.500	0.575	115	0.500	0.585	117	1.7	75-125	<20
Acenaphthylene	1.00	0.992	99.2	1.00	1.02	102	2.8	75-125	<20
Anthracene	0.0500	0.0540	108	0.0500	0.0565	113	4.5	75-125	<20
Benzo(b)fluoranthene	0.100	0.109	109	0.100	0.113	113	3.6	75-125	<20
Benzo(g,h,i)perylene	0.100	0.117	117	0.100	0.113	113	3.5	75-125	<20
Benzo(k)fluoranthene	0.0500	0.0565	113	0.0500	0.0585	117	3.5	75-125	<20
Chrysene	0.0500	0.0610	122	0.0500	0.0615	123	<1	75-125	<20
Dibenzo(a,h)anthracene	0.100	0.120	120	0.100	0.123	123	2.5	75-125	<20
Fluoranthene	0.100	0.114	114	0.100	0.118	118	3.4	75-125	<20
Fluorene	0.100	0.0965	96.5	0.100	0.0988	98.8	2.4	75-125	<20
Indeno(1,2,3-cd)pyrene	0.0500	0.0560	112	0.0500	0.0590	118	5.2	75-125	<20
Phenanthrene	0.0500	0.0590	118	0.0500	0.0590	118	<1	75-125	<20
Pyrene	0.0500	0.0580	116	0.0500	0.0580	116	<1	75-125	<20
<b>Surrogates</b>									
p-Terphenyl-D14	0.400	0.472	118	0.400	0.500	125	5.8	75-125	<20



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 3  
Date Received 12/12/2013  
Date Reported 12/13/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71619	12/12/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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# CHAIN OF CUSTODY RECORD

No 84978

AETL JOB No. 71619 Page 1 of 1

COMPANY P So Cal Env PROJECT MANAGER Scott Alan Uygro

COMPANY ADDRESS 555 W. 5th St., Los Angeles CA PHONE \_\_\_\_\_ FAX \_\_\_\_\_

PROJECT NAME Formaldehyde M&T - offsite PROJECT # \_\_\_\_\_

SITE NAME AND ADDRESS 732 S. Alameda St. L.A., CA PO # \_\_\_\_\_

ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS			
1	PAHs, B30						
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	RELINQUISHED BY SAMPLER:		RELINQUISHED BY:	
							Signature:	Printed Name:	Signature:	Printed Name:
1	PZ-011-5.5	12/12/13	11:15	SPIC	1/400	-	<u>Thomas Madusa</u>	<u>Thomas Madusa</u>	<u>Thomas Madusa</u>	<u>Thomas Madusa</u>
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS 1 PROPERLY COOLED Y/N/NA

CUSTODY SEALS Y/N/NA SAMPLES INTACT Y/N/NA

RECEIVED IN GOOD COND. Y/N SAMPLES ACCEPTED Y/N

TURN AROUND TIME DATA DELIVERABLE REQUIRED

NORMAL  RUSH  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

HARD COPY  PDF  GEOTRACKER (GLOBAL ID)  OTHER (PLEASE SPECIFY)

RELINQUISHED BY: Thomas Madusa Signature: Thomas Madusa Printed Name: Thomas Madusa Date: 12/12/13 Time: 12:50

RECEIVED BY: Thomas Madusa Signature: Thomas Madusa Printed Name: Thomas Madusa Date: 12/12/13 Time: 12:50

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 12/12/2013  
Date Reported 12/13/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71619	12/12/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 12/12/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	
71619.01	P2-B11-5.5	12/12/2013	Soil	1	
Method ^ Submethod		Req Date	Priority	TAT	Units
(8310)		12/13/2013	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71619	12/12/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 121313IB1

Our Lab I.D.			Method Blank	71619.01		
Client Sample I.D.				P2-B11-5.5		
Date Sampled				12/12/2013		
Date Prepared			12/13/2013	12/13/2013		
Preparation Method			3550B	3550B		
Date Analyzed			12/13/2013	12/13/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND		
Benzo(a)pyrene	0.010	0.020	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	ND	ND		
Chrysene	0.010	0.020	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	ND		
Fluoranthene	0.010	0.020	ND	ND		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	ND		
Pyrene	0.010	0.020	ND	ND		
Our Lab I.D.			Method Blank	71619.01		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		118	117		





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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71619	12/12/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 121313IB1; Dup or Spiked Sample: 71619.01; LCS: Clean Sand; QC Prepared: 12/13/2013; QC Analyzed: 12/13/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0595	119	0.0500	0.0610	122	2.49	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0545	109	0.0500	0.0560	112	2.71	75-125	<20
Naphthalene	0.00	0.500	0.530	106	0.500	0.540	108	1.87	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.440	110	0.400	0.449	112	1.82	75-125	<20

QC Batch No: 121313IB1; Dup or Spiked Sample: 71619.01; LCS: Clean Sand; QC Prepared: 12/13/2013; QC Analyzed: 12/13/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0500	107	75-125						
Benzo(a)pyrene	0.0500	0.0600	113	75-125						
Naphthalene	0.500	0.560	112	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.600	120	75-125						
Acenaphthylene	1.00	1.05	105	75-125						
Anthracene	0.0500	0.0600	111	75-125						
Benzo(b)fluoranthene	0.100	0.120	116	75-125						
Benzo(g,h,i)perylene	0.100	0.110	109	75-125						
Benzo(k)fluoranthene	0.0500	0.0600	119	75-125						
Chrysene	0.0500	0.0600	124	75-125						
Dibenzo(a,h)anthracene	0.100	0.120	124	75-125						
Fluoranthene	0.100	0.120	120	75-125						
Fluorene	0.100	0.100	104	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	106	75-125						
Phenanthrene	0.0500	0.0600	121	75-125						
Pyrene	0.0500	0.0600	120	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.472	118	75-125						



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

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- S6: Surrogate recovery is outside control limits due to matrix interference.
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- X: Results represent LCS and LCSD data.

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- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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**Additional Investigation Soil Samples Laboratory Reports**



## American Environmental Testing Laboratory Inc.

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 5  
Date Received 09/20/2013  
Date Reported 09/23/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70721	09/20/2013	SC/G

**Project ID:** ALAMEDA  
**Project Name:** Alameda MGP  
**Site:** Alameda MGP  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 10 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



American Environmental Testing Laboratory Inc.  
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# CHAIN OF CUSTODY RECORD

No 79281

Page 1 of 2

AETL JOB No. 70721

PROJECT MANAGER *Paul N. Cheyne*

COMPANY ADDRESS *555 W. 5th St.*

PROJECT NAME *Force Mained a Ab.P*

SITE NAME AND ADDRESS *732 S. Alameda Blvd, L.A.*

ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS		
<i>MS 830</i>					
X					<i>Run</i>
X					<i>Run</i>
X					<i>Run</i>
X					<i>HOLD</i>
X					<i>HOLD</i>
X					<i>Run</i>
X					<i>HOLD</i>
X					<i>Run</i>
X					<i>Run</i>
X					<i>Run</i>
X					<i>Run</i>

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1 A-OIS-7-3	70721-01	9/20/13	0842	SPIL	402/1 Jar	---
2 A-OIS-7-5	70721-02		0834			---
3 A-OIS-7-5	70721-03		0835			---
4 A-OIS-8-1-5	70721-04		0917			---
5 A-OIS-8-3	70721-05		0922			---
6 A-OIS-8-3D	70721-06		0922			---
7 A-OIS-8-5	70721-07		0942			---
8 A-OIS-9-1-5	70721-08		1008			---
9 A-OIS-9-3	70721-09		1016			---
10 A-OIS-9-5	70721-10		1025			---
11 A-OIS-10-1-5	70721-11		1042			---
12 A-OIS-10-3	70721-12		1050			---
13 A-OIS-10-5	70721-13		1055			---
14 A-OIS-11-1-5	70721-14		1110			---
15 A-OIS-11-3	70721-15		1120			---

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: *15* PROPERLY COOLED (Y/N/NA): *(Y)*

CUSTODY SEALS (Y/N/NA): *(Y)* SAMPLES INTACT (Y/N/NA): *(Y)*

RECEIVED IN GOOD COND. (Y/N): *(Y)* SAMPLES ACCEPTED (Y/N): *(Y)*

TURN AROUND TIME:  NORMAL  RUSH  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

RELINQUISHED BY SAMPLER: *[Signature]* Signature: *[Signature]* Project Name: *F. Morrison* Date: *9/20/13* Time: *1353*

RELINQUISHED BY: *[Signature]* Signature: *[Signature]* Date: *9/20/13* Time: *1415*

RECEIVED BY: *[Signature]* Signature: *[Signature]* Date: *9/20/13* Time: *1415*

LABORATORY: *AETL 3.*

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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# CHAIN OF CUSTODY RECORD

No 79278

70721

AETL JOB No.

Page 2 of 2

COMPANY <u>So Cal Gas</u>		PROJECT MANAGER <u>M. Choyne</u>				
COMPANY ADDRESS <u>555 W. 5th St.</u>		PHONE	FAX			
PROJECT NAME <u>Keene Alameda Mkt</u>		PROJECT #				
SITE NAME AND ADDRESS <u>732 S. Alameda Blvd L.A.</u>	PO #					
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1 A-015-11-30	70721.16	9/20/13	1120	Soil	402/1	-
2 A-015-11-5	70721.17		1130			-
3 A-015-12-15	70721.18		1230			-
4 A-015-12-3	70721.19		1240			-
5 A-015-12-5	70721.20		1245			-
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY			RELINQUISHED BY SAMPLER:	1.	2.	3.
TOTAL NUMBER OF CONTAINERS	5	PROPERLY COOLED (Y/N/NA)	Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>
CUSTODY SEALS (Y/N/NA)		SAMPLES INTACT (Y/N/NA)	Printed Name: <u>F. Nielson</u>	Printed Name: <u>[Signature]</u>	Printed Name: <u>[Signature]</u>	Printed Name: <u>[Signature]</u>
RECEIVED IN GOOD COND. (Y/N)		SAMPLES ACCEPTED (Y/N)	Date: <u>9/20/13</u>	Date: <u>9/20/13</u>	Date: <u>9/20/13</u>	Date: <u>9/20/13</u>
TURN AROUND TIME			Time: <u>1353</u>	Time: <u>1353</u>	Time: <u>1415</u>	Time: <u>1415</u>
<input type="checkbox"/> NORMAL	<input checked="" type="checkbox"/> RUSH	<input checked="" type="checkbox"/> SAME DAY <input type="checkbox"/> NEXT DAY	RECEIVED BY: <u>[Signature]</u>	RECEIVED BY: <u>[Signature]</u>	RECEIVED BY: <u>[Signature]</u>	RECEIVED BY: <u>[Signature]</u>
		<input type="checkbox"/> 2 DAYS <input type="checkbox"/> 3 DAYS	LABORATORY: <u>AE/L</u>	LABORATORY: <u>AE/L</u>	LABORATORY: <u>AE/L</u>	LABORATORY: <u>AE/L</u>
			Printed Name: <u>Atkinson Proctor</u>	Printed Name: <u>[Signature]</u>	Printed Name: <u>[Signature]</u>	Printed Name: <u>[Signature]</u>
			Date: <u>9/20/13</u>	Date: <u>9/20/13</u>	Date: <u>9/20/13</u>	Date: <u>9/20/13</u>
			Time: <u>1353</u>	Time: <u>1353</u>	Time: <u>1415</u>	Time: <u>1415</u>

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/20/2013  
Date Reported 09/23/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70721	09/20/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 20 samples with the following specification on 09/20/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70721.01	A-OIS-7-3	09/20/2013	Soil	1
70721.02	A-OIS-7-1.5	09/20/2013	Soil	1
70721.03	A-OIS-7-5	09/20/2013	Soil	1
70721.08	A-OIS-9-1.5	09/20/2013	Soil	1
70721.09	A-OIS-9-3	09/20/2013	Soil	1
70721.10	A-OIS-9-5	09/20/2013	Soil	1
70721.14	A-OIS-11-1.5	09/20/2013	Soil	1
70721.15	A-OIS-11-3	09/20/2013	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	09/27/2013	2	Normal	mg/Kg
70721.04	A-OIS-8-1.5	09/20/2013	Soil	1
70721.05	A-OIS-8-3	09/20/2013	Soil	1
70721.06	A-OIS-8-3D	09/20/2013	Soil	1
70721.07	A-OIS-8-5	09/20/2013	Soil	1
70721.11	A-OIS-10-1.5	09/20/2013	Soil	1
70721.12	A-OIS-10-3	09/20/2013	Soil	1
70721.13	A-OIS-10-5	09/20/2013	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/27/2013	2	Normal	--
70721.18	A-OIS-12-1.5	09/20/2013	Soil	1
70721.19	A-OIS-12-3	09/20/2013	Soil	1
70721.20	A-OIS-12-5	09/20/2013	Soil	1
70721.16	A-OIS-11-3D	09/20/2013	Soil	1
70721.17	A-OIS-11-5	09/20/2013	Soil	1

Continued





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Page: 1 B

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/20/2013  
Date Reported 09/23/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70721	09/20/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70721	09/20/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092013IB1

Our Lab I.D.		Method Blank	70721.01	70721.02	70721.03	70721.08
Client Sample I.D.			A-OIS-7-3	A-OIS-7-1.5	A-OIS-7-5	A-OIS-9-1.5
Date Sampled			09/20/2013	09/20/2013	09/20/2013	09/20/2013
Date Prepared		09/20/2013	09/20/2013	09/20/2013	09/20/2013	09/20/2013
Preparation Method		3550B	3550B	3550B	3550B	3550B
Date Analyzed		09/20/2013	09/20/2013	09/20/2013	09/20/2013	09/20/2013
Matrix		Soil	Soil	Soil	Soil	Soil
Units		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	ND	0.211	ND
Benzo(a)pyrene	0.010	0.020	ND	ND	0.553	0.017J
Benzo(b)fluoranthene	0.010	0.020	ND	ND	0.315	0.011J
Benzo(k)fluoranthene	0.010	0.020	ND	ND	0.202	ND
Chrysene	0.010	0.020	ND	ND	0.451	0.011J
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	0.473	0.010J
Acenaphthene	0.010	0.020	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	0.605	0.013J
Fluoranthene	0.010	0.020	ND	ND	1.08	0.020
Fluorene	0.010	0.020	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	ND	0.186	ND
Pyrene	0.010	0.020	ND	ND	1.43	0.030
Our Lab I.D.		Method Blank	70721.01	70721.02	70721.03	70721.08
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
p-Terphenyl-D14	75-125	105	115	103	103	103



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70721	09/20/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092013IB1

Our Lab I.D.			70721.09	70721.10	70721.14	70721.15	70721.16
Client Sample I.D.			A-OIS-9-3	A-OIS-9-5	A-OIS-11-1.5	A-OIS-11-3	A-OIS-11-3D
Date Sampled			09/20/2013	09/20/2013	09/20/2013	09/20/2013	09/20/2013
Date Prepared			09/20/2013	09/20/2013	09/20/2013	09/20/2013	09/20/2013
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			09/20/2013	09/20/2013	09/20/2013	09/20/2013	09/20/2013
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.010	0.020	ND	ND	0.030	ND	ND
Benzo(b)fluoranthene	0.010	0.020	ND	ND	0.017J	ND	ND
Benzo(k)fluoranthene	0.010	0.020	ND	ND	0.011J	ND	ND
Chrysene	0.010	0.020	ND	ND	0.021	ND	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND	0.021	ND	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	ND	0.029	ND	ND
Fluoranthene	0.010	0.020	ND	ND	0.034	ND	ND
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	ND	0.012J	ND	ND
Pyrene	0.010	0.020	ND	ND	0.049	ND	ND
Our Lab I.D.			70721.09	70721.10	70721.14	70721.15	70721.16
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
p-Terphenyl-D14	75-125		93.2	93.2	98.4	100	101



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA  
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70721	09/20/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092013IB1

Our Lab I.D.	70721.17		
Client Sample I.D.	A-OIS-11-5		
Date Sampled	09/20/2013		
Date Prepared	09/20/2013		
Preparation Method	3550B		
Date Analyzed	09/20/2013		
Matrix	Soil		
Units	mg/Kg		
Dilution Factor	1		
Analytes	MDL	PQL	Results
Benzo(a)anthracene	0.010	0.020	ND
Benzo(a)pyrene	0.010	0.020	ND
Benzo(b)fluoranthene	0.010	0.020	ND
Benzo(k)fluoranthene	0.010	0.020	ND
Chrysene	0.010	0.020	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND
Acenaphthene	0.010	0.020	ND
Acenaphthylene	0.010	0.020	ND
Anthracene	0.010	0.020	ND
Benzo(g,h,i)perylene	0.010	0.020	ND
Fluoranthene	0.010	0.020	ND
Fluorene	0.010	0.020	ND
Naphthalene	0.010	0.020	ND
Phenanthrene	0.010	0.020	ND
Pyrene	0.010	0.020	ND
Our Lab I.D.	70721.17		
Surrogates	%Rec.Limit	% Rec.	
p-Terphenyl-D14	75-125	100	



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 5

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70721	09/20/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092013IB1; Dup or Spiked Sample: 70721.15; LCS: Clean Sand; QC Prepared: 09/20/2013; QC Analyzed: 09/20/2013;  
 Units: mg/Kg

Analytes	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.0500	0.0515	103	0.0500	0.0535	107	3.8	75-125	<20
Benzo(a)pyrene	0.0500	0.0474	94.8	0.0500	0.0495	99.0	4.3	75-125	<20
Naphthalene	0.500	0.491	98.2	0.500	0.510	102	3.8	75-125	<20
<b>Surrogates</b>									
p-Terphenyl-D14	0.400	0.391	97.8	0.400	0.404	101	3.2	75-125	<20

QC Batch No: 092013IB1; Dup or Spiked Sample: 70721.15; LCS: Clean Sand; QC Prepared: 09/20/2013; QC Analyzed: 09/20/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
Benzo(a)anthracene	0.0500	0.0545	109	75-125
Benzo(a)pyrene	0.0500	0.0505	101	75-125
Naphthalene	0.500	0.510	102	75-125
<b>LCS</b>				
Acenaphthene	0.500	0.545	109	75-125
Acenaphthylene	1.00	0.946	94.6	75-125
Anthracene	0.0500	0.0525	105	75-125
Benzo(b)fluoranthene	0.100	0.103	103	75-125
Benzo(g,h,i)perylene	0.100	0.107	107	75-125
Benzo(k)fluoranthene	0.0500	0.0550	110	75-125
Chrysene	0.0500	0.0540	108	75-125
Dibenzo(a,h)anthracene	0.100	0.113	113	75-125
Fluoranthene	0.100	0.108	108	75-125
Fluorene	0.100	0.0997	99.7	75-125
Indeno(1,2,3-cd)pyrene	0.0500	0.0535	107	75-125
Phenanthrene	0.0500	0.0540	108	75-125
Pyrene	0.0500	0.0525	105	75-125
<b>Surrogates</b>				
p-Terphenyl-D14	0.400	0.416	104	75-125



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 5  
Date Received 10/02/2013  
Date Reported 11/20/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70830	11/19/2013	SC/G

**Project ID:** ALAMEDA  
**Project Name:** Alameda MGP  
**Site:** Offsite Investigation  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





**American Environmental Testing Laboratory Inc.**  
 2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
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# CHAIN OF CUSTODY RECORD

No 69390

Page 1 of 1

AETL JOB No. 70830

COMPANY So Cal Gas PROJECT MANAGER K. Cheyne  
 COMPANY ADDRESS 555 W. 5th St L.A. CA PHONE \_\_\_\_\_ FAX \_\_\_\_\_  
 PROJECT NAME Foam Alameda H61 PROJECT # \_\_\_\_\_  
 SITE NAME AND ADDRESS Offsite Inverpugh PO # \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS
1 A-05I-30-15	70830.01	10/2/13	0858	SOIL	400/1 Jar					Hold All Samples
2 A-05I-30-3	70830.02	0858	0858							
3 A-05I-30-5	70830.03	0858	0858							
4 A-05I-31-1.5	70830.04	0858	0858							
5 A-05I-31-3	70830.05	0858	0858							
6 A-05I-31-5	70830.06	0858	0858							
7 A-05I-31-1.5D	70830.07	0858	0858							
8 A-05I-32-1.5	70830.08	0858	0858							
9 A-05I-32-3	70830.09	0858	0858							
10 A-05I-32-5	70830.10	0858	0858							
11										
12										
13										
14										
15										

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: 10 PROPERLY COOLED Y/N/NA  
 CUSTODY SEALS Y(N)/NA SAMPLES INTACT Y(N)/NA  
 RECEIVED IN GOOD COND. Y/N SAMPLES ACCEPTED Y(N)

TURN AROUND TIME  
 NORMAL  RUSH  SAME DAY  2 DAYS  
 NEXT DAY  3 DAYS

RELINQUISHED BY SAMPLER: [Signature] Date: 10/2/13 Time: 1200  
 RELINQUISHED BY: [Signature] Date: 10/2/13 Time: 1330

RECEIVED BY: [Signature] Date: 10/2/13 Time: 1330

LABORATORY: AETL 3.

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



**JIM LIN**

---

**From:** Mascioni, Fabrizio [Fabrizio.Mascioni@parsons.com]  
**Sent:** Tuesday, November 19, 2013 11:44 AM  
**To:** 'cyrus@aetlab.com'  
**Cc:** Craig, Shala; 'kcheyne@semprautilities.com'; 'JimL@aetlab.com'  
**Subject:** Re: Sample analysis

Cyrus, I am not sure what the AETL job number is, but it is for the GasCo Alameda site. Analysis as stated in the COC for PAHs 8310.

Thank you

---

**From:** Cyrus Razmara [mailto:cyrus@aetlab.com]  
**Sent:** Tuesday, November 19, 2013 01:41 PM  
**To:** Mascioni, Fabrizio  
**Cc:** Craig, Shala; kcheyne@semprautilities.com <kcheyne@semprautilities.com>; Jim Lin <JimL@aetlab.com>  
**Subject:** RE: Sample analysis

Hi Fabrizio,

Please indicate the AETL Job No. and the analysis that you require.

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.  
CEO & Laboratory Director  
American Environmental Testing Laboratory

-----Original Message-----

**From:** Mascioni, Fabrizio [mailto:Fabrizio.Mascioni@parsons.com]  
**Sent:** Tuesday, November 19, 2013 10:09 AM  
**To:** 'cyrus@aetlab.com'  
**Cc:** Craig, Shala; 'kcheyne@semprautilities.com'  
**Subject:** Sample analysis

Cyrus,  
can you pass this email to Jim? I don't have his email on my phone.  
We need to have samples A-OSI-32-1.5 and A-OSI-32-3 analyzed from COC 69390, 24 TAT.  
Thank you!  
Fabrizio



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 10/02/2013  
Date Reported 11/20/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70830	11/19/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 10 samples with the following specification on 10/02/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70830.01	A-OSI-30-1.5	10/02/2013	Soil	1
70830.02	A-OSI-30-3	10/02/2013	Soil	1
70830.03	A-OSI-30-5	10/02/2013	Soil	1
70830.04	A-OSI-31-1.5	10/02/2013	Soil	1
70830.05	A-OSI-31-3	10/02/2013	Soil	1
70830.06	A-OSI-31-5	10/02/2013	Soil	1
70830.07	A-OSI-31-5D	10/02/2013	Soil	1
70830.10	A-OSI-32-5	10/02/2013	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	10/09/2013	2	Normal	--
70830.08	A-OSI-32-1.5	10/02/2013	Soil	1
70830.09	A-OSI-32-3	10/02/2013	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	10/03/2013	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody.

Request for analysis was received beyond method holding time.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70830	10/02/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 111913IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			11/19/2013			
Preparation Method			3550B			
Date Analyzed			11/19/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.010	0.020	ND			
Benzo(a)pyrene	0.010	0.020	ND			
Benzo(b)fluoranthene	0.010	0.020	ND			
Benzo(k)fluoranthene	0.010	0.020	ND			
Chrysene	0.010	0.020	ND			
Dibenzo(a,h)anthracene	0.010	0.020	ND			
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND			
Acenaphthene	0.010	0.020	ND			
Acenaphthylene	0.010	0.020	ND			
Anthracene	0.010	0.020	ND			
Benzo(g,h,i)perylene	0.010	0.020	ND			
Fluoranthene	0.010	0.020	ND			
Fluorene	0.010	0.020	ND			
Naphthalene	0.010	0.020	ND			
Phenanthrene	0.010	0.020	ND			
Pyrene	0.010	0.020	ND			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		111			



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70830	10/02/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 111913IB1

Our Lab I.D.			70830.08			
Client Sample I.D.			A-OSI-32-1.5			
Date Sampled			10/02/2013			
Date Prepared			11/19/2013			
Preparation Method			3550B			
Date Analyzed			11/19/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			5			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.050	0.100	0.0926J			
Benzo(a)pyrene	0.050	0.100	0.292			
Benzo(b)fluoranthene	0.050	0.100	0.233			
Benzo(k)fluoranthene	0.050	0.100	0.120			
Chrysene	0.050	0.100	0.213			
Dibenzo(a,h)anthracene	0.050	0.100	ND			
Indeno(1,2,3-cd)pyrene	0.050	0.100	0.382			
Acenaphthene	0.050	0.100	ND			
Acenaphthylene	0.050	0.100	ND			
Anthracene	0.050	0.100	ND			
Benzo(g,h,i)perylene	0.050	0.100	0.668			
Fluoranthene	0.050	0.100	0.349			
Fluorene	0.050	0.100	ND			
Naphthalene	0.050	0.100	ND			
Phenanthrene	0.050	0.100	0.112			
Pyrene	0.050	0.100	0.515			
Our Lab I.D.			70830.08			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		110			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70830	10/02/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 111913IB1

Our Lab I.D.	70830.09		
Client Sample I.D.	A-OSI-32-3		
Date Sampled	10/02/2013		
Date Prepared	11/19/2013		
Preparation Method	3550B		
Date Analyzed	11/20/2013		
Matrix	Soil		
Units	mg/Kg		
Dilution Factor	1		
Analytes	MDL	PQL	Results
Benzo(a)anthracene	0.010	0.020	ND
Benzo(a)pyrene	0.010	0.020	ND
Benzo(b)fluoranthene	0.010	0.020	ND
Benzo(k)fluoranthene	0.010	0.020	ND
Chrysene	0.010	0.020	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND
Acenaphthene	0.010	0.020	ND
Acenaphthylene	0.010	0.020	ND
Anthracene	0.010	0.020	ND
Benzo(g,h,i)perylene	0.010	0.020	ND
Fluoranthene	0.010	0.020	ND
Fluorene	0.010	0.020	ND
Naphthalene	0.010	0.020	ND
Phenanthrene	0.010	0.020	ND
Pyrene	0.010	0.020	ND
Our Lab I.D.	70830.09		
Surrogates	%Rec.Limit	% Rec.	
p-Terphenyl-D14	75-125	121	



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 5

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70830	10/02/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 111913IB1; Dup or Spiked Sample: 71377.03; LCS: Clean Sand; QC Prepared: 11/19/2013; QC Analyzed: 11/19/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	113	0.0500	0.0600	120	6.01	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0500	98.2	0.0500	0.0500	105	6.69	75-125	<20
Naphthalene	0.00	0.500	0.500	101	0.500	0.550	109	7.62	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.411	103	0.400	0.474	119	14.4	75-125	<20

QC Batch No: 111913IB1; Dup or Spiked Sample: 71377.03; LCS: Clean Sand; QC Prepared: 11/19/2013; QC Analyzed: 11/19/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
Benzo(a)anthracene	0.0500	0.0600	116	75-125
Benzo(a)pyrene	0.0500	0.0500	97.8	75-125
Naphthalene	0.500	0.520	104	75-125
<b>LCS</b>				
Acenaphthene	0.500	0.540	109	75-125
Acenaphthylene	1.00	0.970	97.0	75-125
Anthracene	0.0500	0.0500	101	75-125
Benzo(b)fluoranthene	0.100	0.110	105	75-125
Benzo(g,h,i)perylene	0.100	0.110	113	75-125
Benzo(k)fluoranthene	0.0500	0.0500	108	75-125
Chrysene	0.0500	0.0600	115	75-125
Dibenzo(a,h)anthracene	0.100	0.120	116	75-125
Fluoranthene	0.100	0.110	110	75-125
Fluorene	0.100	0.0900	92.9	75-125
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	98.6	75-125
Phenanthrene	0.0500	0.0600	112	75-125
Pyrene	0.0500	0.0500	102	75-125
<b>Surrogates</b>				
p-Terphenyl-D14	0.400	0.452	113	75-125





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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 5  
Date Received 10/02/2013  
Date Reported 10/03/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70829	10/02/2013	SC/G

**Project ID:** ALAMEDA  
**Project Name:** Alameda MGP  
**Site:** Offsite Investigation  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 2 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



**American Environmental Testing Laboratory Inc.**  
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# CHAIN OF CUSTODY RECORD

No 82183

Page 1 of 1

AETL JOB No. **70829**

COMPANY So Cal Gas PROJECT MANAGER K Chepe  
 COMPANY ADDRESS 555 W 54th St. L.A. CA PHONE \_\_\_\_\_ FAX \_\_\_\_\_  
 PROJECT NAME From Alameda Mtd PROJECT # \_\_\_\_\_  
 SITE NAME AND ADDRESS off-site investigation PO # \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS
1	A-05I-33-1.5	70829.01	10/2/13	soil	4oz/12oz	-				
2	A-05I-33-3	70829.02	10/10							AVA
3	A-05I-33-5	70829.03	10/13							HOLD
4	A-05I-34-1.5	70829.04	10/32							HOLD
5	A-05I-34-3	70829.05	10/35							HOLD
6	A-05I-34-5	70829.06	10/37							HOLD
7										
8										
9										
10										
11										
12										
13										
14										
15										

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS 6 PROPERLY COOLED Y / N / NA  
 CUSTODY SEALS Y / N / NA SAMPLES INTACT Y / N / NA  
 RECEIVED IN GOOD COND. Y / N SAMPLES ACCEPTED Y / N

TURN AROUND TIME DATA DELIVERABLE REQUIRED

NORMAL  RUSH  SAME DAY  NEXT DAY  
 2 DAYS  3 DAYS

HARD COPY  
 PDF  
 GEOTRACKER (GLOBAL ID)  
 OTHER (PLEASE SPECIFY) \_\_\_\_\_

RELINQUISHED BY SAMPLER: 1. Signature: [Signature] Printed Name: [Name] Date: 10/2/13 Time: 1200  
 RELINQUISHED BY: 2. Signature: [Signature] Printed Name: [Name] Date: 10/2/13 Time: 1330  
 RECEIVED BY: 1. Signature: [Signature] Printed Name: [Name] Date: 10/2/13 Time: 1200  
 RECEIVED BY: 2. Signature: [Signature] Printed Name: [Name] Date: 10/2/13 Time: 1330  
 RECEIVED BY: 3. Signature: [Signature] Printed Name: [Name] Date: 10/2/13 Time: 1330

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 10/02/2013  
Date Reported 10/03/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70829	10/02/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 6 samples with the following specification on 10/02/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers	
70829.01	A-OSI-33-1.5	10/02/2013	Soil	1	
70829.04	A-OSI-34-1.5	10/02/2013	Soil	1	
<b>Method ^ Submethod</b>		<b>Req Date</b>	<b>Priority</b>	<b>TAT</b>	<b>Units</b>
(8310)		10/03/2013	2	Rush	mg/Kg
70829.02	A-OSI-33-3	10/02/2013	Soil	1	
70829.03	A-OSI-33-5	10/02/2013	Soil	1	
70829.05	A-OSI-34-3	10/02/2013	Soil	1	
70829.06	A-OSI-34-5	10/02/2013	Soil	1	
<b>Method ^ Submethod</b>		<b>Req Date</b>	<b>Priority</b>	<b>TAT</b>	<b>Units</b>
ARCHIVE		10/03/2013	2	Rush	--

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70829	10/02/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 100313IB1

Our Lab I.D.			Method Blank			
Client Sample I.D.						
Date Sampled						
Date Prepared			10/03/2013			
Preparation Method			3550B			
Date Analyzed			10/03/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			1			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.010	0.020	ND			
Benzo(a)pyrene	0.010	0.020	ND			
Benzo(b)fluoranthene	0.010	0.020	ND			
Benzo(k)fluoranthene	0.010	0.020	ND			
Chrysene	0.010	0.020	ND			
Dibenzo(a,h)anthracene	0.010	0.020	ND			
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND			
Acenaphthene	0.010	0.020	ND			
Acenaphthylene	0.010	0.020	ND			
Anthracene	0.010	0.020	ND			
Benzo(g,h,i)perylene	0.010	0.020	ND			
Fluoranthene	0.010	0.020	ND			
Fluorene	0.010	0.020	ND			
Naphthalene	0.010	0.020	ND			
Phenanthrene	0.010	0.020	ND			
Pyrene	0.010	0.020	ND			
Our Lab I.D.			Method Blank			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		105			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70829	10/02/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 100313IB1

Our Lab I.D.			70829.01			
Client Sample I.D.			A-OSI-33-1.5			
Date Sampled			10/02/2013			
Date Prepared			10/03/2013			
Preparation Method			3550B			
Date Analyzed			10/03/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			2			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.020	0.040	0.0960			
Benzo(a)pyrene	0.020	0.040	0.354			
Benzo(b)fluoranthene	0.020	0.040	0.263			
Benzo(k)fluoranthene	0.020	0.040	0.134			
Chrysene	0.020	0.040	0.234			
Dibenzo(a,h)anthracene	0.020	0.040	ND			
Indeno(1,2,3-cd)pyrene	0.020	0.040	0.313			
Acenaphthene	0.020	0.040	ND			
Acenaphthylene	0.020	0.040	ND			
Anthracene	0.020	0.040	ND			
Benzo(g,h,i)perylene	0.020	0.040	0.418			
Fluoranthene	0.020	0.040	0.435			
Fluorene	0.020	0.040	ND			
Naphthalene	0.020	0.040	ND			
Phenanthrene	0.020	0.040	0.165			
Pyrene	0.020	0.040	0.601			
Our Lab I.D.			70829.01			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		79.3			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
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 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70829	10/02/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 100313IB1

Our Lab I.D.	70829.04		
Client Sample I.D.	A-OSI-34-1.5		
Date Sampled	10/02/2013		
Date Prepared	10/03/2013		
Preparation Method	3550B		
Date Analyzed	10/03/2013		
Matrix	Soil		
Units	mg/Kg		
Dilution Factor	5		
Analytes	MDL	PQL	Results
Benzo(a)anthracene	0.050	0.100	0.961
Benzo(a)pyrene	0.050	0.100	1.77
Benzo(b)fluoranthene	0.050	0.100	1.10
Benzo(k)fluoranthene	0.050	0.100	0.724
Chrysene	0.050	0.100	1.51
Dibenzo(a,h)anthracene	0.050	0.100	ND
Indeno(1,2,3-cd)pyrene	0.050	0.100	1.81
Acenaphthene	0.050	0.100	ND
Acenaphthylene	0.050	0.100	ND
Anthracene	0.050	0.100	ND
Benzo(g,h,i)perylene	0.050	0.100	2.42
Fluoranthene	0.050	0.100	1.99
Fluorene	0.050	0.100	ND
Naphthalene	0.050	0.100	0.0502J
Phenanthrene	0.050	0.100	0.299
Pyrene	0.050	0.100	3.12
Our Lab I.D.	70829.04		
Surrogates	%Rec.Limit	% Rec.	
p-Terphenyl-D14	75-125	105	





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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 5

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70829	10/02/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 100313IB1; Dup or Spiked Sample: B100313IB1; LCS: Clean Sand; QC Prepared: 10/03/2013; QC Analyzed: 10/03/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0535	107	0.0500	0.0550	110	2.76	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0500	100	0.0500	0.0498	99.6	<1	75-125	<20
Naphthalene	0.00	0.500	0.515	103	0.500	0.499	99.8	3.16	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.397	99.3	0.400	0.391	97.8	1.51	75-125	<20

QC Batch No: 100313IB1; Dup or Spiked Sample: B100313IB1; LCS: Clean Sand; QC Prepared: 10/03/2013; QC Analyzed: 10/03/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
Benzo(a)anthracene	0.0500	0.0600	112	75-125
Benzo(a)pyrene	0.0500	0.0500	99.6	75-125
Naphthalene	0.500	0.510	102	75-125
<b>LCS</b>				
Acenaphthene	0.500	0.550	110	75-125
Acenaphthylene	1.00	0.990	98.6	75-125
Anthracene	0.0500	0.0500	103	75-125
Benzo(b)fluoranthene	0.100	0.110	106	75-125
Benzo(g,h,i)perylene	0.100	0.0800	80.7	75-125
Benzo(k)fluoranthene	0.0500	0.0600	111	75-125
Chrysene	0.0500	0.0600	112	75-125
Dibenzo(a,h)anthracene	0.100	0.110	114	75-125
Fluoranthene	0.100	0.110	110	75-125
Fluorene	0.100	0.100	102	75-125
Indeno(1,2,3-cd)pyrene	0.0500	0.0600	114	75-125
Phenanthrene	0.0500	0.0600	110	75-125
Pyrene	0.0500	0.0500	104	75-125
<b>Surrogates</b>				
p-Terphenyl-D14	0.400	0.398	99.5	75-125



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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 4  
Date Received 10/01/2013  
Date Reported 10/02/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70819	10/01/2013	SC/G

**Project ID:** ALAMEDA  
**Project Name:** Alameda MGP  
**Site:** Offsite Investigation  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 4 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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**CHAIN OF CUSTODY RECORD**

No 82181

AETL JOB No. 70819

Page 1 of 1

COMPANY: So Cal Gas PROJECT MANAGER: N. Chaya  
 COMPANY ADDRESS: 555 W. 5th St, LA, CA PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
 PROJECT NAME: Ferne Alameda Nat PROJECT #: \_\_\_\_\_  
 SITE NAME AND ADDRESS: off site meshy obin PO #: \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS
							1.	2.	3.	
1 A-OSI-19-1570819.0		10/1/13	1017	SOIL	400/1	-				
2 A-OSI-19-3	70819.02		1020				X			← RUN
3 A-OSI-19-5	70819.03		1025				X			← RUN → HOLD
4 A-OSI-26-15	70819.07		1038				X			← HOLD
5 A-OSI-26-3	70819.05		1042				X			← HOLD
6 A-OSI-26-5	70819.06		1048				X			← RUN
7 A-OSI-27-15	70819.07		1103				X			← RUN
8 A-OSI-28-15	70819.08		1113				X			← RUN
9 A-OSI-28-3	70819.09		1120				X			← HOLD
10 A-OSI-28-5	70819.10		1123				X			← HOLD
11 A-OSI-29-15	70819.11		1133				X			← RUN
12 A-OSI-29-3	70819.12		1146				X			← RUN
13 A-OSI-29-5	70819.13		1149				X			← HOLD
14										
15										

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: 13 PROPERLY COOLED: Y / N / NA  
 CUSTODY SEALS: Y / N / NA SAMPLES INTACT: Y / N / NA  
 RECEIVED IN GOOD COND: Y / N SAMPLES ACCEPTED: Y / N

RELINQUISHED BY SAMPLER: [Signature] Signature: \_\_\_\_\_  
 Printed Name: F. Mancoske  
 Date: 10/1/13 Time: 1345

RELINQUISHED BY: [Signature] Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: 10/01/13 Time: 1440

RECEIVED BY: [Signature] Signature: \_\_\_\_\_  
 Printed Name: CHARLON PAVON  
 Date: 10/1/13 Time: 1345

RECEIVED BY LABORATORY: [Signature] Signature: \_\_\_\_\_  
 Printed Name: Jean Claude  
 Date: 10/01/13 Time: 1440

TURN AROUND TIME: DATA DELIVERABLE REQUIRED  
 NORMAL  RUSH  SAME DAY  NEXT DAY  
 2 DAYS  3 DAYS  
 HARD COPY  PDF  
 GEOTRACKER (GLOBAL ID)  OTHER (PLEASE SPECIFY) \_\_\_\_\_

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 10/01/2013  
Date Reported 10/02/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70819	10/01/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 13 samples with the following specification on 10/01/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70819.01	A-OSI-19-1.5	10/01/2013	Soil	1
70819.07	A-OSI-27-1.5	10/01/2013	Soil	1
70819.08	A-OSI-28-1.5	10/01/2013	Soil	1
70819.11	A-OSI-29-1.5	10/01/2013	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	10/02/2013	2	Rush	mg/Kg
70819.02	A-OSI-19-3	10/01/2013	Soil	1
70819.03	A-OSI-19-5	10/01/2013	Soil	1
70819.04	A-OSI-26-1.5	10/01/2013	Soil	1
70819.05	A-OSI-26-3	10/01/2013	Soil	1
70819.06	A-OSI-26-5	10/01/2013	Soil	1
70819.09	A-OSI-28-3	10/01/2013	Soil	1
70819.10	A-OSI-28-5	10/01/2013	Soil	1
70819.12	A-OSI-29-3	10/01/2013	Soil	1
70819.13	A-OSI-29-5	10/01/2013	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	10/02/2013	2	Rush	--

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70819	10/01/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 100113IB1

Our Lab I.D.			Method Blank	70819.01	70819.07	70819.08	
Client Sample I.D.				A-OSI-19-1.5	A-OSI-27-1.5	A-OSI-28-1.5	
Date Sampled				10/01/2013	10/01/2013	10/01/2013	
Date Prepared			10/01/2013	10/01/2013	10/01/2013	10/01/2013	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			10/01/2013	10/01/2013	10/01/2013	10/01/2013	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Benzo(a)anthracene	0.010	0.020	ND	0.077	0.316	1.62	
Benzo(a)pyrene	0.010	0.020	ND	0.185	0.521	2.44	
Benzo(b)fluoranthene	0.010	0.020	ND	0.117	0.303	1.40	
Benzo(k)fluoranthene	0.010	0.020	ND	0.065	0.195	0.901	
Chrysene	0.010	0.020	ND	0.103	0.416	1.96	
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.200	0.481	2.22	
Acenaphthene	0.010	0.020	ND	ND	ND	ND	
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	
Anthracene	0.010	0.020	ND	ND	ND	0.022	
Benzo(g,h,i)perylene	0.010	0.020	ND	0.263	0.637	3.14	
Fluoranthene	0.010	0.020	ND	0.180	0.812	3.51	
Fluorene	0.010	0.020	ND	ND	ND	ND	
Naphthalene	0.010	0.020	ND	ND	ND	0.019J	
Phenanthrene	0.010	0.020	ND	0.028	0.180	0.298	
Pyrene	0.010	0.020	ND	0.278	1.12	5.20	
Our Lab I.D.			Method Blank	70819.01	70819.07	70819.08	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125		103	97.7	83.4	96.3	



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70819	10/01/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 100113IB1

Our Lab I.D.			70819.11			
Client Sample I.D.			A-OSI-29-1.5			
Date Sampled			10/01/2013			
Date Prepared			10/01/2013			
Preparation Method			3550B			
Date Analyzed			10/01/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			100			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	1.000	2.000	157			
Benzo(a)pyrene	1.000	2.000	199			
Benzo(b)fluoranthene	1.000	2.000	129			
Benzo(k)fluoranthene	1.000	2.000	80.3			
Chrysene	1.000	2.000	191			
Dibenzo(a,h)anthracene	1.000	2.000	ND			
Indeno(1,2,3-cd)pyrene	1.000	2.000	180			
Acenaphthene	1.000	2.000	ND			
Acenaphthylene	1.000	2.000	ND			
Anthracene	1.000	2.000	3.27			
Benzo(g,h,i)perylene	1.000	2.000	216			
Fluoranthene	1.000	2.000	396			
Fluorene	1.000	2.000	ND			
Naphthalene	1.000	2.000	1.12J			
Phenanthrene	1.000	2.000	44.9			
Pyrene	1.000	2.000	527			
Our Lab I.D.			70819.11			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		181 S6			





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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70819	10/01/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 100113IB1; Dup or Spiked Sample: 70818.01; LCS: Clean Sand; QC Prepared: 10/01/2013; QC Analyzed: 10/01/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0560	112	0.0500	0.0565	113	<1	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0486	97.2	0.0500	0.0481	96.2	1.0	75-125	<20
Naphthalene	0.00	0.500	0.540	108	0.500	0.530	106	1.9	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.400	100	0.400	0.416	104	3.9	75-125	<20

QC Batch No: 100113IB1; Dup or Spiked Sample: 70818.01; LCS: Clean Sand; QC Prepared: 10/01/2013; QC Analyzed: 10/01/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
Benzo(a)anthracene	0.0500	0.0560	112	75-125
Benzo(a)pyrene	0.0500	0.0505	101	75-125
Naphthalene	0.500	0.515	103	75-125
<b>LCS</b>				
Acenaphthene	0.500	0.550	110	75-125
Acenaphthylene	1.00	0.992	99.2	75-125
Anthracene	0.0500	0.0500	100	75-125
Benzo(b)fluoranthene	0.100	0.104	104	75-125
Benzo(g,h,i)perylene	0.100	0.0908	90.8	75-125
Benzo(k)fluoranthene	0.0500	0.0535	107	75-125
Chrysene	0.0500	0.0555	111	75-125
Dibenzo(a,h)anthracene	0.100	0.117	117	75-125
Fluoranthene	0.100	0.109	109	75-125
Fluorene	0.100	0.101	101	75-125
Indeno(1,2,3-cd)pyrene	0.0500	0.0560	112	75-125
Phenanthrene	0.0500	0.0550	110	75-125
Pyrene	0.0500	0.0550	110	75-125
<b>Surrogates</b>				
p-Terphenyl-D14	0.400	0.388	97.0	75-125



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### Data Qualifiers and Descriptors

#### *Data Qualifier:*

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- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### *Definition:*

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 8  
Date Received 09/27/2013  
Date Reported 09/30/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70787	09/27/2013	SC/G

**Project ID:** ALAMEDA  
**Project Name:** Alameda MGP  
**Site:** Alameda MGP  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 13 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



**American Environmental Testing Laboratory Inc.**  
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# CHAIN OF CUSTODY RECORD

No 74431

70787

AETL JOB No.

Page 1 of 1

COMPANY So Cal Gas PROJECT MANAGER K. Claype

COMPANY ADDRESS 555 W. 5th St. L.A., CA PHONE \_\_\_\_\_ FAX \_\_\_\_\_

PROJECT NAME Fom Manada Mbrf PROJECT # \_\_\_\_\_

SITE NAME AND ADDRESS 732 Manada L.A. Obeside Investigation PO # \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS	
1	A-OIS-22-1.5	70787.01	0817	SPIL	402/1 Jar	-						
2	A-OIS-22-1.5	70787.02	0824				X					from all samples
3	A-OIS-22-3	70787.03	0824				X					
4	A-OIS-22-5	70787.04	0827				X					
5	A-OIS-23-1.5	70787.05	0905				X					
6	A-OIS-23-3	70787.06	0913				X					
7	A-OIS-23-5	70787.07	0918				X					
8	A-OIS-24-1.5	70787.08	0952				X					
9	A-OIS-24-3	70787.09	0954				X					
10	A-OIS-24-5	70787.10	0958				X					
11	A-OIS-25-1.5	70787.11	1020				X					
12	A-OIS-25-3	70787.12	1025				X					
13	A-OIS-25-5	70787.13	1030				X					
14												
15												

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS 13 PROPERLY COOLED Y/N/NA \_\_\_\_\_

CUSTODY SEALS Y/N/NA SAMPLES INTACT Y/N/NA \_\_\_\_\_

RECEIVED IN GOOD COND. Y/N SAMPLES ACCEPTED Y/N

TURN AROUND TIME

NORMAL  RUSH  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

RELINQUISHED BY: 1. Signature: [Signature] Date: 9/27/13 Time: 1123

RECEIVED BY: 1. Signature: [Signature] Date: 9/27/13 Time: 1123

RELINQUISHED BY: 2. Signature: [Signature] Date: 9/27/13 Time: 1158

RECEIVED BY: 2. Signature: [Signature] Date: 9/27/13 Time: 1158

RELINQUISHED BY: 3. Signature: [Signature] Date: 9/27/13 Time: 1158

RECEIVED BY: 3. Signature: [Signature] Date: 9/27/13 Time: 1158

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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/27/2013  
Date Reported 09/30/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70787	09/27/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 13 samples with the following specification on 09/27/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70787.01	A-OIS-22-1.5	09/27/2013	Soil	1
70787.02	A-OIS-22-1.5D	09/27/2013	Soil	1
70787.03	A-OIS-22-3	09/27/2013	Soil	1
70787.04	A-OIS-22-5	09/27/2013	Soil	1
70787.05	A-OIS-23-1.5	09/27/2013	Soil	1
70787.06	A-OIS-23-3	09/27/2013	Soil	1
70787.07	A-OIS-23-5	09/27/2013	Soil	1
70787.08	A-OIS-24-1.5	09/27/2013	Soil	1
70787.09	A-OIS-24-3	09/27/2013	Soil	1
70787.10	A-OIS-24-5	09/27/2013	Soil	1
70787.11	A-OIS-25-1.5	09/27/2013	Soil	1
70787.12	A-OIS-25-3	09/27/2013	Soil	1
70787.13	A-OIS-25-5	09/27/2013	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	09/30/2013	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70787	09/27/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092713IB1

Our Lab I.D.			Method Blank	70787.01		
Client Sample I.D.				A-OIS-22-1.5		
Date Sampled				09/27/2013		
Date Prepared			09/27/2013	09/27/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/27/2013	09/27/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	1.22		
Benzo(a)pyrene	0.010	0.020	ND	1.77		
Benzo(b)fluoranthene	0.010	0.020	ND	1.02		
Benzo(k)fluoranthene	0.010	0.020	ND	0.675		
Chrysene	0.010	0.020	ND	1.41		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	1.72		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	0.0128J		
Anthracene	0.010	0.020	ND	0.0189J		
Benzo(g,h,i)perylene	0.010	0.020	ND	2.35		
Fluoranthene	0.010	0.020	ND	2.43		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	0.0231		
Phenanthrene	0.010	0.020	ND	0.250		
Pyrene	0.010	0.020	ND	3.46		
Our Lab I.D.			Method Blank	70787.01		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		108	111		



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## ANALYTICAL RESULTS

### Ordered By

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 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70787	09/27/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092713IB1

<b>Our Lab I.D.</b>			<b>70787.02</b>			
Client Sample I.D.			A-OIS-22-1.5 D			
Date Sampled			09/27/2013			
Date Prepared			09/27/2013			
Preparation Method			3550B			
Date Analyzed			09/27/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			2			
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>			
Benzo(a)anthracene	0.020	0.040	0.569			
Benzo(a)pyrene	0.020	0.040	1.22			
Benzo(b)fluoranthene	0.020	0.040	0.784			
Benzo(k)fluoranthene	0.020	0.040	0.475			
Chrysene	0.020	0.040	0.901			
Dibenzo(a,h)anthracene	0.020	0.040	ND			
Indeno(1,2,3-cd)pyrene	0.020	0.040	1.21			
Acenaphthene	0.020	0.040	ND			
Acenaphthylene	0.020	0.040	ND			
Anthracene	0.020	0.040	ND			
Benzo(g,h,i)perylene	0.020	0.040	1.41			
Fluoranthene	0.020	0.040	1.69			
Fluorene	0.020	0.040	ND			
Naphthalene	0.020	0.040	0.0207J			
Phenanthrene	0.020	0.040	0.169			
Pyrene	0.020	0.040	2.43			
<b>Our Lab I.D.</b>			<b>70787.02</b>			
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>			
p-Terphenyl-D14	75-125		92.5			





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## ANALYTICAL RESULTS

### Ordered By

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 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70787	09/27/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092713IB1

Our Lab I.D.			70787.03	70787.04		
Client Sample I.D.			A-OIS-22-3	A-OIS-22-5		
Date Sampled			09/27/2013	09/27/2013		
Date Prepared			09/27/2013	09/27/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/27/2013	09/27/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	0.0283	ND		
Benzo(a)pyrene	0.010	0.020	0.124	ND		
Benzo(b)fluoranthene	0.010	0.020	0.0622	ND		
Benzo(k)fluoranthene	0.010	0.020	0.0401	ND		
Chrysene	0.010	0.020	0.0942	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	0.0844	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	0.138	ND		
Fluoranthene	0.010	0.020	0.110	ND		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	0.0818	ND		
Pyrene	0.010	0.020	0.189	ND		
Our Lab I.D.			70787.03	70787.04		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		97.5	102		



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## ANALYTICAL RESULTS

### Ordered By

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### Site

Alameda MGP  
 732 S Alameda Street  
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Telephone: (213)244-5832

Attn: Kathleen Cheyney

Page: 5

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70787	09/27/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092713IB1

Our Lab I.D.			70787.05			
Client Sample I.D.			A-OIS-23-1.5			
Date Sampled			09/27/2013			
Date Prepared			09/27/2013			
Preparation Method			3550B			
Date Analyzed			09/28/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			100			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	1.000	2.000	127			
Benzo(a)pyrene	1.000	2.000	184			
Benzo(b)fluoranthene	1.000	2.000	122			
Benzo(k)fluoranthene	1.000	2.000	68.2			
Chrysene	1.000	2.000	150			
Dibenzo(a,h)anthracene	1.000	2.000	ND			
Indeno(1,2,3-cd)pyrene	1.000	2.000	185			
Acenaphthene	1.000	2.000	ND			
Acenaphthylene	1.000	2.000	ND			
Anthracene	1.000	2.000	2.44			
Benzo(g,h,i)perylene	1.000	2.000	242			
Fluoranthene	1.000	2.000	284			
Fluorene	1.000	2.000	ND			
Naphthalene	1.000	2.000	1.91J			
Phenanthrene	1.000	2.000	37.2			
Pyrene	1.000	2.000	386			
Our Lab I.D.			70787.05			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		3850 S6			



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## ANALYTICAL RESULTS

### Ordered By

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 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 6

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70787	09/27/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092713IB1

Our Lab I.D.			70787.06	70787.07	70787.08	70787.09	70787.10
Client Sample I.D.			A-OIS-23-3	A-OIS-23-5	A-OIS-24-1.5	A-OIS-24-3	A-OIS-24-5
Date Sampled			09/27/2013	09/27/2013	09/27/2013	09/27/2013	09/27/2013
Date Prepared			09/27/2013	09/27/2013	09/27/2013	09/27/2013	09/27/2013
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			09/27/2013	09/27/2013	09/27/2013	09/28/2013	09/28/2013
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	0.191	0.0111J	0.471	ND	ND
Benzo(a)pyrene	0.010	0.020	0.301	0.0241	0.771	ND	ND
Benzo(b)fluoranthene	0.010	0.020	0.188	0.0140J	0.450	ND	ND
Benzo(k)fluoranthene	0.010	0.020	0.112	ND	0.290	ND	ND
Chrysene	0.010	0.020	0.243	0.0163J	0.592	ND	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	0.309	0.0239	0.832	ND	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	0.431	0.0342	1.17	ND	ND
Fluoranthene	0.010	0.020	0.452	0.0300	0.876	ND	ND
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	0.0136J	ND	ND
Phenanthrene	0.010	0.020	0.0571	ND	0.155	ND	ND
Pyrene	0.010	0.020	0.647	0.0438	1.30	ND	ND
Our Lab I.D.			70787.06	70787.07	70787.08	70787.09	70787.10
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
p-Terphenyl-D14	75-125		105	102	92.3	101	100



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 7

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70787	09/27/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092713IB1

Our Lab I.D.			70787.11	70787.12	70787.13		
Client Sample I.D.			A-OIS-25-1.5	A-OIS-25-3	A-OIS-25-5		
Date Sampled			09/27/2013	09/27/2013	09/27/2013		
Date Prepared			09/27/2013	09/27/2013	09/27/2013		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			09/28/2013	09/28/2013	09/28/2013		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Benzo(a)anthracene	0.010	0.020	0.561	ND	ND		
Benzo(a)pyrene	0.010	0.020	1.14	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	0.752	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	0.443	ND	ND		
Chrysene	0.010	0.020	0.832	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	1.09	ND	ND		
Acenaphthene	0.010	0.020	ND	ND	ND		
Acenaphthylene	0.010	0.020	0.0319	ND	ND		
Anthracene	0.010	0.020	0.0192J	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	1.54	ND	ND		
Fluoranthene	0.010	0.020	1.42	ND	ND		
Fluorene	0.010	0.020	0.0124J	ND	ND		
Naphthalene	0.010	0.020	0.0421	ND	ND		
Phenanthrene	0.010	0.020	0.401	ND	ND		
Pyrene	0.010	0.020	2.04	ND	ND		
Our Lab I.D.			70787.11	70787.12	70787.13		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
p-Terphenyl-D14	75-125		76.5	102	103		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 8

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70787	09/27/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092713IB1; Dup or Spiked Sample: 70781.06; LCS: Clean Sand; QC Prepared: 09/27/2013; QC Analyzed: 09/27/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0500	104	0.0500	0.0500	99.6	4.32	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0500	91.8	0.0500	0.0400	89.8	2.20	75-125	<20
Naphthalene	0.00	0.500	0.500	101	0.500	0.500	99.4	1.60	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.390	97.5	0.400	0.383	95.8	1.74	75-125	<20

QC Batch No: 092713IB1; Dup or Spiked Sample: 70781.06; LCS: Clean Sand; QC Prepared: 09/27/2013; QC Analyzed: 09/27/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0500	107	75-125						
Benzo(a)pyrene	0.0500	0.0500	92.8	75-125						
Naphthalene	0.500	0.520	103	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.550	110	75-125						
Acenaphthylene	1.00	0.970	96.7	75-125						
Anthracene	0.0500	0.0500	105	75-125						
Benzo(b)fluoranthene	0.100	0.100	104	75-125						
Benzo(g,h,i)perylene	0.100	0.110	107	75-125						
Benzo(k)fluoranthene	0.0500	0.0500	108	75-125						
Chrysene	0.0500	0.0500	108	75-125						
Dibenzo(a,h)anthracene	0.100	0.110	112	75-125						
Fluoranthene	0.100	0.110	107	75-125						
Fluorene	0.100	0.100	98.9	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	95.8	75-125						
Phenanthrene	0.0500	0.0500	109	75-125						
Pyrene	0.0500	0.0500	102	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.406	102	75-125						



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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



## American Environmental Testing Laboratory Inc.

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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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## American Environmental Testing Laboratory Inc.

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### Ordered By

Southern California Gas Company  
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Los Angeles, CA 90013-1011

Number of Pages 15  
Date Received 09/26/2013  
Date Reported 10/01/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70781	09/26/2013	SC/G

**Project ID:** ALAMEDA  
**Project Name:** Alameda MGP  
**Site:** Offsite Investigation  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 23 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





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# CHAIN OF CUSTODY RECORD

No 74429

COMPANY: So Cal Gas PROJECT MANAGER: K. Cheyne AETL JOB NO.: 70781 Page 1 of 1

COMPANY ADDRESS: 555 West 5th St., Los Angeles, CA PHONE: \_\_\_\_\_  
 PROJECT NAME: Former Alameda MGP PROJECT # \_\_\_\_\_  
 SITE NAME AND ADDRESS: Off-site Investigation PO # \_\_\_\_\_

ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS	
X					*Added 9/27 1 DAY TAT
X					Added 9/30 1 DAY TAT
X					} RUN
X					
X					} HOLD Run (24)
X					
X					} RUN
X					
X					} HOLD
X					
X					} RUN
X					

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY				RELINQUISHED BY:	
TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED	Y/N/NA	1.	2.
CUSTODY SEALS	Y/N/NA	SAMPLES INTACT	Y/N/NA	Signature: _____	Signature: _____
RECEIVED IN GOOD COND.	Y/N	SAMPLES ACCEPTED	Y/N	Printed Name: <u>F. M. ...</u>	Printed Name: <u>...</u>
TURN AROUND TIME				Date: <u>9/26/13</u>	Date: <u>9/26/13</u>
<input type="checkbox"/> NORMAL	<input checked="" type="checkbox"/> RUSH	<input type="checkbox"/> SAME DAY	<input type="checkbox"/> 2 DAYS	RECEIVED BY: 1.	RECEIVED BY: 2.
		<input checked="" type="checkbox"/> NEXT DAY	<input type="checkbox"/> 3 DAYS	Signature: _____	Signature: _____
				Printed Name: <u>S. ...</u>	Printed Name: <u>...</u>
				Date: <u>9/26/13</u>	Date: <u>9/26/13</u>
				LABORATORY: <u>AETL 3.</u>	LABORATORY: <u>AETL 3.</u>
				Signature: _____	Signature: _____
				Printed Name: <u>...</u>	Printed Name: <u>...</u>
				Date: <u>9/26/13</u>	Date: <u>9/26/13</u>

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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**CHAIN OF CUSTODY RECORD**  
 No 74430

COMPANY So Cal Gas PROJECT MANAGER K. Cheyre AETL JOB No. 70781 Page 2 of 2

COMPANY ADDRESS 555 W. 5th St. L.A. CA PHONE \_\_\_\_\_  
 AND ADDRESS Alameda MGP offsite FAX \_\_\_\_\_  
 PROJECT NAME Alameda MGP offsite PROJECT # \_\_\_\_\_  
 SITE NAME In verification PO # \_\_\_\_\_

ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
1	PM's 830		
2	X		← RUN
3	X		← RUN
4	X		← RUN
5	X		
6	X		
7	X		
8	X		
9	X		
10			
11			
12			
13			
14			
15			

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	A-015-17-5	70781-16	9/26/13	SOIL	402/1	—
2	A-015-18-1	70781-17	1215			
3	A-015-18-3	70781-18	1255			
4	A-015-18-5	70781-19	1200			
5	A-015-20-2	70781-20	1345			
6	A-015-20-3	70781-21	1350			
7	A-015-20-5	70781-22	1355			
8	A-015-21-2	70781-23	1430			
9						
10						
11						
12						
13						
14						
15						

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS 8 PROPERLY COOLED Y/N/NA  
 CUSTODY SEALS Y/N/NA SAMPLES INTACT Y/N/NA  
 RECEIVED IN GOOD COND. Y/N SAMPLES ACCEPTED Y/N

TURN AROUND TIME  
 NORMAL  RUSH  SAME DAY  2 DAYS  
 NEXT DAY  3 DAYS

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: <u>[Signature]</u> Printed Name: <u>F. Mason</u> Date: <u>9/26/13</u> Time: <u>1445</u>	Signature: <u>[Signature]</u> Printed Name: <u>Pargis-P</u> Date: <u>9-26-13</u> Time: <u>1600</u>	Signature: <u>[Signature]</u> Printed Name: <u>[Signature]</u> Date: <u>9-26-13</u> Time: <u>1600</u>
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY: 3.

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

## Cyrus Razmara

---

**From:** Mascioni, Fabrizio [Fabrizio.Mascioni@parsons.com]  
**Sent:** Sunday, September 29, 2013 7:37 PM  
**To:** Cyrus Razmara; Kathleen Cheyne; Craig, Shala; JIM LIN  
**Subject:** RE: Soil sample (AETL Job No.:70781) from "Alameda MGP Site" located on 732 South Alameda Street, Los Angeles, CA 90021.

Cyrus/Jim,  
Can you also analyze samples A-OIS-16-1.5, -3, and -5 please? 24 TAT as well.  
Thank you!

Fabrizio Mascioni, P.G.  
Principal Geologist  
PARSONS  
100 West Walnut Street  
Pasadena, CA 91124  
Phone: (626) 440-3226  
Cellphone: (310) 569-3677  
Fax: (626) 440-2993

---

**From:** Cyrus Razmara [mailto:cyrus@aetlab.com]  
**Sent:** Friday, September 27, 2013 4:55 PM  
**To:** Mascioni, Fabrizio; Kathleen Cheyne; Mercedes Diaz; Craig, Shala  
**Subject:** Soil sample (AETL Job No.:70781) from "Alameda MGP Site" located on 732 South Alameda Street, Los Angeles, CA 90021.

Dear Kathleen, Shala, Fabrizio, and Mercedes:

Herewith please find Results of analysis (In Summary Table & PDF formats) of Soil sample from "Alameda MGP Site" located on 732 South Alameda Street, Los Angeles, CA 90021.

AETL Job No: 70781 (Complete results).

If you have any questions, please call me at 888-288-AETL.

Cyrus Razmara Ph.D.  
Laboratory Director  
American Environmental Testing Laboratory

## JIM LIN

---

**From:** Mascioni, Fabrizio [Fabrizio.Mascioni@parsons.com]  
**Sent:** Friday, September 27, 2013 8:05 AM  
**To:** 'jiml@aetlab.com'  
**Cc:** 'kcheyne@semprautilities.com'; Craig, Shala  
**Subject:** Re: Pick up tomorrow

Jim, please analyze samples A-OIS-14-1.5, -3, and -5.  
Thank you!

---

**From:** Mascioni, Fabrizio  
**Sent:** Thursday, September 26, 2013 06:39 PM  
**To:** JIM LIN <jiml@aetlab.com>  
**Subject:** Pick up tomorrow

Jim can you schedule another pick up tomorrow in Alameda at 2:00PM  
Thank you!

Fabrizio Mascioni, P.G.  
Principal Geologist  
PARSONS  
100 West Walnut Street  
Pasadena, CA 91124  
Phone: (626) 440-3226  
Cellphone: (310) 569-3677  
Fax: (626) 440-2993



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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/26/2013  
Date Reported 09/27/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70781	09/26/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 23 samples with the following specification on 09/26/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70781.01	A-OIS-13-1.5	09/26/2013	Soil	1
70781.02	A-OIS-13-3	09/26/2013	Soil	1
70781.03	A-OIS-13-3D	09/26/2013	Soil	1
70781.04	A-OIS-13-5	09/26/2013	Soil	1
70781.05	A-OIS-14-1.5	09/26/2013	Soil	1
70781.06	A-OIS-14-3	09/26/2013	Soil	1
70781.07	A-OIS-14-5	09/26/2013	Soil	1
70781.08	A-OIS-15-1.5	09/26/2013	Soil	1
70781.09	A-OIS-15-3	09/26/2013	Soil	1
70781.10	A-OIS-15-5	09/26/2013	Soil	1
70781.11	A-OIS-16-1.5	09/26/2013	Soil	1
70781.12	A-OIS-16-3	09/26/2013	Soil	1
70781.13	A-OIS-16-5	09/26/2013	Soil	1
70781.14	A-OIS-17-1.5	09/26/2013	Soil	1
70781.15	A-OIS-17-3	09/26/2013	Soil	1
70781.16	A-OIS-17-5	09/26/2013	Soil	1
70781.17	A-OIS-18-1.5	09/26/2013	Soil	1
70781.18	A-OIS-18-3	09/26/2013	Soil	1
70781.19	A-OIS-18-5	09/26/2013	Soil	1
70781.20	A-OIS-20-2	09/26/2013	Soil	1
70781.21	A-OIS-20-3.5	09/26/2013	Soil	1
70781.22	A-OIS-20-5	09/26/2013	Soil	1
70781.23	A-OIS-21-2	09/26/2013	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	09/27/2013	2	Rush	mg/Kg

Continued



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Page: 1 B

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/26/2013  
Date Reported 09/27/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70781	09/26/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			Method Blank	70781.01	70781.02	70781.03	70781.04
Client Sample I.D.				A-OIS-13-1.5	A-OIS-13-3	A-OIS-13-3D	A-OIS-13-5
Date Sampled				09/26/2013	09/26/2013	09/26/2013	09/26/2013
Date Prepared			09/26/2013	09/26/2013	09/26/2013	09/26/2013	09/26/2013
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			09/26/2013	09/26/2013	09/26/2013	09/26/2013	09/26/2013
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	0.0122J	0.0239	ND	ND
Benzo(a)pyrene	0.010	0.020	ND	0.0244	0.0517	ND	ND
Benzo(b)fluoranthene	0.010	0.020	ND	0.0159J	0.0318	ND	ND
Benzo(k)fluoranthene	0.010	0.020	ND	ND	0.0188J	ND	ND
Chrysene	0.010	0.020	ND	0.0157J	0.0383	ND	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.0212	0.0448	ND	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	0.0322	0.0583	ND	ND
Fluoranthene	0.010	0.020	ND	0.0299	0.0651	ND	ND
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	ND	0.0154J	ND	ND
Pyrene	0.010	0.020	ND	0.0495	0.102	0.0149J	ND
Our Lab I.D.			Method Blank	70781.01	70781.02	70781.03	70781.04
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
p-Terphenyl-D14	75-125		115	108	107	107	105



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092713IB1

Our Lab I.D.			Method Blank	70781.05	70781.06	70781.07	
Client Sample I.D.				A-OIS-14-1.5	A-OIS-14-3	A-OIS-14-5	
Date Sampled				09/26/2013	09/26/2013	09/26/2013	
Date Prepared			09/27/2013	09/27/2013	09/27/2013	09/27/2013	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			09/27/2013	09/27/2013	09/27/2013	09/27/2013	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	
Benzo(a)pyrene	0.010	0.020	ND	0.175	ND	ND	
Benzo(b)fluoranthene	0.010	0.020	ND	0.0990	ND	ND	
Benzo(k)fluoranthene	0.010	0.020	ND	0.0617	ND	ND	
Chrysene	0.010	0.020	ND	ND	ND	ND	
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.161	ND	ND	
Acenaphthene	0.010	0.020	ND	ND	ND	ND	
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	
Anthracene	0.010	0.020	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.010	0.020	ND	0.135	ND	ND	
Fluoranthene	0.010	0.020	ND	0.228	ND	ND	
Fluorene	0.010	0.020	ND	ND	ND	ND	
Naphthalene	0.010	0.020	ND	0.0106J	ND	ND	
Phenanthrene	0.010	0.020	ND	0.0977	ND	ND	
Pyrene	0.010	0.020	ND	0.352	ND	ND	
Our Lab I.D.			Method Blank	70781.05	70781.06	70781.07	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125		108	79.0	105	101	





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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA  
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.08	70781.09	70781.10		
Client Sample I.D.			A-OIS-15-1.5	A-OIS-15-3	A-OIS-15-5		
Date Sampled			09/26/2013	09/26/2013	09/26/2013		
Date Prepared			09/26/2013	09/26/2013	09/26/2013		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			09/26/2013	09/26/2013	09/26/2013		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Benzo(a)anthracene	0.010	0.020	0.845	ND	ND		
Benzo(a)pyrene	0.010	0.020	1.72	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	1.08	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	0.622	ND	ND		
Chrysene	0.010	0.020	0.987	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	1.88	ND	ND		
Acenaphthene	0.010	0.020	ND	ND	ND		
Acenaphthylene	0.010	0.020	0.182	ND	ND		
Anthracene	0.010	0.020	0.0387	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	2.89	ND	ND		
Fluoranthene	0.010	0.020	1.62	ND	ND		
Fluorene	0.010	0.020	0.0856	ND	ND		
Naphthalene	0.010	0.020	0.0964	ND	ND		
Phenanthrene	0.010	0.020	0.432	ND	ND		
Pyrene	0.010	0.020	2.23	ND	ND		
Our Lab I.D.			70781.08	70781.09	70781.10		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
p-Terphenyl-D14	75-125		124	105	104		



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 5

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 093013IB1

Our Lab I.D.			Method Blank	70781.11	70781.12	70781.13	
Client Sample I.D.				A-OIS-16-1.5	A-OIS-16-3	A-OIS-16-5	
Date Sampled				09/26/2013	09/26/2013	09/26/2013	
Date Prepared			09/30/2013	09/30/2013	09/30/2013	09/30/2013	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			09/30/2013	09/30/2013	09/30/2013	09/30/2013	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Benzo(a)anthracene	0.010	0.020	ND	0.163	ND	ND	
Benzo(a)pyrene	0.010	0.020	ND	0.368	ND	ND	
Benzo(b)fluoranthene	0.010	0.020	ND	0.240	ND	ND	
Benzo(k)fluoranthene	0.010	0.020	ND	0.133	ND	ND	
Chrysene	0.010	0.020	ND	0.266	ND	ND	
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.384	ND	ND	
Acenaphthene	0.010	0.020	ND	ND	ND	ND	
Acenaphthylene	0.010	0.020	ND	ND	ND	0.0687	
Anthracene	0.010	0.020	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.010	0.020	ND	0.528	ND	ND	
Fluoranthene	0.010	0.020	ND	0.428	ND	ND	
Fluorene	0.010	0.020	ND	ND	ND	ND	
Naphthalene	0.010	0.020	ND	0.0137J	ND	ND	
Phenanthrene	0.010	0.020	ND	0.0961	ND	ND	
Pyrene	0.010	0.020	ND	0.629	ND	ND	
Our Lab I.D.			Method Blank	70781.11	70781.12	70781.13	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125		104	98.0	102	102	



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 6

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.14			
Client Sample I.D.			A-OIS-17-1.5			
Date Sampled			09/26/2013			
Date Prepared			09/26/2013			
Preparation Method			3550B			
Date Analyzed			09/27/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			5			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.050	0.100	27.6			
Benzo(a)pyrene	0.050	0.100	45.7			
Benzo(b)fluoranthene	0.050	0.100	32.6			
Benzo(k)fluoranthene	0.050	0.100	18.7			
Chrysene	0.050	0.100	31.7			
Dibenzo(a,h)anthracene	0.050	0.100	ND			
Indeno(1,2,3-cd)pyrene	0.050	0.100	51.5			
Acenaphthene	0.050	0.100	ND			
Acenaphthylene	0.050	0.100	0.189			
Anthracene	0.050	0.100	0.341			
Benzo(g,h,i)perylene	0.050	0.100	71.2			
Fluoranthene	0.050	0.100	64.9			
Fluorene	0.050	0.100	0.183			
Naphthalene	0.050	0.100	0.506			
Phenanthrene	0.050	0.100	7.03			
Pyrene	0.050	0.100	85.8			
Our Lab I.D.			70781.14			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		1153 S6			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
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Attn: Kathleen Cheyne

Page: 7

Project ID: ALAMEDA  
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.15	70781.16		
Client Sample I.D.			A-OIS-17-3	A-OIS-17-5		
Date Sampled			09/26/2013	09/26/2013		
Date Prepared			09/26/2013	09/26/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/26/2013	09/27/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND		
Benzo(a)pyrene	0.010	0.020	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	ND	ND		
Chrysene	0.010	0.020	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	ND		
Fluoranthene	0.010	0.020	ND	ND		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	ND		
Pyrene	0.010	0.020	ND	ND		
Our Lab I.D.			70781.15	70781.16		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		106	105		



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## ANALYTICAL RESULTS

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Page: 8

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.17			
Client Sample I.D.			A-OIS-18-1.5			
Date Sampled			09/26/2013			
Date Prepared			09/26/2013			
Preparation Method			3550B			
Date Analyzed			09/27/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			2			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.020	0.040	0.240			
Benzo(a)pyrene	0.020	0.040	0.634			
Benzo(b)fluoranthene	0.020	0.040	0.397			
Benzo(k)fluoranthene	0.020	0.040	0.239			
Chrysene	0.020	0.040	0.454			
Dibenzo(a,h)anthracene	0.020	0.040	ND			
Indeno(1,2,3-cd)pyrene	0.020	0.040	0.635			
Acenaphthene	0.020	0.040	ND			
Acenaphthylene	0.020	0.040	0.0223J			
Anthracene	0.020	0.040	ND			
Benzo(g,h,i)perylene	0.020	0.040	0.915			
Fluoranthene	0.020	0.040	0.755			
Fluorene	0.020	0.040	ND			
Naphthalene	0.020	0.040	ND			
Phenanthrene	0.020	0.040	0.213			
Pyrene	0.020	0.040	1.14			
Our Lab I.D.			70781.17			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		92.3			



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Page: 9

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.18	70781.19		
Client Sample I.D.			A-OIS-18-3	A-OIS-18-5		
Date Sampled			09/26/2013	09/26/2013		
Date Prepared			09/26/2013	09/26/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/27/2013	09/27/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	0.0598	ND		
Benzo(a)pyrene	0.010	0.020	0.0799	ND		
Benzo(b)fluoranthene	0.010	0.020	0.0543	ND		
Benzo(k)fluoranthene	0.010	0.020	0.0321	ND		
Chrysene	0.010	0.020	0.0670	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	0.0716	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	0.103	ND		
Fluoranthene	0.010	0.020	0.162	ND		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	0.0122J	ND		
Pyrene	0.010	0.020	0.222	ND		
Our Lab I.D.			70781.18	70781.19		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		106	105		



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Page: 10

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.20			
Client Sample I.D.			A-OIS-20-2			
Date Sampled			09/26/2013			
Date Prepared			09/26/2013			
Preparation Method			3550B			
Date Analyzed			09/27/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			2			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.020	0.040	2.08			
Benzo(a)pyrene	0.020	0.040	3.83			
Benzo(b)fluoranthene	0.020	0.040	2.34			
Benzo(k)fluoranthene	0.020	0.040	1.42			
Chrysene	0.020	0.040	2.35			
Dibenzo(a,h)anthracene	0.020	0.040	ND			
Indeno(1,2,3-cd)pyrene	0.020	0.040	4.20			
Acenaphthene	0.020	0.040	ND			
Acenaphthylene	0.020	0.040	0.0424			
Anthracene	0.020	0.040	0.0410			
Benzo(g,h,i)perylene	0.020	0.040	5.95			
Fluoranthene	0.020	0.040	4.91			
Fluorene	0.020	0.040	0.0228J			
Naphthalene	0.020	0.040	0.0458			
Phenanthrene	0.020	0.040	0.599			
Pyrene	0.020	0.040	6.68			
Our Lab I.D.			70781.20			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		117			



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Page: 11

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.21	70781.22		
Client Sample I.D.			A-OIS-20-3.5	A-OIS-20-5		
Date Sampled			09/26/2013	09/26/2013		
Date Prepared			09/26/2013	09/26/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/27/2013	09/27/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	0.0358	ND		
Benzo(a)pyrene	0.010	0.020	0.0663	ND		
Benzo(b)fluoranthene	0.010	0.020	0.0432	ND		
Benzo(k)fluoranthene	0.010	0.020	0.0251	ND		
Chrysene	0.010	0.020	0.0361	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	0.0627	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	0.0770	ND		
Fluoranthene	0.010	0.020	0.0689	ND		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	ND		
Pyrene	0.010	0.020	0.102	ND		
Our Lab I.D.			70781.21	70781.22		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		107	110		





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## ANALYTICAL RESULTS

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### Site

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Page: 12

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.23			
Client Sample I.D.			A-OIS-21-2			
Date Sampled			09/26/2013			
Date Prepared			09/26/2013			
Preparation Method			3550B			
Date Analyzed			09/27/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			2			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.020	0.040	3.98			
Benzo(a)pyrene	0.020	0.040	6.38			
Benzo(b)fluoranthene	0.020	0.040	4.03			
Benzo(k)fluoranthene	0.020	0.040	2.31			
Chrysene	0.020	0.040	4.86			
Dibenzo(a,h)anthracene	0.020	0.040	ND			
Indeno(1,2,3-cd)pyrene	0.020	0.040	6.02			
Acenaphthene	0.020	0.040	ND			
Acenaphthylene	0.020	0.040	0.0343J			
Anthracene	0.020	0.040	0.185			
Benzo(g,h,i)perylene	0.020	0.040	8.05			
Fluoranthene	0.020	0.040	8.90			
Fluorene	0.020	0.040	0.0523			
Naphthalene	0.020	0.040	0.0772			
Phenanthrene	0.020	0.040	1.87			
Pyrene	0.020	0.040	11.7			
Our Lab I.D.			70781.23			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		115			



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
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 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
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Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 13

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1; Dup or Spiked Sample: 70754.01; LCS: Clean Sand; QC Prepared: 09/26/2013; QC Analyzed: 09/26/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	110	0.0500	0.0500	107	2.76	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0500	98.8	0.0500	0.0500	97.4	1.43	75-125	<20
Naphthalene	0.00	0.500	0.510	103	0.500	0.510	102	<1	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.403	101	0.400	0.398	99.5	1.49	75-125	<20

QC Batch No: 092613IB1; Dup or Spiked Sample: 70754.01; LCS: Clean Sand; QC Prepared: 09/26/2013; QC Analyzed: 09/26/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzo(a)anthracene	0.0500	0.0500	105	0.0500	0.0600	113	7.34	75-125	<20
Benzo(a)pyrene	0.0500	0.0500	94.2	0.0500	0.0500	101	6.97	75-125	<20
Naphthalene	0.500	0.510	101	0.500	0.540	108	6.70	75-125	<20
<b>LCS</b>									
Acenaphthene	0.500	0.520	105	0.500	0.560	112	6.45	75-125	<20
Acenaphthylene	1.00	0.910	91.2	1.00	0.960	96.3	5.44	75-125	<20
Anthracene	0.0500	0.0500	99.6	0.0500	0.0500	106	6.23	75-125	<20
Benzo(b)fluoranthene	0.100	0.100	97.7	0.100	0.100	104	6.25	75-125	<20
Benzo(g,h,i)perylene	0.100	0.100	103	0.100	0.0900	90.5	12.9	75-125	<20
Benzo(k)fluoranthene	0.0500	0.0500	98.6	0.0500	0.0500	108	9.10	75-125	<20
Chrysene	0.0500	0.0500	105	0.0500	0.0600	113	7.34	75-125	<20
Dibenzo(a,h)anthracene	0.100	0.110	106	0.100	0.110	113	6.39	75-125	<20
Fluoranthene	0.100	0.100	102	0.100	0.110	110	7.55	75-125	<20
Fluorene	0.100	0.0900	92.2	0.100	0.100	98.9	7.01	75-125	<20
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	95.6	0.0500	0.0500	91.6	4.27	75-125	<20
Phenanthrene	0.0500	0.0500	103	0.0500	0.0600	110	6.57	75-125	<20
Pyrene	0.0500	0.0500	103	0.0500	0.0500	110	6.57	75-125	<20
<b>Surrogates</b>									
p-Terphenyl-D14	0.400	0.389	97.3	0.400	0.416	104	6.89	75-125	<20



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## QUALITY CONTROL RESULTS

### Ordered By

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Page: 14

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092713IB1; Dup or Spiked Sample: 70781.06; LCS: Clean Sand; QC Prepared: 09/27/2013; QC Analyzed: 09/27/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0520	104	0.0500	0.0498	99.6	4.32	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0459	91.8	0.0500	0.0449	89.8	2.20	75-125	<20
Naphthalene	0.00	0.500	0.505	101	0.500	0.496	99.2	1.80	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.390	97.5	0.400	0.383	95.8	1.74	75-125	<20

QC Batch No: 092713IB1; Dup or Spiked Sample: 70781.06; LCS: Clean Sand; QC Prepared: 09/27/2013; QC Analyzed: 09/27/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0500	107	75-125						
Benzo(a)pyrene	0.0500	0.0500	92.8	75-125						
Naphthalene	0.500	0.515	103	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.550	110	75-125						
Acenaphthylene	1.00	0.970	96.7	75-125						
Anthracene	0.0500	0.0500	105	75-125						
Benzo(b)fluoranthene	0.100	0.100	104	75-125						
Benzo(g,h,i)perylene	0.100	0.110	107	75-125						
Benzo(k)fluoranthene	0.0500	0.0500	108	75-125						
Chrysene	0.0500	0.0500	108	75-125						
Dibenzo(a,h)anthracene	0.100	0.110	112	75-125						
Fluoranthene	0.100	0.110	107	75-125						
Fluorene	0.100	0.100	98.9	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0600	113	75-125						
Phenanthrene	0.0500	0.0500	109	75-125						
Pyrene	0.0500	0.0500	102	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.406	102	75-125						



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 15

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 093013IB1; Dup or Spiked Sample: 70797.01; LCS: Clean Sand; QC Prepared: 09/30/2013; QC Analyzed: 09/30/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	114	0.0500	0.0600	110	3.57	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0500	104	0.0500	0.0500	104	<1	75-125	<20
Naphthalene	0.00	0.500	0.530	106	0.500	0.550	110	3.70	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.391	97.8	0.400	0.396	99.0	1.23	75-125	<20

QC Batch No: 093013IB1; Dup or Spiked Sample: 70797.01; LCS: Clean Sand; QC Prepared: 09/30/2013; QC Analyzed: 09/30/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0600	115	75-125						
Benzo(a)pyrene	0.0500	0.0500	105	75-125						
Naphthalene	0.500	0.560	113	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.580	117	75-125						
Acenaphthylene	1.00	0.980	98.1	75-125						
Anthracene	0.0500	0.0600	111	75-125						
Benzo(b)fluoranthene	0.100	0.110	108	75-125						
Benzo(g,h,i)perylene	0.100	0.110	113	75-125						
Benzo(k)fluoranthene	0.0500	0.0600	116	75-125						
Chrysene	0.0500	0.0600	113	75-125						
Dibenzo(a,h)anthracene	0.100	0.120	116	75-125						
Fluoranthene	0.100	0.110	113	75-125						
Fluorene	0.100	0.110	105	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0600	115	75-125						
Phenanthrene	0.0500	0.0600	115	75-125						
Pyrene	0.0500	0.0600	117	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.402	101	75-125						



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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 13  
Date Received 09/26/2013  
Date Reported 09/27/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70781	09/26/2013	SC/G

**Project ID:** ALAMEDA  
**Project Name:** Alameda MGP  
**Site:** Offsite Investigation  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 20 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



**American Environmental Testing Laboratory Inc.**  
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# CHAIN OF CUSTODY RECORD

No 74429

AETL JOB No. **70781** Page 1 of 1

COMPANY: **So Cal Gas** PROJECT MANAGER: **K. Cheyne**  
 COMPANY ADDRESS: **535 West 5th St., Los Angeles, CA** PHONE: \_\_\_\_\_  
 PROJECT NAME: **Former Alameda H61P** PROJECT #: \_\_\_\_\_  
 SITE NAME: **Off site Investigation** PO #: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS
							1	2	3	
A-OIS-13-15	70781-01	9/26/13	0750	SOIL	4oz/1	—	X			* Added 9/27 1 DAY TAT
A-OIS-13-3	70781-02		1008				X			} RUN
A-OIS-13-30	70781-03		1005				X			
A-OIS-13-5	70781-04		1011				X			
A-OIS-14-15	70781-05		0830				*			} HOLD Run (H)
A-OIS-14-3	70781-06		0835				*			
A-OIS-14-5	70781-07		0840				*			
A-OIS-15-15	70781-08		0909				X			} RUN
A-OIS-15-3	70781-09		0918				X			
A-OIS-15-5	70781-10		0920				X			
A-OIS-16-15	70781-11		0930				X			} HOLD
A-OIS-16-3	70781-12		0935				X			
A-OIS-16-5	70781-13		0940				X			
A-OIS-17-15	70781-14		1210				X			} 3 RUN
A-OIS-17-3	70781-15		1214				X			

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: **15** PROPERLY COOLED Y/N/NA: **Y**  
 JSTODY SEALS Y/N/NA: \_\_\_\_\_ SAMPLES INTACT Y/N/NA: \_\_\_\_\_  
 RECEIVED IN GOOD COND. Y/N: **Y** SAMPLES ACCEPTED Y/N: **Y**

TURN AROUND TIME:  SAME DAY  NEXT DAY  2 DAYS  3 DAYS

NORMAL  RUSH

RELINQUISHED BY: 1. Signature: \_\_\_\_\_ Printed Name: **F. Res...** Date: **9/26/13** Time: **1445**  
 2. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

RECEIVED BY: 1. Signature: \_\_\_\_\_ Printed Name: **SA...** Date: **9.26.13** Time: **1600**  
 2. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Signature: \_\_\_\_\_ Printed Name: **Sean Cloud** Date: **9.26.13** Time: **1600**

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator





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**CHAIN OF CUSTODY RECEIPT**  
 No 74430

AETL JOB No. **70781** Page **2** of **2**

COMPANY **So Cal Gas** PROJECT MANAGER **K. Choye**  
 COMPANY ADDRESS **555 W. 5th St. L.A. CA** PHONE \_\_\_\_\_ FAX \_\_\_\_\_  
 PROJECT NAME **Alameda MGP offsite** PROJECT # \_\_\_\_\_  
 SITE NAME **Incorporation** PO # \_\_\_\_\_  
 ADDRESS \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS
A-OIS-17-5	70781-16	9/26/13	1216	SOIL	4oz/1	---				
A-OIS-18-1	70781-17		1245							ERUN
A-OIS-18-3	70781-18		1255							ERUN
A-OIS-18-5	70781-19		1200							ERUN
A-OIS-20-2	70781-20		1345							ERUN
A-OIS-20-3	70781-21		1350							ERUN
A-OIS-20-5	70781-22		1355							ERUN
A-OIS-21-2	70781-23		1430							ERUN

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS **8** PROPERLY COOLED Y/N/NA  
 CUSTODY SEALS Y/N/NA SAMPLES INTACT Y/N/NA  
 RECEIVED IN GOOD COND. Y/N SAMPLES ACCEPTED Y/N

TURN AROUND TIME  
 NORMAL  RUSH  SAME DAY  2 DAYS  
 NEXT DAY  3 DAYS

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: <i>[Signature]</i> Printed Name: <b>F. Mason</b> Date: <b>9/26/13</b> Time: <b>1445</b>	Signature: <i>[Signature]</i> Printed Name: <b>[Name]</b> Date: <b>9/26/13</b> Time: <b>1445</b>	Signature: <i>[Signature]</i> Printed Name: <b>[Name]</b> Date: <b>9/26/13</b> Time: <b>1600</b>
RECEIVED BY:	RECEIVED BY:	RECEIVED BY:
Signature: <i>[Signature]</i> Printed Name: <b>[Name]</b> Date: <b>9/26/13</b> Time: <b>1445</b>	Signature: <i>[Signature]</i> Printed Name: <b>[Name]</b> Date: <b>9/26/13</b> Time: <b>1445</b>	Signature: <i>[Signature]</i> Printed Name: <b>[Name]</b> Date: <b>9/26/13</b> Time: <b>1600</b>

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

## JIM LIN

---

**From:** Mascioni, Fabrizio [Fabrizio.Mascioni@parsons.com]  
**Sent:** Friday, September 27, 2013 8:05 AM  
**To:** 'jiml@aetlab.com'  
**Cc:** 'kcheyne@semprautilities.com'; Craig, Shala  
**Subject:** Re: Pick up tomorrow

Jim, please analyze samples A-OIS-14-1.5, -3, and -5.  
Thank you!

---

**From:** Mascioni, Fabrizio  
**Sent:** Thursday, September 26, 2013 06:39 PM  
**To:** JIM LIN <jiml@aetlab.com>  
**Subject:** Pick up tomorrow

Jim can you schedule another pick up tomorrow in Alameda at 2:00PM  
Thank you!

Fabrizio Mascioni, P.G.  
Principal Geologist  
PARSONS  
100 West Walnut Street  
Pasadena, CA 91124  
Phone: (626) 440-3226  
Cellphone: (310) 569-3677  
Fax: (626) 440-2993



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/26/2013  
Date Reported 09/27/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70781	09/26/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 23 samples with the following specification on 09/26/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70781.01	A-OIS-13-1.5	09/26/2013	Soil	1
70781.02	A-OIS-13-3	09/26/2013	Soil	1
70781.03	A-OIS-13-3D	09/26/2013	Soil	1
70781.04	A-OIS-13-5	09/26/2013	Soil	1
70781.05	A-OIS-14-1.5	09/26/2013	Soil	1
70781.06	A-OIS-14-3	09/26/2013	Soil	1
70781.07	A-OIS-14-5	09/26/2013	Soil	1
70781.08	A-OIS-15-1.5	09/26/2013	Soil	1
70781.09	A-OIS-15-3	09/26/2013	Soil	1
70781.10	A-OIS-15-5	09/26/2013	Soil	1
70781.14	A-OIS-17-1.5	09/26/2013	Soil	1
70781.15	A-OIS-17-3	09/26/2013	Soil	1
70781.16	A-OIS-17-5	09/26/2013	Soil	1
70781.17	A-OIS-18-1.5	09/26/2013	Soil	1
70781.18	A-OIS-18-3	09/26/2013	Soil	1
70781.19	A-OIS-18-5	09/26/2013	Soil	1
70781.20	A-OIS-20-2	09/26/2013	Soil	1
70781.21	A-OIS-20-3.5	09/26/2013	Soil	1
70781.22	A-OIS-20-5	09/26/2013	Soil	1
70781.23	A-OIS-21-2	09/26/2013	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	09/27/2013	2	Rush	mg/Kg
70781.11	A-OIS-16-1.5	09/26/2013	Soil	1
70781.12	A-OIS-16-3	09/26/2013	Soil	1
70781.13	A-OIS-16-5	09/26/2013	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units

Continued



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Page: 1 B

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/26/2013  
Date Reported 09/27/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70781	09/26/2013	SC/G

## CERTIFICATE OF ANALYSIS

### CASE NARRATIVE

70781.13	A-OIS-16-5	09/26/2013	Soil		1
Method ^ Submethod	Req Date	Priority	TAT	Units	
ARCHIVE	09/27/2013	2	Rush	--	

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			Method Blank	70781.01	70781.02	70781.03	70781.04
Client Sample I.D.				A-OIS-13-1.5	A-OIS-13-3	A-OIS-13-3D	A-OIS-13-5
Date Sampled				09/26/2013	09/26/2013	09/26/2013	09/26/2013
Date Prepared			09/26/2013	09/26/2013	09/26/2013	09/26/2013	09/26/2013
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			09/26/2013	09/26/2013	09/26/2013	09/26/2013	09/26/2013
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Benzo(a)anthracene	0.010	0.020	ND	0.0122J	0.0239	ND	ND
Benzo(a)pyrene	0.010	0.020	ND	0.0244	0.0517	ND	ND
Benzo(b)fluoranthene	0.010	0.020	ND	0.0159J	0.0318	ND	ND
Benzo(k)fluoranthene	0.010	0.020	ND	ND	0.0188J	ND	ND
Chrysene	0.010	0.020	ND	0.0157J	0.0383	ND	ND
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.0212	0.0448	ND	ND
Acenaphthene	0.010	0.020	ND	ND	ND	ND	ND
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	ND
Anthracene	0.010	0.020	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.010	0.020	ND	0.0322	0.0583	ND	ND
Fluoranthene	0.010	0.020	ND	0.0299	0.0651	ND	ND
Fluorene	0.010	0.020	ND	ND	ND	ND	ND
Naphthalene	0.010	0.020	ND	ND	ND	ND	ND
Phenanthrene	0.010	0.020	ND	ND	0.0154J	ND	ND
Pyrene	0.010	0.020	ND	0.0495	0.102	0.0149J	ND
Our Lab I.D.			Method Blank	70781.01	70781.02	70781.03	70781.04
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
p-Terphenyl-D14	75-125		115	108	107	107	105



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092713IB1

Our Lab I.D.			Method Blank	70781.05	70781.06	70781.07	
Client Sample I.D.				A-OIS-14-1.5	A-OIS-14-3	A-OIS-14-5	
Date Sampled				09/26/2013	09/26/2013	09/26/2013	
Date Prepared			09/27/2013	09/27/2013	09/27/2013	09/27/2013	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			09/27/2013	09/27/2013	09/27/2013	09/27/2013	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	
Benzo(a)pyrene	0.010	0.020	ND	0.175	ND	ND	
Benzo(b)fluoranthene	0.010	0.020	ND	0.0990	ND	ND	
Benzo(k)fluoranthene	0.010	0.020	ND	0.0617	ND	ND	
Chrysene	0.010	0.020	ND	ND	ND	ND	
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.161	ND	ND	
Acenaphthene	0.010	0.020	ND	ND	ND	ND	
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	
Anthracene	0.010	0.020	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.010	0.020	ND	0.135	ND	ND	
Fluoranthene	0.010	0.020	ND	0.228	ND	ND	
Fluorene	0.010	0.020	ND	ND	ND	ND	
Naphthalene	0.010	0.020	ND	0.0106J	ND	ND	
Phenanthrene	0.010	0.020	ND	0.0977	ND	ND	
Pyrene	0.010	0.020	ND	0.352	ND	ND	
Our Lab I.D.			Method Blank	70781.05	70781.06	70781.07	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125		108	79.0	105	101	



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA  
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.08	70781.09	70781.10		
Client Sample I.D.			A-OIS-15-1.5	A-OIS-15-3	A-OIS-15-5		
Date Sampled			09/26/2013	09/26/2013	09/26/2013		
Date Prepared			09/26/2013	09/26/2013	09/26/2013		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			09/26/2013	09/26/2013	09/26/2013		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Benzo(a)anthracene	0.010	0.020	0.845	ND	ND		
Benzo(a)pyrene	0.010	0.020	1.72	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	1.08	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	0.622	ND	ND		
Chrysene	0.010	0.020	0.987	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	1.88	ND	ND		
Acenaphthene	0.010	0.020	ND	ND	ND		
Acenaphthylene	0.010	0.020	0.182	ND	ND		
Anthracene	0.010	0.020	0.0387	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	2.89	ND	ND		
Fluoranthene	0.010	0.020	1.62	ND	ND		
Fluorene	0.010	0.020	0.0856	ND	ND		
Naphthalene	0.010	0.020	0.0964	ND	ND		
Phenanthrene	0.010	0.020	0.432	ND	ND		
Pyrene	0.010	0.020	2.23	ND	ND		
Our Lab I.D.			70781.08	70781.09	70781.10		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
p-Terphenyl-D14	75-125		124	105	104		



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 5

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.14			
Client Sample I.D.			A-OIS-17-1.5			
Date Sampled			09/26/2013			
Date Prepared			09/26/2013			
Preparation Method			3550B			
Date Analyzed			09/27/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			5			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.050	0.100	27.6			
Benzo(a)pyrene	0.050	0.100	45.7			
Benzo(b)fluoranthene	0.050	0.100	32.6			
Benzo(k)fluoranthene	0.050	0.100	18.7			
Chrysene	0.050	0.100	31.7			
Dibenzo(a,h)anthracene	0.050	0.100	ND			
Indeno(1,2,3-cd)pyrene	0.050	0.100	51.5			
Acenaphthene	0.050	0.100	ND			
Acenaphthylene	0.050	0.100	0.189			
Anthracene	0.050	0.100	0.341			
Benzo(g,h,i)perylene	0.050	0.100	71.2			
Fluoranthene	0.050	0.100	64.9			
Fluorene	0.050	0.100	0.183			
Naphthalene	0.050	0.100	0.506			
Phenanthrene	0.050	0.100	7.03			
Pyrene	0.050	0.100	85.8			
Our Lab I.D.			70781.14			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		1153 S6			





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## ANALYTICAL RESULTS

### Ordered By

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 Los Angeles, CA 90013-1011

### Site

Offsite Investigation  
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Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 6

Project ID: ALAMEDA  
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.15	70781.16			
Client Sample I.D.			A-OIS-17-3	A-OIS-17-5			
Date Sampled			09/26/2013	09/26/2013			
Date Prepared			09/26/2013	09/26/2013			
Preparation Method			3550B	3550B			
Date Analyzed			09/26/2013	09/27/2013			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	MDL	PQL	Results	Results			
Benzo(a)anthracene	0.010	0.020	ND	ND			
Benzo(a)pyrene	0.010	0.020	ND	ND			
Benzo(b)fluoranthene	0.010	0.020	ND	ND			
Benzo(k)fluoranthene	0.010	0.020	ND	ND			
Chrysene	0.010	0.020	ND	ND			
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND			
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND			
Acenaphthene	0.010	0.020	ND	ND			
Acenaphthylene	0.010	0.020	ND	ND			
Anthracene	0.010	0.020	ND	ND			
Benzo(g,h,i)perylene	0.010	0.020	ND	ND			
Fluoranthene	0.010	0.020	ND	ND			
Fluorene	0.010	0.020	ND	ND			
Naphthalene	0.010	0.020	ND	ND			
Phenanthrene	0.010	0.020	ND	ND			
Pyrene	0.010	0.020	ND	ND			
Our Lab I.D.			70781.15	70781.16			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
p-Terphenyl-D14	75-125		106	105			



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Attn: Kathleen Cheyne

Page: 7

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.17			
Client Sample I.D.			A-OIS-18-1.5			
Date Sampled			09/26/2013			
Date Prepared			09/26/2013			
Preparation Method			3550B			
Date Analyzed			09/27/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			2			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.020	0.040	0.240			
Benzo(a)pyrene	0.020	0.040	0.634			
Benzo(b)fluoranthene	0.020	0.040	0.397			
Benzo(k)fluoranthene	0.020	0.040	0.239			
Chrysene	0.020	0.040	0.454			
Dibenzo(a,h)anthracene	0.020	0.040	ND			
Indeno(1,2,3-cd)pyrene	0.020	0.040	0.635			
Acenaphthene	0.020	0.040	ND			
Acenaphthylene	0.020	0.040	0.0223J			
Anthracene	0.020	0.040	ND			
Benzo(g,h,i)perylene	0.020	0.040	0.915			
Fluoranthene	0.020	0.040	0.755			
Fluorene	0.020	0.040	ND			
Naphthalene	0.020	0.040	ND			
Phenanthrene	0.020	0.040	0.213			
Pyrene	0.020	0.040	1.14			
Our Lab I.D.			70781.17			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		92.3			



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Page: 8

Project ID: ALAMEDA  
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.18	70781.19		
Client Sample I.D.			A-OIS-18-3	A-OIS-18-5		
Date Sampled			09/26/2013	09/26/2013		
Date Prepared			09/26/2013	09/26/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/27/2013	09/27/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	0.0598	ND		
Benzo(a)pyrene	0.010	0.020	0.0799	ND		
Benzo(b)fluoranthene	0.010	0.020	0.0543	ND		
Benzo(k)fluoranthene	0.010	0.020	0.0321	ND		
Chrysene	0.010	0.020	0.0670	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	0.0716	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	0.103	ND		
Fluoranthene	0.010	0.020	0.162	ND		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	0.0122J	ND		
Pyrene	0.010	0.020	0.222	ND		
Our Lab I.D.			70781.18	70781.19		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		106	105		



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## ANALYTICAL RESULTS

### Ordered By

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### Site

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Page: 9

Project ID: ALAMEDA  
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.20			
Client Sample I.D.			A-OIS-20-2			
Date Sampled			09/26/2013			
Date Prepared			09/26/2013			
Preparation Method			3550B			
Date Analyzed			09/27/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			2			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.020	0.040	2.08			
Benzo(a)pyrene	0.020	0.040	3.83			
Benzo(b)fluoranthene	0.020	0.040	2.34			
Benzo(k)fluoranthene	0.020	0.040	1.42			
Chrysene	0.020	0.040	2.35			
Dibenzo(a,h)anthracene	0.020	0.040	ND			
Indeno(1,2,3-cd)pyrene	0.020	0.040	4.20			
Acenaphthene	0.020	0.040	ND			
Acenaphthylene	0.020	0.040	0.0424			
Anthracene	0.020	0.040	0.0410			
Benzo(g,h,i)perylene	0.020	0.040	5.95			
Fluoranthene	0.020	0.040	4.91			
Fluorene	0.020	0.040	0.0228J			
Naphthalene	0.020	0.040	0.0458			
Phenanthrene	0.020	0.040	0.599			
Pyrene	0.020	0.040	6.68			
Our Lab I.D.			70781.20			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		117			



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## ANALYTICAL RESULTS

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### Site

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Page: 10

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.21	70781.22		
Client Sample I.D.			A-OIS-20-3.5	A-OIS-20-5		
Date Sampled			09/26/2013	09/26/2013		
Date Prepared			09/26/2013	09/26/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/27/2013	09/27/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	0.0358	ND		
Benzo(a)pyrene	0.010	0.020	0.0663	ND		
Benzo(b)fluoranthene	0.010	0.020	0.0432	ND		
Benzo(k)fluoranthene	0.010	0.020	0.0251	ND		
Chrysene	0.010	0.020	0.0361	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	0.0627	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	0.0770	ND		
Fluoranthene	0.010	0.020	0.0689	ND		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	ND		
Pyrene	0.010	0.020	0.102	ND		
Our Lab I.D.			70781.21	70781.22		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		107	110		



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## ANALYTICAL RESULTS

### Ordered By

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### Site

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Page: 11

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			70781.23			
Client Sample I.D.			A-OIS-21-2			
Date Sampled			09/26/2013			
Date Prepared			09/26/2013			
Preparation Method			3550B			
Date Analyzed			09/27/2013			
Matrix			Soil			
Units			mg/Kg			
Dilution Factor			2			
Analytes	MDL	PQL	Results			
Benzo(a)anthracene	0.020	0.040	3.98			
Benzo(a)pyrene	0.020	0.040	6.38			
Benzo(b)fluoranthene	0.020	0.040	4.03			
Benzo(k)fluoranthene	0.020	0.040	2.31			
Chrysene	0.020	0.040	4.86			
Dibenzo(a,h)anthracene	0.020	0.040	ND			
Indeno(1,2,3-cd)pyrene	0.020	0.040	6.02			
Acenaphthene	0.020	0.040	ND			
Acenaphthylene	0.020	0.040	0.0343J			
Anthracene	0.020	0.040	0.185			
Benzo(g,h,i)perylene	0.020	0.040	8.05			
Fluoranthene	0.020	0.040	8.90			
Fluorene	0.020	0.040	0.0523			
Naphthalene	0.020	0.040	0.0772			
Phenanthrene	0.020	0.040	1.87			
Pyrene	0.020	0.040	11.7			
Our Lab I.D.			70781.23			
Surrogates	%Rec.Limit		% Rec.			
p-Terphenyl-D14	75-125		115			



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## QUALITY CONTROL RESULTS

### Ordered By

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### Site

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Page: 12

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1; Dup or Spiked Sample: 70754.01; LCS: Clean Sand; QC Prepared: 09/26/2013; QC Analyzed: 09/26/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	110	0.0500	0.0500	107	2.76	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0500	98.8	0.0500	0.0500	97.4	1.43	75-125	<20
Naphthalene	0.00	0.500	0.510	103	0.500	0.510	102	<1	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.403	101	0.400	0.398	99.5	1.49	75-125	<20

QC Batch No: 092613IB1; Dup or Spiked Sample: 70754.01; LCS: Clean Sand; QC Prepared: 09/26/2013; QC Analyzed: 09/26/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzo(a)anthracene	0.0500	0.0500	105	0.0500	0.0600	113	7.34	75-125	<20
Benzo(a)pyrene	0.0500	0.0500	94.2	0.0500	0.0500	101	6.97	75-125	<20
Naphthalene	0.500	0.510	101	0.500	0.540	108	6.70	75-125	<20
<b>LCS</b>									
Acenaphthene	0.500	0.520	105	0.500	0.560	112	6.45	75-125	<20
Acenaphthylene	1.00	0.910	91.2	1.00	0.960	96.3	5.44	75-125	<20
Anthracene	0.0500	0.0500	99.6	0.0500	0.0500	106	6.23	75-125	<20
Benzo(b)fluoranthene	0.100	0.100	97.7	0.100	0.100	104	6.25	75-125	<20
Benzo(g,h,i)perylene	0.100	0.100	103	0.100	0.0900	90.5	12.9	75-125	<20
Benzo(k)fluoranthene	0.0500	0.0500	98.6	0.0500	0.0500	108	9.10	75-125	<20
Chrysene	0.0500	0.0500	105	0.0500	0.0600	113	7.34	75-125	<20
Dibenzo(a,h)anthracene	0.100	0.110	106	0.100	0.110	113	6.39	75-125	<20
Fluoranthene	0.100	0.100	102	0.100	0.110	110	7.55	75-125	<20
Fluorene	0.100	0.0900	92.2	0.100	0.100	98.9	7.01	75-125	<20
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	95.6	0.0500	0.0500	91.6	4.27	75-125	<20
Phenanthrene	0.0500	0.0500	103	0.0500	0.0600	110	6.57	75-125	<20
Pyrene	0.0500	0.0500	103	0.0500	0.0500	110	6.57	75-125	<20
<b>Surrogates</b>									
p-Terphenyl-D14	0.400	0.389	97.3	0.400	0.416	104	6.89	75-125	<20



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## QUALITY CONTROL RESULTS

### Ordered By

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### Site

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Page: 13

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70781	09/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092713IB1; Dup or Spiked Sample: 70781.06; LCS: Clean Sand; QC Prepared: 09/27/2013; QC Analyzed: 09/27/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0520	104	0.0500	0.0498	99.6	4.32	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0459	91.8	0.0500	0.0449	89.8	2.20	75-125	<20
Naphthalene	0.00	0.500	0.505	101	0.500	0.496	99.2	1.80	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.390	97.5	0.400	0.383	95.8	1.74	75-125	<20

QC Batch No: 092713IB1; Dup or Spiked Sample: 70781.06; LCS: Clean Sand; QC Prepared: 09/27/2013; QC Analyzed: 09/27/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
Benzo(a)anthracene	0.0500	0.0500	107	75-125
Benzo(a)pyrene	0.0500	0.0500	92.8	75-125
Naphthalene	0.500	0.515	103	75-125
<b>LCS</b>				
Acenaphthene	0.500	0.550	110	75-125
Acenaphthylene	1.00	0.970	96.7	75-125
Anthracene	0.0500	0.0500	105	75-125
Benzo(b)fluoranthene	0.100	0.100	104	75-125
Benzo(g,h,i)perylene	0.100	0.110	107	75-125
Benzo(k)fluoranthene	0.0500	0.0500	108	75-125
Chrysene	0.0500	0.0500	108	75-125
Dibenzo(a,h)anthracene	0.100	0.110	112	75-125
Fluoranthene	0.100	0.110	107	75-125
Fluorene	0.100	0.100	98.9	75-125
Indeno(1,2,3-cd)pyrene	0.0500	0.0600	113	75-125
Phenanthrene	0.0500	0.0500	109	75-125
Pyrene	0.0500	0.0500	102	75-125
<b>Surrogates</b>				
p-Terphenyl-D14	0.400	0.406	102	75-125





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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 3  
Date Received 09/16/2013  
Date Reported 09/17/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70646	09/16/2013	SC/G

Project ID: ALAMEDA  
Project Name: Alameda MGP  
Site: Alameda MGP  
732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 3 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/16/2013  
Date Reported 09/17/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70646	09/16/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 3 samples with the following specification on 09/16/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70646.01	A-OSI-5-5.0	09/16/2013	Soil	2
70646.02	A-OSI-5-6.0	09/16/2013	Soil	2
70646.03	A-OSI-5-7.0	09/16/2013	Soil	2

Method ^ Submethod	Req Date	Priority	TAT	Units
(8310)	09/17/2013	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70646	09/16/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091613IB1

Our Lab I.D.			Method Blank	70646.01	70646.02	70646.03	
Client Sample I.D.				A-OSI-5-5.0	A-OSI-5-6.0	A-OSI-5-7.0	
Date Sampled				09/16/2013	09/16/2013	09/16/2013	
Date Prepared			09/16/2013	09/16/2013	09/16/2013	09/16/2013	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			09/16/2013	09/16/2013	09/16/2013	09/16/2013	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	
Benzo(a)anthracene	0.010	0.020	ND	ND	ND	ND	
Benzo(a)pyrene	0.010	0.020	ND	0.0152J	ND	ND	
Benzo(b)fluoranthene	0.010	0.020	ND	ND	ND	ND	
Benzo(k)fluoranthene	0.010	0.020	ND	ND	ND	ND	
Chrysene	0.010	0.020	ND	ND	ND	ND	
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	0.0101J	ND	ND	
Acenaphthene	0.010	0.020	ND	ND	ND	ND	
Acenaphthylene	0.010	0.020	ND	ND	ND	ND	
Anthracene	0.010	0.020	ND	ND	ND	ND	
Benzo(g,h,i)perylene	0.010	0.020	ND	0.0126J	ND	ND	
Fluoranthene	0.010	0.020	ND	0.0166J	ND	ND	
Fluorene	0.010	0.020	ND	ND	ND	ND	
Naphthalene	0.010	0.020	ND	ND	ND	ND	
Phenanthrene	0.010	0.020	ND	ND	ND	ND	
Pyrene	0.010	0.020	ND	0.0238	ND	ND	
Our Lab I.D.			Method Blank	70646.01	70646.02	70646.03	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
p-Terphenyl-D14	75-125		98.3	102	101	102	



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Alameda MGP  
 732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70646	09/16/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 091613IB1; Dup or Spiked Sample: 70646.03; LCS: Clean Sand; QC Prepared: 09/16/2013; QC Analyzed: 09/16/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	123	0.0500	0.0600	124	<1	75-125	<20
Benzo(a)pyrene	0.00200	0.0500	0.0600	110	0.0500	0.0600	110	<1	75-125	<20
Naphthalene	0.00300	0.500	0.570	113	0.500	0.570	114	<1	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.400	100	0.400	0.400	100	<1	75-125	<20

QC Batch No: 091613IB1; Dup or Spiked Sample: 70646.03; LCS: Clean Sand; QC Prepared: 09/16/2013; QC Analyzed: 09/16/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0600	113	75-125						
Benzo(a)pyrene	0.0500	0.0500	107	75-125						
Naphthalene	0.500	0.550	109	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.580	116	75-125						
Acenaphthylene	1.00	1.01	101	75-125						
Anthracene	0.0500	0.0600	113	75-125						
Benzo(b)fluoranthene	0.100	0.110	112	75-125						
Benzo(g,h,i)perylene	0.100	0.120	120	75-125						
Benzo(k)fluoranthene	0.0500	0.0600	117	75-125						
Chrysene	0.0500	0.0600	119	75-125						
Dibenzo(a,h)anthracene	0.100	0.120	120	75-125						
Fluoranthene	0.100	0.120	116	75-125						
Fluorene	0.100	0.110	106	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	103	75-125						
Phenanthrene	0.0500	0.0600	115	75-125						
Pyrene	0.0500	0.0600	115	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.404	101	75-125						



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### Data Qualifiers and Descriptors

#### *Data Qualifier:*

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- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### *Definition:*

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.





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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---

**Attachment H**

**Data Validation Report**

# Laboratory Data Validation Report

99 soil samples were collected between September 12 and December 12, 2013 from the area of interest located off-site of the former Alameda MGP, at 732 S. Alameda Street, Los Angeles, California. Samples were submitted to American Environmental Testing Laboratories (AETL), Inc. in Burbank, California. Samples were analyzed for Polynuclear Aromatic Hydrocarbons (PAHs) by SW-846 Method 8310.

Ten percent of these results (10 soil samples) were subjected to Level II data validation. The following AETL reports were selected for data validation **70647, 70681, 70721, 70781, 70787, 70819, 70830, 71442, and 71867**. The validation process included review of ten percent of the samples for the following data as provided by the laboratory:

- Holding Times,
- Method Blanks,
- System Monitoring Compounds,
- Matrix Spike/Matrix Spike Duplicate Samples
- Laboratory Control/Laboratory Control Duplicate Samples,
- Field Duplicate Pairs, and
- Case Narrative: if necessary.

## 1.0 HOLDING TIMES

Holding times were met for all project samples reviewed in this 10 percent sampling with the exception of PAH analysis of A-OSI-32-1.5. Sample results reported for this analysis will be qualified as estimates (“J” detects, “UJ” non-detects) and may be biased low. This sample originally submitted to the laboratory as a hold. Request for analysis was made after holding time had expired. Samples were properly preserved.

## 2.0 METHOD BLANKS

Target compounds were not detected in any method blanks associated with project samples.

## 3.0 SYSTEM MONITORING COMPOUNDS

Surrogate recoveries were within in-house generated acceptance limits for all designated analyses and associated QC samples within the 10 percent sampling with the exception of high surrogate recoveries reported for P1-S-15 (435%) and A-OSI-29-1.5 (181%). Detected results reported for these samples will be qualified as estimates (“J” flag) which may be biased high.

## 4.0 MATRIX SPIKE (MS)/MATRIX SPIKE DUPLICATE (MSD) SAMPLES

MS/MSD samples are project samples, or samples of a matrix similar to project samples, that are spiked with target PAH compounds to assess matrix effects on target compound recoveries. MS/MSD samples were spiked with benzo(a)anthracene, benzo(a)pyrene, and naphthalene only.

For the 10 percent data sampling reviewed, MS/MSD recoveries and relative percent differences (RPDs) between recoveries demonstrated acceptable accuracy and precision with the following exception. MSD recovery (16.8%) of benzo(a)anthracene was low and the corresponding RPD between MS/MSD recoveries was high (145.7%). MS (-41.9%) and MSD (-1.2%) recoveries of benzo(a)pyrene were low. Benzo(a)anthracene and benzo(a)pyrene results for the parent sample, PS-S2-2.0A, will be qualified as estimates (“J” flag).

## **5.0 LABORATORY CONTROL STANDARDS (LCS/LCSD)**

A LCS is a clean matrix spiked with all target compounds to assess recoveries without matrix interferences. A LCS was analyzed with each analytical batch demonstrating acceptable method accuracy. LCS/LCSD pairs, when analyzed, demonstrated acceptable method precision and accuracy.

## **6.0 FIELD DUPLICATE SAMPLES**

One field duplicate sample, A-OIS-22-1.5D, was included in this 10 percent review of the data. Field duplicate pair results demonstrated analytical precision for target compounds with the exception of benzo(a)anthracene and chrysene for A-OIS-22-1.5 and A-OIS-22-1.5D which exhibited RPDs in excess of 40% resulting in qualification of these benzo(a)anthracene and chrysene results as estimates (“J” flag).

## **7.0 CASE NARRATIVES: COMMENTS ON SPECIAL ISSUES**

Data can be used as reported with qualifications added (as discussed in text above).

Samples reviewed in this 10 percent sampling of 2013 PAH data include: P1-S-5, P1-S-15, P2-B4-3, PS-S2-2.0A, A-OIS-18-1.5, A-OIS-22-1.5D, A-OIS-25-5, A-OSI-29-1.5, A-OSI-32-1.5, and A-OIS-11-5.

**Attachment I**

**Import Soil Laboratory Reports and Weigh Tickets**

Former Alameda MGP Site  
Import soil for backfilling

<b>Date</b>	<b>Number of loads</b>	<b>Total weight Ton</b>	<b>Soil Source</b>
9/25/2013	1	12.61	Vulcan
9/25/2013	1	12.97	Vulcan
9/26/2013	1	12.74	Vulcan
9/26/2013	1	12.49	Vulcan
9/26/2013	1	12.56	Vulcan
9/26/2013	1	12.60	Vulcan
9/26/2013	1	10.99	Vulcan
11/26/2013	7	124.25	North Hollywood
11/27/2013	5	86.30	North Hollywood
12/2/2013	5	84.35	North Hollywood
12/3/2013	1	17.67	North Hollywood
12/9/2013	2	35.34	North Hollywood
12/10/2013	2	35.34	North Hollywood
12/12/2013	2	35.34	North Hollywood
12/13/2013	2	35.34	North Hollywood
12/16/2013	2	35.34	North Hollywood
<b>Total</b>	<b>35</b>	<b>576.23</b>	

## Natural Sand and Gravel

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name:</b> Natural Sand and Gravel		<b>Formula:</b> Not applicable
<b>Synonyms/Common Names:</b> Construction Aggregate		
<b>Manufacturer/Contact Info:</b> CalMat Co., d/b/a/ Vulcan Materials, Western Division Safety, Health and Environmental Department 3200 San Fernando Road Los Angeles, CA 90065-1415		<b>General Phone Number:</b> 323.258.2777 (8-5 PST, M-F)
		<b>Emergency Phone Number:</b> 1.866.401.5424 (3E Company, 24 hours/day, 7 days/week)

### SECTION 2. COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Components	CAS No.	% by Weight
Natural Sand and Gravel*	None	100
*Composition varies naturally-typically contains some quartz (crystalline silica)	14808-60-7	>1

### SECTION 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

#### WARNING

Dust may irritate the eyes, skin and respiratory tract. Avoid breathing excessive dust. Breathing silica-containing dust for prolonged periods in the workplace can cause lung damage and a lung disease called silicosis. Several scientific organizations have classified crystalline silica as causing lung cancer in humans. Silicosis or lung cancer can result in permanent injury or death.

#### POTENTIAL HEALTH EFFECTS

##### Primary Routes of Exposure:

Inhalation and contact with the eyes and skin.

##### Eye Contact:

Dust particles can scratch the eye causing tearing, redness, a stinging or burning feeling, or swelling of the eyes with blurred vision.

##### Skin Contact:

Dust particles can scratch and irritate the skin with redness, an itching or burning feeling, swelling of the skin, and/or rash.

##### Skin Absorption:

Not expected to be a significant exposure route.

##### Inhalation:

Dusts may irritate the nose, throat and respiratory tract by mechanical abrasion. Coughing sneezing and shortness of breath may occur.

##### Ingestion:

Expected to be practically non-toxic. Ingestion of large amounts may cause gastrointestinal irritation including nausea, vomiting diarrhea and blockage.

##### Effects Following Prolonged or Repeated Exposure:

Exposure to high levels of respirable crystalline silica is associated with silicosis, lung cancer, and autoimmune disorders. For additional information, see Section 11.

##### Carcinogenicity:

Crystalline silica, a component in this product, has been listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), and/or the Occupational Safety and Health Administration (OSHA). For additional information, see Section 11.

**POTENTIAL HEALTH EFFECTS****Signs and Symptoms of Exposure:**

Symptoms of silicosis may include (but are not limited) to shortness of breath, difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure.

**Medical Conditions Aggravated by Exposure:**

Pre-existing medical conditions that may be aggravated by exposure include disorders of the eye, skin and lung (including asthma and other breathing disorders). If addicted to tobacco, smoking will impair the ability of the lungs to clear themselves of dust.

**SECTION 4. FIRST AID MEASURES****Eyes:**

Immediately flush eye(s) with plenty of clean water for at least 15 minutes, while holding the eyelid(s) open. Occasionally lift the eyelid(s) to ensure thorough rinsing. Beyond flushing, do not attempt to remove material from the eye(s). Contact a physician if irritation persists or later develops.

**Skin:**

Wash affected areas thoroughly with mild soap and fresh water. Contact a physician if irritation persists or later develops.

**Inhalation:**

Remove to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or if breathing is difficult.

**Ingestion:**

If person is conscious, do not induce vomiting. Give large quantity of water and get medical attention. Never attempt to make an unconscious person drink.

**Notes to Physician:**

Not all individuals with silicosis will exhibit symptoms of the disease. However, silicosis can be progressive, and symptoms can appear at any time, even years after exposures have ceased. Persons with silicosis have an increased risk of pulmonary tuberculosis infection.

For emergencies, contact 3E Company at 1-866-401-5424 (24 hours/day, 7 days/week).

**SECTION 5. FIREFIGHTING MEASURES****Flash Point (Method Used):**

Not applicable

**Flammable Limits:**

LEL: Not applicable

UEL: Not applicable

**Autoignition Temperature:**

Not applicable

**Extinguishing Media:**

The presence of this material in a fire does not hinder the use of any standard extinguishing medium. Use extinguishing medium for surrounding fire.

**Special Firefighting Procedures:**

None

**Unusual Fire and Explosion Hazards:**

Contact with powerful oxidizing agents may cause fire and/or explosions (see Section 10 of MSDS).

**SECTION 6. ACCIDENTAL RELEASE MEASURES****Precautions if Material is Spilled or Released:**

Persons involved in cleanup processes should first observe precautions (as appropriate) identified in Section 8 of this MSDS. Spilled material, where dust is generated, may overexpose cleanup personnel to respirable crystalline silica-containing dust. Do not dry sweep or use compressed air for clean-up. Wetting of spilled material and/or use of respiratory protective equipment may be necessary. Prevent spilled materials from entering streams, drains, or sewers.

For emergencies, contact 3E Company at 1-866-401-5424 (24 hours/day, 7 days/week).

**Waste Disposal Methods:**

Dispose of waste materials in accordance with applicable federal, state and local laws and regulations.

**Environmental Precautions:**

Not applicable



## SECTION 7. HANDLING AND STORAGE

### Storage:

Do not store near food and beverages or smoking materials.

### Handling:

Respirable crystalline silica-containing dust may be generated during processing, handling, and storage. Use personal protection and controls identified in Section 8 of this MSDS as appropriate.

**MANUFACTURED SAND MADE FROM THIS PRODUCT MUST NOT BE USED AS AN ABRASIVE BLASTING AGENT.**

## SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Legend:

NE = Not Established; PEL = Permissible Exposure Limit; TLV = Threshold Limit Value; REL = Recommended Exposure Limit; OSHA = Occupational Safety and Health Administration; MSHA = Mine Safety and Health Administration; NIOSH = National Institute for Occupational Safety and Health; ACGIH = American Conference of Governmental Industrial Hygienists

Component	OSHA/MSHA PEL	ACGIH TLV	NIOSH REL
Particulates not otherwise classified	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)	10 mg/m <sup>3</sup> (inhalable fraction) 3 mg/m <sup>3</sup> (respirable fraction)	NE
Respirable dust containing silica	10 mg/m <sup>3</sup> ÷ (% silica + 2)	Use Respirable Silica TLV	Use Respirable Silica REL
Total dust containing silica	OSHA: 30 mg/m <sup>3</sup> ÷ (% silica + 2) MSHA: 30 mg/m <sup>3</sup> ÷ (% silica + 3)	NE	NE
Respirable Crystalline Silica (quartz)	NE - Use respirable dust PEL	0.025 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>
Respirable Tridymite and Cristobalite (other forms of crystalline silica)	½ of OSHA and MSHA respirable dust PEL	0.025 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>

### Eye Protection:

Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or are anticipated.

### Skin Protection (Protective Gloves/Clothing):

Use gloves to provide hand protection from abrasion. In dusty conditions, use long sleeve shirts. Wash work clothes after each use.

### Respiratory Protection:

All respirators must be NIOSH-approved for the exposure levels present. (See NIOSH Respirator Selection Guide). The need for respiratory protection should be evaluated by a qualified safety and health professional. Activities that generate dust require the use of an appropriate dust respirator where dust levels exceed or are likely to exceed allowable exposure limits. For respirable silica levels that exceed or are likely to exceed an 8 hr Time Weighted Average (TWA) of 0.5 mg/m<sup>3</sup>, a high efficiency particulate filter respirator must be worn at a minimum, however; if respirable silica levels exceed or are likely to exceed an 8 hr TWA of 5.0 mg/m<sup>3</sup> a positive pressure, full face respirator or equivalent is required. Respirator use must comply with applicable MSHA (42 CFR 84) or OSHA (29 CFR 1910.134) standards, which include provisions for a user training program, respirator inspection, repair and cleaning, respirator fit testing, medical surveillance and other requirements.

### Engineering Controls:

Activities that generate dust require the use of general ventilation, local exhaust and/or wet suppression methods to maintain exposures below allowable exposure limits.

### Other:

Respirable dust and quartz levels should be monitored regularly to determine worker exposure levels. Exposure levels in excess of allowable exposure limits should be reduced by all feasible engineering controls, including (but not limited to) wet suppression, ventilation, process enclosure, and enclosed employee workstations.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not applicable	pH: Not applicable	Specific Gravity (H <sub>2</sub> O = 1): 2.55 - 2.80
Evaporation Rate (Butyl Acetate = 1): 0	Melting Point: Not applicable	Vapor Pressure (mm Hg.): Not applicable
Solubility in Water: 0	Vapor Density (Air = 1): Not applicable	% Volatile: Not applicable

### Appearance and Odor:

Angular or round multicolored particles. No odor.

## SECTION 10. STABILITY AND REACTIVITY

### Stability:

Stable under normal temperatures and pressures.

### Conditions to Avoid:

Contact with incompatible materials should be avoided (see below). See Sections 5 and 7 for additional information.

### Incompatibility (Materials to Avoid):

Contact with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, an oxygen difluoride may cause fire and/or explosions. Silica dissolves readily in hydrofluoric acid producing a corrosive gas-silicon tetrafluoride.

### Hazardous Decomposition or Byproducts:

Silica-containing respirable dust particles may be generated. When heated, quartz is slowly transformed into tridymite (above 860°C/1580°F) and cristobalite (above 1470°C/2678°F). Both tridymite and cristobalite are other forms of crystalline silica and are considered more fibrogenic to the lungs than quartz.

### Hazardous Polymerization:

Not known to occur.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute Effects:

No specific data on product.

### Effects Following Prolonged or Repeated Exposure:

Prolonged overexposure to respirable dusts in excess of allowable exposure limits can cause inflammation of the lungs leading to possible fibrotic changes, a medical condition known as pneumoconiosis.

Prolonged and repeated inhalation of respirable crystalline silica-containing dust in excess of allowable exposure limits may cause a chronic form of silicosis, an incurable lung disease that may result in permanent lung damage or death. Chronic silicosis generally occurs after 10 years or more of overexposure; a more accelerated type of silicosis may occur between 5 and 10 years of higher levels of exposure. In early stages of silicosis, not all individuals will exhibit symptoms (signs) of the disease. However, silicosis can be progressive, and symptoms can appear at any time, even years after exposure has ceased. Symptoms of silicosis may include, but are not limited to, the following: shortness of breath; difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure. Persons with silicosis have an increased risk of pulmonary tuberculosis infection.

Repeated overexposures to very high levels of respirable crystalline silica (quartz, cristobalite, tridymite) for periods as short as six months may cause acute silicosis. Acute silicosis is a rapidly progressive, incurable lung disease that is typically fatal. Symptoms include (but are not limited to): shortness of breath, cough, fever, weight loss, and chest pain.

Respirable dust containing newly broken silica particles has been shown to be more hazardous to animals in laboratory tests than respirable dust containing older silica particles of similar size. Respirable silica particles which had aged for sixty days or more showed less lung injury in animals than equal exposures of respirable dust containing newly broken particles of silica.

There are reports in the literature suggesting that excessive crystalline silica exposure may be associated with autoimmune disorders and other adverse health effects involving the kidney. In particular, the incidence of scleroderma (thickening of the skin caused by swelling and thickening of fibrous tissue) appears to be higher in silicotic individuals. To date, the evidence does not conclusively determine a causal relationship between silica exposure and these adverse health effects.

### Carcinogenicity:

Epidemiology studies on the association between crystalline silica exposure and lung cancer have had both positive and negative results. There is some speculation that the source and type of crystalline silica may play a role. Studies of persons with silicosis indicate an increased risk of developing lung cancer, a risk that increases with the level and duration of exposure. It is not clear whether or not lung cancer develops in non-silicotic patients. Several studies of silicotics do not account for lung cancer confounders, especially smoking, which have been shown to increase the risk of developing lung disorders, including emphysema and lung cancer.

In October 1996, an IARC Working Group designated respirable crystalline silica as carcinogenic (Group 1). The NTP's Report on Carcinogens, 9th edition, lists respirable crystalline silica as a "known human carcinogen." In year 2000, the American Conference of Governmental Industrial Hygienists (ACGIH) listed respirable crystalline silica (quartz) as a suspected human carcinogen (A-2). These classifications are based on sufficient evidence of carcinogenicity in certain experimental animals and on selected epidemiological studies of workers exposed to crystalline silica.

## SECTION 12. ECOLOGICAL INFORMATION

### Aquatic Ecotoxicological Data:

No specific data on this product. Not expected to be toxic to aquatic organisms.

### Environmental Fate Data:

No specific data on this product.

### Other:

No specific data on this product.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Place contaminated materials in appropriate containers and dispose of in a manner consistent with applicable federal, state, and local regulations. Prevent from entering drainage, sewer systems, and unintended bodies of water. It is the responsibility of the user to determine, at the time of disposal, whether product meets criteria for hazardous waste. Product uses, transformations, mixture and processes, may render the resulting material hazardous.

**SECTION 14. TRANSPORT INFORMATION [Note: Not intended to be all-inclusive.]**

<b>DOT Proper Shipping Name:</b> Not regulated.	<b>DOT Hazard Classification:</b> Not applicable.
<b>UN/NA Number:</b> Not regulated.	<b>DOT Packing Group:</b> Not applicable.
<b>Labeling Requirements:</b> Not applicable. Label as required by the OSHA Hazard Communication standard [29 CFR 1910.1200(f)], MSHA Hazard Communication standard [30 CFR Part 47] and applicable state and local regulations.	

**SECTION 15. REGULATORY INFORMATION [Note: Not intended to be all-inclusive.]**

<b>Toxic Substances Control Act (TSCA):</b> The components in this product are listed on the TSCA Inventory or are exempt.
<b>Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):</b> Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act.
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III:</b> <u>Section 302 extremely hazardous substances:</u> None <u>Section 311/312 hazard categories:</u> Delayed Health <u>Section 313 reportable ingredients at or above de minimus concentrations:</u> None
<b>California Proposition 65:</b> This product contains a chemical (crystalline silica) known to the State of California to cause cancer.
<b>State Regulatory Lists:</b> Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should review the components listed in Section 2 and consult state or local authorities for specific regulations that apply.

**SECTION 16. OTHER INFORMATION**Disclaimer of Liability

Vulcan Materials Company believes the information contained herein is accurate, however, Vulcan Materials Company makes no guarantees with respect to such accuracy and assumes no liability in connection with the use of the information contained herein by any party. The provision of the information contained herein is not intended to be and should not be construed as legal advice or as ensuring compliance with and federal, state, or local laws and regulations. Any party using this product should review all such laws, rules or regulations prior to use.

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 10  
Date Received 09/25/2013  
Date Reported 09/26/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70754	09/25/2013	SC/G

**Project ID:** ALAMEDA  
**Project Name:** Alameda MGP  
**Site:** Backfill Import Soil  
from Vulcan  
Irwindale, CA

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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# CHAIN OF CUSTODY RECORD

No 74428

Page 1 of 1

COMPANY So Cal Gas PROJECT MANAGER M. Chyza  
 COMPANY ADDRESS 555 W. Walnut 5th St, CA 91504 PHONE \_\_\_\_\_ FAX \_\_\_\_\_  
 PROJECT NAME Ferne Mendez MGR PROJECT # \_\_\_\_\_

SITE NAME AND ADDRESS Backfill in part from Vulcan IRWINDREE, CA PO # \_\_\_\_\_

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1 BF-P1-1	70754.01	9/25/13	0800	SOIL	402/300	-
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
PHAS 830	X		
T.H. 72 Metals	X		
T.M.H. 0.815	X		

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS 3 PROPERLY COOLED  Y/N/NA

CUSTODY SEALS  Y(N)/NA SAMPLES INTACT  Y(N)/NA

RECEIVED IN GOOD COND.  Y/N SAMPLES ACCEPTED  Y/N

TURN AROUND TIME  RUSH  SAME DAY  2 DAYS  3 DAYS

NORMAL  RUSH

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: <u>[Signature]</u> Printed Name: <u>F. Kasio</u> Date: <u>9/25/13</u> Time: <u>1335</u>	Signature: <u>[Signature]</u> Printed Name: <u>[Signature]</u> Date: <u>9/25/13</u> Time: <u>1440</u>	Signature: <u>[Signature]</u> Printed Name: <u>[Signature]</u> Date: <u>9/25/13</u> Time: <u>1440</u>

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 09/25/2013  
Date Reported 09/26/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
70754	09/25/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 09/25/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
70754.01	BF-P1-1	09/25/2013	Soil	3
Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	09/26/2013	2	Rush	mg/Kg
(8310)	09/26/2013	2	Rush	mg/Kg
(M8015D) ^ C13-C40	09/26/2013	2	Rush	mg/Kg
(M8015G)	09/26/2013	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Backfill Import Soil  
 from Vulcan  
 Irwindale, CA

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA  
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70754	09/25/2013	SC/G

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 092513NB1

<b>Our Lab I.D.</b>			Method Blank	<b>70754.01</b>			
Client Sample I.D.				BF-P1-1			
Date Sampled				09/25/2013			
Date Prepared			09/25/2013	09/25/2013			
Preparation Method			5030	5030			
Date Analyzed			09/25/2013	09/25/2013			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>			
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND			
<b>Our Lab I.D.</b>			Method Blank	<b>70754.01</b>			
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>			
Bromofluorobenzene	75-125		104	110			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Backfill Import Soil  
 from Vulcan  
 Irwindale, CA

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA  
 Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70754	09/25/2013	SC/G

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 092613

<b>Our Lab I.D.</b>			Method Blank	<b>70754.01</b>		
Client Sample I.D.				BF-P1-1		
Date Sampled				09/25/2013		
Date Prepared			09/26/2013	09/26/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/26/2013	09/26/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>		
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND		
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND		
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND		
<b>Our Lab I.D.</b>			Method Blank	<b>70754.01</b>		
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>		
Chlorobenzene	75-125		99.3	100		





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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Backfill Import Soil  
 from Vulcan  
 Irwindale, CA

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70754	09/25/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1

Our Lab I.D.			Method Blank	70754.01		
Client Sample I.D.				BF-P1-1		
Date Sampled				09/25/2013		
Date Prepared			09/26/2013	09/26/2013		
Preparation Method			3550B	3550B		
Date Analyzed			09/26/2013	09/26/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND		
Benzo(a)pyrene	0.010	0.020	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	ND	ND		
Chrysene	0.010	0.020	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	ND		
Fluoranthene	0.010	0.020	ND	ND		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	ND		
Pyrene	0.010	0.020	ND	ND		
Our Lab I.D.			Method Blank	70754.01		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		115	100		



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## ANALYTICAL RESULTS

### Ordered By

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 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Backfill Import Soil  
 from Vulcan  
 Irwindale, CA

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 5

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70754	09/25/2013	SC/G

Method: (6010B/7000CAM), CAM Title 22 Metals (SW-846)

QC Batch No: 0925132C1

Our Lab I.D.			Method Blank	70754.01		
Client Sample I.D.				BF-P1-1		
Date Sampled				09/25/2013		
Date Prepared			09/25/2013	09/25/2013		
Preparation Method			3050B	3050B		
Date Analyzed			09/25/2013	09/25/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Antimony	1.0	5.0	ND	ND		
Arsenic	1.0	5.0	ND	2.78J		
Barium	2.5	5.0	ND	87.7		
Beryllium	1.3	2.5	ND	ND		
Cadmium	1.3	2.5	ND	ND		
Chromium	2.5	5.0	ND	8.13		
Cobalt	2.5	5.0	ND	6.40		
Copper	2.5	5.0	ND	11.9		
Lead	2.5	5.0	ND	ND		
Mercury (By EPA 7471)	0.1	0.2	ND	ND		
Molybdenum	2.5	5.0	ND	ND		
Nickel	2.5	5.0	ND	7.98		
Selenium	1.0	5.0	ND	ND		
Silver	2.5	5.0	ND	ND		
Thallium	1.0	5.0	ND	ND		
Vanadium	2.5	5.0	ND	21.1		
Zinc	2.5	5.0	ND	31.6		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Backfill Import Soil  
 from Vulcan  
 Irwindale, CA

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 6

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70754	09/25/2013	SC/G

Method: (6010B/7000CAM), CAM Title 22 Metals (SW-846)

QC Batch No: 0925132C1; Dup or Spiked Sample: 70733.01; LCS: Clean Sand; QC Prepared: 09/25/2013; QC Analyzed: 09/25/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	47.0	94.0	50.0	47.1	94.2	<1	75-125	<15
Arsenic	6.44	50.0	54.0	95.1	50.0	54.5	96.1	1.05	75-125	<15
Barium	98.6	50.0	144	90.8	50.0	144	90.8	<1	75-125	<15
Beryllium	0.00	50.0	48.9	97.8	50.0	49.0	98.0	<1	75-125	<15
Cadmium	2.30	50.0	46.6	88.6	50.0	46.8	89.0	<1	75-125	<15
Chromium	27.4	50.0	71.8	88.8	50.0	72.0	89.2	<1	75-125	<15
Cobalt	8.09	50.0	53.2	90.2	50.0	52.9	89.6	<1	75-125	<15
Copper	20.0	50.0	69.9	99.8	50.0	70.1	100	<1	75-125	<15
Lead	9.90	50.0	53.3	86.8	50.0	52.8	85.8	1.16	75-125	<15
Mercury (By EPA 7471)	0.00	0.500	0.400	80.0	0.500	0.378	75.6	5.7	75-125	<15
Molybdenum	0.00	50.0	49.1	98.2	50.0	49.0	98.0	<1	75-125	<15
Nickel	19.1	50.0	61.1	84.0	50.0	61.3	84.4	<1	75-125	<15
Selenium	0.00	50.0	47.3	94.6	50.0	46.1	92.2	2.57	75-125	<15
Silver	0.00	50.0	47.0	94.0	50.0	47.2	94.4	<1	75-125	<15
Thallium	0.00	50.0	33.6 #	67.2	50.0	33.5 #	67.0	<1	75-125	<15
Vanadium	53.4	50.0	100	93.2	50.0	100	93.2	<1	75-125	<15
Zinc	68.7	50.0	112	86.6	50.0	112	86.6	<1	75-125	<15

QC Batch No: 0925132C1; Dup or Spiked Sample: 70733.01; LCS: Clean Sand; QC Prepared: 09/25/2013; QC Analyzed: 09/25/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Antimony	50.0	48.5	97.0	50.0	47.7	95.4	1.66	75-125	<15
Arsenic	50.0	49.3	98.6	50.0	48.4	96.8	1.84	75-125	<15
Barium	50.0	48.6	97.2	50.0	49.0	98.0	<1	75-125	<15
Beryllium	50.0	53.0	106	50.0	51.1	102	3.85	75-125	<15
Cadmium	50.0	48.7	97.4	50.0	48.9	97.8	<1	75-125	<15
Chromium	50.0	50.5	101	50.0	50.8	102	<1	75-125	<15
Cobalt	50.0	49.9	99.8	50.0	50.3	101	1.20	75-125	<15
Copper	50.0	51.9	104	50.0	52.4	105	<1	75-125	<15
Lead	50.0	47.8	95.6	50.0	47.1	94.2	1.48	75-125	<15



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## QUALITY CONTROL RESULTS

Page: 7

Project ID: ALAMEDA  
Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70754	09/25/2013	SC/G

Method: (6010B/7000CAM), CAM Title 22 Metals (SW-846)

QC Batch No: 0925132C1; Dup or Spiked Sample: 70733.01; LCS: Clean Sand; QC Prepared: 09/25/2013; QC Analyzed: 09/25/2013;  
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.505	101	0.500	0.505	101	<1	75-125	<15	
Molybdenum	50.0	51.9	104	50.0	51.5	103	<1	75-125	<15	
Nickel	50.0	48.2	96.4	50.0	48.4	96.8	<1	75-125	<15	
Selenium	50.0	46.2	92.4	50.0	45.0	90.0	2.63	75-125	<15	
Silver	50.0	49.4	98.8	50.0	49.7	99.4	<1	75-125	<15	
Thallium	50.0	45.5	91.0	50.0	45.0	90.0	1.10	75-125	<15	
Vanadium	50.0	51.3	103	50.0	51.6	103	<1	75-125	<15	
Zinc	50.0	48.3	96.6	50.0	48.4	96.8	<1	75-125	<15	



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Backfill Import Soil  
 from Vulcan  
 Irwindale, CA

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 8

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70754	09/25/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 092613IB1; Dup or Spiked Sample: 70754.01; LCS: Clean Sand; QC Prepared: 09/26/2013; QC Analyzed: 09/26/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	110	0.0500	0.0500	107	2.76	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0500	98.8	0.0500	0.0500	97.4	1.43	75-125	<20
Naphthalene	0.00	0.500	0.510	103	0.500	0.510	102	<1	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.403	101	0.400	0.398	99.5	1.49	75-125	<20

QC Batch No: 092613IB1; Dup or Spiked Sample: 70754.01; LCS: Clean Sand; QC Prepared: 09/26/2013; QC Analyzed: 09/26/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Benzo(a)anthracene	0.0500	0.0500	105	0.0500	0.0600	113	7.34	75-125	<20
Benzo(a)pyrene	0.0500	0.0500	94.2	0.0500	0.0500	101	6.97	75-125	<20
Naphthalene	0.500	0.510	101	0.500	0.540	108	6.70	75-125	<20
<b>LCS</b>									
Acenaphthene	0.500	0.520	105	0.500	0.560	112	6.45	75-125	<20
Acenaphthylene	1.00	0.910	91.2	1.00	0.960	96.3	5.44	75-125	<20
Anthracene	0.0500	0.0500	99.6	0.0500	0.0500	106	6.23	75-125	<20
Benzo(b)fluoranthene	0.100	0.100	97.7	0.100	0.100	104	6.25	75-125	<20
Benzo(g,h,i)perylene	0.100	0.100	103	0.100	0.0900	90.5	12.9	75-125	<20
Benzo(k)fluoranthene	0.0500	0.0500	98.6	0.0500	0.0500	108	9.10	75-125	<20
Chrysene	0.0500	0.0500	105	0.0500	0.0600	113	7.34	75-125	<20
Dibenzo(a,h)anthracene	0.100	0.110	106	0.100	0.110	113	6.39	75-125	<20
Fluoranthene	0.100	0.100	102	0.100	0.110	110	7.55	75-125	<20
Fluorene	0.100	0.0900	92.2	0.100	0.100	98.9	7.01	75-125	<20
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	95.6	0.0500	0.0500	91.6	4.27	75-125	<20
Phenanthrene	0.0500	0.0500	103	0.0500	0.0600	110	6.57	75-125	<20
Pyrene	0.0500	0.0500	103	0.0500	0.0500	110	6.57	75-125	<20
<b>Surrogates</b>									
p-Terphenyl-D14	0.400	0.389	97.3	0.400	0.416	104	6.89	75-125	<20



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

Backfill Import Soil  
 from Vulcan  
 Irwindale, CA

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 9

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70754	09/25/2013	SC/G

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 092613; Dup or Spiked Sample: 70454.01; LCS: Clean Sand; QC Prepared: 09/26/2013; QC Analyzed: 09/26/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	495	99.0	500	497	99.4	<1	75-125	<20
<b>Surrogates</b>										
Chlorobenzene	0.00	100	97.3	97.3	100	98.1	98.1	<1	75-125	<20

QC Batch No: 092613; Dup or Spiked Sample: 70454.01; LCS: Clean Sand; QC Prepared: 09/26/2013; QC Analyzed: 09/26/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Diesel (C13-C22)	500	484	96.8	500	494	98.8	2.0	75-125	<20
<b>Surrogates</b>									
Chlorobenzene	100	97.0	97.0	100	98.4	98.4	1.4	75-125	<20



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## QUALITY CONTROL RESULTS

### Ordered By

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### Site

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 from Vulcan  
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Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 10

Project ID: ALAMEDA

Project Name: Alameda MGP

AETL Job Number	Submitted	Client
70754	09/25/2013	SC/G

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 092513NB1; Dup or Spiked Sample: 70754.01AGA; LCS: Clean Sand; QC Prepared: 09/25/2013; MS Analyzed: 09/26/2013;  
 LCS Analyzed: 09/25/2013; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.820	81.7	1.00	0.800	79.5	2.73	75-125	<20
<b>Surrogates</b>										
Bromofluorobenzene	0.00	0.0500	0.0578	116	0.0500	0.0573	115	<1	75-125	<20

QC Batch No: 092513NB1; Dup or Spiked Sample: 70754.01AGA; LCS: Clean Sand; QC Prepared: 09/25/2013; MS Analyzed: 09/26/2013;  
 LCS Analyzed: 09/25/2013; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.910	90.8	1.00	0.980	97.7	7.32	75-125	<20
<b>Surrogates</b>									
Bromofluorobenzene	0.0500	0.0539	108	0.0500	0.0576	115	6.48	75-125	<20



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### Data Qualifiers and Descriptors

#### **Data Qualifier:**

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### **Definition:**

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.





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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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### Ordered By

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Los Angeles, CA 90013-1011

Number of Pages 10  
Date Received 11/26/2013  
Date Reported 12/06/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71465	11/26/2013	SC/G

**Project ID:** ALAMEDA  
**Project Name:** Former Alameda MGP Site  
**Site:** 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



**American Environmental Testing Laboratory Inc.**  
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# CHAIN OF CUSTODY RECORD

No 82699

Page \_\_\_\_\_ of \_\_\_\_\_

AETL JOB No. **71465**

COMPANY **SO CAL GAS COMPANY** PROJECT MANAGER **PAHALEEN**  
 COMPANY ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_  
 PROJECT # \_\_\_\_\_  
 SITE NAME **FORMER ALAMEDA MGP SITE** PO # \_\_\_\_\_  
 AND ADDRESS **732 S ALAMEDA ST, LA, CA**

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED			TEST INSTRUCTIONS & COMMENTS
							TPHs (5 Boism)	CM Metals	PAHs	
1	SI-11/24/2013	71465-01	11/26/2013	0705	S	4oz G	X	X	X	
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS **1** PROPERLY COOLED **Y/N/NA** RELINQUISHED BY SAMPLER: \_\_\_\_\_  
 CUSTODY SEALS **Y/N/NA** SAMPLES INTACT **Y/N/NA** Signature: **[Signature]**  
 RECEIVED IN GOOD COND. **Y/N** SAMPLES ACCEPTED **Y/N** Printed Name: **JOE MANTERS**  
 Date: **11/26/2013** Time: **1117** Date: **11/26/13** Time: **12:07**

TURN AROUND TIME DATA DELIVERABLE REQUIRED

NORMAL  RUSH  SAME DAY  NEXT DAY  2 DAYS  3 DAYS  
 HARD COPY  PDF  GEOTRACKER (GLOBAL ID)  OTHER (PLEASE SPECIFY) \_\_\_\_\_

RECEIVED BY: **1** Signature: **[Signature]** RECEIVED BY: **2** Signature: \_\_\_\_\_  
 Printed Name: **CHARLON PARDWA** Printed Name: \_\_\_\_\_  
 Date: **11/26/13** Date: **11/26/13**  
 Time: **1117** Time: \_\_\_\_\_

RELINQUISHED BY: **3** Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

## Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 11/26/2013  
Date Reported 12/06/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71465	11/26/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 11/26/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71465.01	SI-11/26/2013	11/26/2013	Soil	1
Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	12/03/2013	2	Normal	mg/Kg
(8310)	12/03/2013	2	Normal	mg/Kg
(M8015D)	12/03/2013	2	Normal	mg/Kg
(M8015G)	12/03/2013	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody.  
No analytical non-conformances were encountered.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71465	11/26/2013	SC/G

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 112613NB1

<b>Our Lab I.D.</b>			Method Blank	<b>71465.01</b>			
Client Sample I.D.				SI-11/26/2013			
Date Sampled				11/26/2013			
Date Prepared			11/26/2013	11/26/2013			
Preparation Method			5030	5030			
Date Analyzed			11/27/2013	11/28/2013			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>			
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND			
<b>Our Lab I.D.</b>			Method Blank	<b>71465.01</b>			
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>			
Bromofluorobenzene	75-125		86.6	90.6			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71465	11/26/2013	SC/G

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 112713DB1

<b>Our Lab I.D.</b>			Method Blank	<b>71465.01</b>		
Client Sample I.D.				SI-11/26/2013		
Date Sampled				11/26/2013		
Date Prepared			11/27/2013	11/27/2013		
Preparation Method			3550B	3550B		
Date Analyzed			11/27/2013	11/27/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>		
TPH as Diesel (C9-C22)	1.0	10.0	ND	ND		
TPH as Heavy Hydrocarbons (C23-C40)	1.0	10.0	ND	ND		
TPH Total as Diesel and Heavy HC. C9-C40	1.0	10.0	ND	ND		
<b>Our Lab I.D.</b>			Method Blank	<b>71465.01</b>		
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>		
Chlorobenzene	75-125		101	104		



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71465	11/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 120313IB1

Our Lab I.D.			Method Blank	71465.01		
Client Sample I.D.				SI-11/26/2013		
Date Sampled				11/26/2013		
Date Prepared			12/03/2013	12/03/2013		
Preparation Method			3550B	3550B		
Date Analyzed			12/03/2013	12/03/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND		
Benzo(a)pyrene	0.010	0.020	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	ND	ND		
Chrysene	0.010	0.020	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	ND		
Fluoranthene	0.010	0.020	ND	ND		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	ND		
Pyrene	0.010	0.020	ND	ND		
Our Lab I.D.			Method Blank	71465.01		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		115	114		



# American Environmental Testing Laboratory Inc.

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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 5

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71465	11/26/2013	SC/G

Method: (6010B/7000CAM), CAM Title 22 Metals (SW-846)

QC Batch No: 112713-1

Our Lab I.D.			Method Blank	71465.01		
Client Sample I.D.				SI-11/26/2013		
Date Sampled				11/26/2013		
Date Prepared			11/27/2013	11/27/2013		
Preparation Method			3050B	3050B		
Date Analyzed			12/03/2013	12/03/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Antimony	1.0	5.0	ND	ND		
Arsenic	1.0	5.0	ND	ND		
Barium	2.5	5.0	ND	63.5		
Beryllium	1.3	2.5	ND	ND		
Cadmium	1.3	2.5	ND	ND		
Chromium	2.5	5.0	ND	11.9		
Cobalt	2.5	5.0	ND	6.50		
Copper	2.5	5.0	ND	5.40		
Lead	2.5	5.0	ND	ND		
Mercury (By EPA 7471)	0.1	0.2	ND	ND		
Molybdenum	2.5	5.0	ND	ND		
Nickel	2.5	5.0	ND	9.60		
Selenium	1.0	5.0	ND	ND		
Silver	2.5	5.0	ND	ND		
Thallium	1.0	5.0	ND	ND		
Vanadium	2.5	5.0	ND	25.0		
Zinc	2.5	5.0	ND	23.9		





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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 6

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71465	11/26/2013	SC/G

Method: (6010B/7000CAM), CAM Title 22 Metals (SW-846)

QC Batch No: 112713-1; Dup or Spiked Sample: 71465.01; LCS: Clean Sand; QC Prepared: 11/27/2013; QC Analyzed: 12/03/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	48.5	96.9	50.0	48.1	96.1	<1	75-125	<15
Arsenic	0.00	50.0	48.6	97.2	50.0	48.5	96.9	<1	75-125	<15
Barium	63.5	50.0	118	108	50.0	117	107	<1	75-125	<15
Beryllium	0.00	50.0	51.5	103	50.0	51.5	103	<1	75-125	<15
Cadmium	0.00	50.0	49.1	98.2	50.0	48.9	97.7	<1	75-125	<15
Chromium	11.9	50.0	62.4	101	50.0	62.4	101	<1	75-125	<15
Cobalt	6.50	50.0	57.5	102	50.0	57.0	101	<1	75-125	<15
Copper	5.40	50.0	53.0	95.2	50.0	53.0	95.2	<1	75-125	<15
Lead	0.00	50.0	48.1	96.2	50.0	47.5	95.0	1.3	75-125	<15
Mercury (By EPA 7471)	0.00	0.500	0.525	105	0.500	0.515	103	1.9	75-125	<15
Molybdenum	0.00	50.0	49.1	98.2	50.0	49.1	98.2	<1	75-125	<15
Nickel	9.60	50.0	59.5	99.8	50.0	59.0	98.8	1.0	75-125	<15
Selenium	0.00	50.0	48.5	96.9	50.0	48.3	96.5	<1	75-125	<15
Silver	0.00	50.0	43.8	87.5	50.0	43.8	87.5	<1	75-125	<15
Thallium	0.00	50.0	41.7	83.4	50.0	41.8	83.5	<1	75-125	<15
Vanadium	25.0	50.0	75.0	100	50.0	75.0	100	<1	75-125	<15
Zinc	23.9	50.0	71.0	94.2	50.0	71.0	94.2	<1	75-125	<15

QC Batch No: 112713-1; Dup or Spiked Sample: 71465.01; LCS: Clean Sand; QC Prepared: 11/27/2013; QC Analyzed: 12/03/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Antimony	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15
Arsenic	50.0	50.0	100	50.0	49.4	98.8	1.2	75-125	<15
Barium	50.0	50.5	101	50.0	51.0	102	<1	75-125	<15
Beryllium	50.0	54.5	109	50.0	54.0	108	<1	75-125	<15
Cadmium	50.0	50.5	101	50.0	50.0	100	<1	75-125	<15
Chromium	50.0	52.0	104	50.0	52.0	104	<1	75-125	<15
Cobalt	50.0	52.0	104	50.0	52.5	105	<1	75-125	<15
Copper	50.0	49.0	98.0	50.0	49.3	98.5	<1	75-125	<15
Lead	50.0	49.6	99.1	50.0	49.8	99.5	<1	75-125	<15



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## QUALITY CONTROL RESULTS

Page: 7

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71465	11/26/2013	SC/G

Method: (6010B/7000CAM), CAM Title 22 Metals (SW-846)

QC Batch No: 112713-1; Dup or Spiked Sample: 71465.01; LCS: Clean Sand; QC Prepared: 11/27/2013; QC Analyzed: 12/03/2013;  
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.540	108	0.500	0.540	108	<1	75-125	<15	
Molybdenum	50.0	51.5	103	50.0	51.5	103	<1	75-125	<15	
Nickel	50.0	50.5	101	50.0	50.0	100	<1	75-125	<15	
Selenium	50.0	50.0	100	50.0	49.5	99.0	1.0	75-125	<15	
Silver	50.0	46.4	92.8	50.0	46.2	92.4	<1	75-125	<15	
Thallium	50.0	51.0	102	50.0	52.0	104	1.9	75-125	<15	
Vanadium	50.0	52.5	105	50.0	52.0	104	<1	75-125	<15	
Zinc	50.0	49.0	98.0	50.0	48.7	97.4	<1	75-125	<15	



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 8

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71465	11/26/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 120313IB1; Dup or Spiked Sample: 71465.01; LCS: Clean Sand; QC Prepared: 12/03/2013; QC Analyzed: 12/03/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	118	0.0500	0.0500	104	12.6	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0400	87.4	0.0500	0.0400	89.6	2.49	75-125	<20
Naphthalene	0.00	0.500	0.550	111	0.500	0.530	107	3.67	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.457	114	0.400	0.460	115	<1	75-125	<20

QC Batch No: 120313IB1; Dup or Spiked Sample: 71465.01; LCS: Clean Sand; QC Prepared: 12/03/2013; QC Analyzed: 12/03/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0600	121	75-125						
Benzo(a)pyrene	0.0500	0.0600	112	75-125						
Naphthalene	0.500	0.550	110	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.590	119	75-125						
Acenaphthylene	1.00	1.08	108	75-125						
Anthracene	0.0500	0.0600	115	75-125						
Benzo(b)fluoranthene	0.100	0.120	116	75-125						
Benzo(g,h,i)perylene	0.100	0.120	119	75-125						
Benzo(k)fluoranthene	0.0500	0.0600	120	75-125						
Chrysene	0.0500	0.0600	125	75-125						
Dibenzo(a,h)anthracene	0.100	0.120	123	75-125						
Fluoranthene	0.100	0.120	123	75-125						
Fluorene	0.100	0.100	101	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	104	75-125						
Phenanthrene	0.0500	0.0600	122	75-125						
Pyrene	0.0500	0.0600	116	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.468	117	75-125						



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 9

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71465	11/26/2013	SC/G

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 112713DB1; Dup or Spiked Sample: 71471.01; LCS: Clean Sand; QC Prepared: 11/27/2013; QC Analyzed: 11/27/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C9-C22)	0.00	500	440	88.0	500	432	86.4	1.8	75-125	<20
<b>Surrogates</b>										
Chlorobenzene	0.00	100	99.5	99.5	100	100	100	<1	75-125	<20

QC Batch No: 112713DB1; Dup or Spiked Sample: 71471.01; LCS: Clean Sand; QC Prepared: 11/27/2013; QC Analyzed: 11/27/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
TPH as Diesel (C9-C22)	500	454	90.8	75-125						
<b>Surrogates</b>										
Chlorobenzene	100	101	101	75-125						



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 10

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71465	11/26/2013	SC/G

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 112613NB1; Dup or Spiked Sample: 71465.01AGA; LCS: Clean Sand; QC Prepared: 11/26/2013; QC Analyzed: 11/28/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.0210	1.00	1.19	117	1.00	1.01	98.9	16.8	75-125	<20
<b>Surrogates</b>										
Bromofluorobenzene	0.00	0.0500	0.0429	85.8	0.0500	0.0469	93.8	9.32	75-125	<20

QC Batch No: 112613NB1; Dup or Spiked Sample: 71465.01AGA; LCS: Clean Sand; QC Prepared: 11/26/2013; QC Analyzed: 11/28/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	1.00	1.08	108	1.00	0.920	91.6	16.4	75-125	<20
<b>Surrogates</b>									
Bromofluorobenzene	0.0500	0.0417	83.4	0.0500	0.0386	77.2	7.43	75-125	<20



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 10  
Date Received 12/02/2013  
Date Reported 12/09/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71496	12/02/2013	SC/G

**Project ID:** ALAMEDA  
**Project Name:** Former Alameda MGP Site  
**Site:** 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director





**American Environmental Testing Laboratory Inc.**  
 2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181  
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**CHAIN OF CUSTODY RECORD**

No 81560

71496

AETL JOB No.

Page 1 of 1

COMPANY: So Cal Gases  
 PROJECT MANAGER: Kathleen Chynoweth  
 COMPANY ADDRESS: 555 W. 5th Street, L.A. CA  
 PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
 PROJECT NAME: Former Alameda Blvd - a-White  
 PROJECT #: \_\_\_\_\_  
 PO #: \_\_\_\_\_  
 SITE NAME AND ADDRESS: 732 S. Alameda St, LA CA

ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS	
0188	TLH 6' D 800		
0189	TLH 8' D 800		
0190	TLH 10' D 800		
0191	TLH 12' D 800		
0192	TLH 14' D 800		
0193	TLH 16' D 800		
0194	TLH 18' D 800		
0195	TLH 20' D 800		
0196	TLH 22' D 800		
0197	TLH 24' D 800		
0198	TLH 26' D 800		
0199	TLH 28' D 800		
0200	TLH 30' D 800		

**SAMPLE RECEIPT - TO BE FILLED BY LABORATORY**

TOTAL NUMBER OF CONTAINERS: 3  
 PROPERLY COOLED: Y/N/NA  
 CUSTODY SEALS: Y/N/NA  
 SAMPLES INTACT: Y/N/NA  
 RECEIVED IN GOOD COND.: Y/N  
 SAMPLES ACCEPTED: Y/N

TURN AROUND TIME  
 NORMAL  
 RUSH  
 SAME DAY  
 NEXT DAY  
 2 DAYS  
 3 DAYS

DATA DELIVERABLE REQUIRED  
 HARD COPY  
 PDF  
 GEOTRACKER (GLOBAL ID)  
 OTHER (PLEASE SPECIFY)

SAMPLER	RELINQUISHED BY	RECEIVED BY
1.	2.	3.
Signature: [Signature]	Signature: [Signature]	Signature: [Signature]
Printed Name: [Name]	Printed Name: [Name]	Printed Name: [Name]
Date: 12/11/13 Time: 1400	Date: 12/11/13 Time: 1535	Date: 12/11/13 Time: 1535

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 12/02/2013  
Date Reported 12/09/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71496	12/02/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 12/02/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71496.01	S2-120213	12/02/2013	Soil	3
Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	12/09/2013	2	Normal	mg/Kg
(8310)	12/09/2013	2	Normal	mg/Kg
(M8015D) ^ C13-C40	12/09/2013	2	Normal	mg/Kg
(M8015G)	12/09/2013	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71496	12/02/2013	SC/G

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 120513NB1

<b>Our Lab I.D.</b>			Method Blank	<b>71496.01</b>			
Client Sample I.D.				S2-120213			
Date Sampled				12/02/2013			
Date Prepared			12/05/2013	12/05/2013			
Preparation Method			5030	5030			
Date Analyzed			12/05/2013	12/06/2013			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>			
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND			
<b>Our Lab I.D.</b>			Method Blank	<b>71496.01</b>			
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>			
Bromofluorobenzene	75-125		96.0	102			



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71496	12/02/2013	SC/G

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 120313DB1

<b>Our Lab I.D.</b>			Method Blank	<b>71496.01</b>		
Client Sample I.D.				S2-120213		
Date Sampled				12/02/2013		
Date Prepared			12/03/2013	12/03/2013		
Preparation Method			3550B	3550B		
Date Analyzed			12/03/2013	12/03/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>		
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND		
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND		
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND		
<b>Our Lab I.D.</b>			Method Blank	<b>71496.01</b>		
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>		
Chlorobenzene	75-125		107	103		



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71496	12/02/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 120313IB1

Our Lab I.D.			Method Blank	71496.01		
Client Sample I.D.				S2-120213		
Date Sampled				12/02/2013		
Date Prepared			12/03/2013	12/03/2013		
Preparation Method			3550B	3550B		
Date Analyzed			12/03/2013	12/03/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND		
Benzo(a)pyrene	0.010	0.020	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	ND	ND		
Chrysene	0.010	0.020	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	ND		
Fluoranthene	0.010	0.020	ND	ND		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	ND		
Pyrene	0.010	0.020	ND	ND		
Our Lab I.D.			Method Blank	71496.01		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		115	113		



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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
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 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 5

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71496	12/02/2013	SC/G

Method: (6010B/7000CAM), CAM Title 22 Metals (SW-846)

QC Batch No: 120213-2

Our Lab I.D.			Method Blank	71496.01		
Client Sample I.D.				S2-120213		
Date Sampled				12/02/2013		
Date Prepared			12/02/2013	12/02/2013		
Preparation Method			3050B	3050B		
Date Analyzed			12/03/2013	12/03/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Antimony	1.0	5.0	ND	ND		
Arsenic	1.0	5.0	ND	ND		
Barium	2.5	5.0	ND	54.0		
Beryllium	1.3	2.5	ND	ND		
Cadmium	1.3	2.5	ND	ND		
Chromium	2.5	5.0	ND	9.90		
Cobalt	2.5	5.0	ND	6.35		
Copper	2.5	5.0	ND	4.40J		
Lead	2.5	5.0	ND	ND		
Mercury (By EPA 7471)	0.1	0.2	ND	ND		
Molybdenum	2.5	5.0	ND	ND		
Nickel	2.5	5.0	ND	7.25		
Selenium	1.0	5.0	ND	ND		
Silver	2.5	5.0	ND	ND		
Thallium	1.0	5.0	ND	ND		
Vanadium	2.5	5.0	ND	21.5		
Zinc	2.5	5.0	ND	19.0		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 6

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71496	12/02/2013	SC/G

Method: (6010B/7000CAM), CAM Title 22 Metals (SW-846)

QC Batch No: 120213-2; Dup or Spiked Sample: 71497.01; LCS: Clean Sand; QC Prepared: 12/02/2013; QC Analyzed: 12/03/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	44.1	88.1	50.0	42.7	85.4	3.1	75-125	<15
Arsenic	0.00	50.0	46.5	92.9	50.0	44.5	88.9	4.4	75-125	<15
Barium	65.5	50.0	161 #	191	50.0	160 #	189	1.1	75-125	<15
Beryllium	0.00	50.0	45.7	91.3	50.0	45.1	90.2	1.2	75-125	<15
Cadmium	0.00	50.0	42.7	85.3	50.0	41.6	83.2	2.5	75-125	<15
Chromium	10.4	50.0	56.5	92.2	50.0	56.0	91.2	1.1	75-125	<15
Cobalt	6.65	50.0	50.0	86.7	50.0	49.1	84.9	2.1	75-125	<15
Copper	4.35	50.0	48.0	87.3	50.0	47.6	86.4	1.0	75-125	<15
Lead	0.00	50.0	41.8	83.5	50.0	40.5	81.0	3.0	75-125	<15
Mercury (By EPA 7471)	0.00	0.500	0.525	105	0.500	0.520	104	<1	75-125	<15
Molybdenum	0.00	50.0	42.3	84.6	50.0	41.5	82.9	2.0	75-125	<15
Nickel	8.20	50.0	51.5	86.6	50.0	50.0	83.6	3.5	75-125	<15
Selenium	0.00	50.0	46.1	92.2	50.0	45.6	91.1	1.2	75-125	<15
Silver	0.00	50.0	41.6	83.1	50.0	41.2	82.3	<1	75-125	<15
Thallium	0.00	50.0	31.9 #	63.7	50.0	31.1 #	62.1	2.5	75-125	<15
Vanadium	21.4	50.0	67.5	92.2	50.0	67.0	91.2	1.1	75-125	<15
Zinc	22.9	50.0	68.5	91.2	50.0	67.5	89.2	2.2	75-125	<15

QC Batch No: 120213-2; Dup or Spiked Sample: 71497.01; LCS: Clean Sand; QC Prepared: 12/02/2013; QC Analyzed: 12/03/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
Antimony	50.0	48.7	97.3	50.0	49.0	98.0	<1	75-125	<15
Arsenic	50.0	49.4	98.7	50.0	49.1	98.2	<1	75-125	<15
Barium	50.0	41.5	82.9	50.0	43.5	86.9	4.7	75-125	<15
Beryllium	50.0	49.9	99.7	50.0	51.0	102	2.3	75-125	<15
Cadmium	50.0	47.4	94.7	50.0	48.5	96.9	2.3	75-125	<15
Chromium	50.0	42.6	85.1	50.0	44.9	89.7	5.3	75-125	<15
Cobalt	50.0	44.2	88.3	50.0	45.4	90.8	2.8	75-125	<15
Copper	50.0	45.1	90.2	50.0	46.0	91.9	1.9	75-125	<15
Lead	50.0	45.5	91.0	50.0	46.2	92.3	1.4	75-125	<15



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## QUALITY CONTROL RESULTS

Page: 7

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71496	12/02/2013	SC/G

Method: (6010B/7000CAM), CAM Title 22 Metals (SW-846)

QC Batch No: 120213-2; Dup or Spiked Sample: 71497.01; LCS: Clean Sand; QC Prepared: 12/02/2013; QC Analyzed: 12/03/2013;  
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	0.500	0.487	97.4	0.500	0.481	96.1	1.3	75-125	<15	
Molybdenum	50.0	46.0	91.9	50.0	46.8	93.6	1.8	75-125	<15	
Nickel	50.0	44.6	89.1	50.0	46.1	92.2	3.4	75-125	<15	
Selenium	50.0	50.0	99.9	50.0	50.5	101	1.1	75-125	<15	
Silver	50.0	41.7	83.3	50.0	42.8	85.5	2.6	75-125	<15	
Thallium	50.0	45.9	91.7	50.0	47.2	94.4	2.9	75-125	<15	
Vanadium	50.0	44.4	88.7	50.0	46.2	92.4	4.1	75-125	<15	
Zinc	50.0	46.9	93.7	50.0	47.6	95.2	1.6	75-125	<15	





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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 8

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71496	12/02/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 120313IB1; Dup or Spiked Sample: 71465.01; LCS: Clean Sand; QC Prepared: 12/03/2013; QC Analyzed: 12/03/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	118	0.0500	0.0500	104	12.6	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0400	87.4	0.0500	0.0400	89.6	2.49	75-125	<20
Naphthalene	0.00	0.500	0.550	111	0.500	0.530	107	3.67	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.457	114	0.400	0.460	115	<1	75-125	<20

QC Batch No: 120313IB1; Dup or Spiked Sample: 71465.01; LCS: Clean Sand; QC Prepared: 12/03/2013; QC Analyzed: 12/03/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0600	121	75-125						
Benzo(a)pyrene	0.0500	0.0600	112	75-125						
Naphthalene	0.500	0.550	110	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.590	119	75-125						
Acenaphthylene	1.00	1.08	108	75-125						
Anthracene	0.0500	0.0600	115	75-125						
Benzo(b)fluoranthene	0.100	0.120	116	75-125						
Benzo(g,h,i)perylene	0.100	0.120	119	75-125						
Benzo(k)fluoranthene	0.0500	0.0600	120	75-125						
Chrysene	0.0500	0.0600	125	75-125						
Dibenzo(a,h)anthracene	0.100	0.120	123	75-125						
Fluoranthene	0.100	0.120	123	75-125						
Fluorene	0.100	0.100	101	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	104	75-125						
Phenanthrene	0.0500	0.0600	122	75-125						
Pyrene	0.0500	0.0600	116	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.468	117	75-125						



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 9

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71496	12/02/2013	SC/G

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 120313DB1; Dup or Spiked Sample: 71496.01; LCS: Clean Sand; QC Prepared: 12/03/2013; QC Analyzed: 12/03/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	507	101	500	508	102	<1	75-125	<20
<b>Surrogates</b>										
Chlorobenzene	0.00	100	95.1	95.1	100	99.2	99.2	4.31	75-125	<20

QC Batch No: 120313DB1; Dup or Spiked Sample: 71496.01; LCS: Clean Sand; QC Prepared: 12/03/2013; QC Analyzed: 12/03/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Diesel (C13-C22)	500	517	103	500	512	102	<1	75-125	<20
<b>Surrogates</b>									
Chlorobenzene	100	101	101	100	101	101	<1	75-125	<20



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 10

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71496	12/02/2013	SC/G

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 120513NB1; LCS: Clean Sand; LCS Prepared: 12/05/2013; LCS Analyzed: 12/05/2013; Units: mg/Kg

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.980	98.2	1.00	0.920	92.0	6.52	75-125	<20	
<b>Surrogates</b>										
Bromofluorobenzene	0.0500	0.0455	91.0	0.0500	0.0479	95.8	5.27	75-125	<20	



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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---



## American Environmental Testing Laboratory Inc.

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### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Number of Pages 9  
Date Received 12/12/2013  
Date Reported 12/19/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71620	12/12/2013	SC/G

Project ID: ALAMEDA  
Project Name: Former Alameda MGP Site  
Site: 732 S Alameda Street  
Los Angeles, CA 90021

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_\_

Approved By: \_\_\_\_\_

Cyrus Razmara, Ph.D.  
Laboratory Director



American Environmental Testing Laboratory Inc.  
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# CHAIN OF CUSTODY RECORD

No. 79293

71620

Page 1 of 1

COMPANY <u>Socal Gas</u>		PROJECT MANAGER <u>Mathew Chyne</u>	
COMPANY ADDRESS <u>555 West 5th St., Los Angeles, CA</u>		PHONE	FAX
PROJECT NAME <u>Foin Alameda Blvd - off-ramp</u>		PROJECT #	
SITE NAME AND ADDRESS <u>F32 South Alameda St.</u>		PO #	
<u>LA Angeles, CA</u>			

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	FH20.0	12/12/13	1130	SOL	3/4oz	-
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY		RELINQUISHED BY SAMPLER:	
TOTAL NUMBER OF CONTAINERS <u>3</u>	PROPERLY COOLED Y/N/NA	Signature: _____	1.
CUSTOMY SEALS Y/N/NA	SAMPLES INTACT Y/N/NA	Printed Name: <u>John D. Bean</u>	2.
RECEIVED IN GOOD COND Y/N	SAMPLES ACCEPTED Y/N	Date: <u>12/12/13</u> Time: <u>1250</u>	3.
TURN AROUND TIME		RECEIVED BY:	
<input checked="" type="checkbox"/> NORMAL	<input type="checkbox"/> RUSH	<input type="checkbox"/> SAME DAY	Signature: _____
		<input type="checkbox"/> NEXT DAY	Printed Name: _____
		<input type="checkbox"/> 2 DAYS	Date: <u>12/12/13</u> Time: _____
		<input type="checkbox"/> 3 DAYS	

ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS
+	+	+	TRM - gas + dmv	

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



# American Environmental Testing Laboratory Inc.

2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181

Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Page: 1 A

### Ordered By

Southern California Gas Company  
555 W. 5th St.-GT17E3  
Los Angeles, CA 90013-1011

Project ID: ALAMEDA  
Date Received 12/12/2013  
Date Reported 12/19/2013

Telephone: (213)244-5832  
Attention: Kathleen Cheyne

Job Number	Order Date	Client
71620	12/12/2013	SC/G

## CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 1 samples with the following specification on 12/12/2013.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
71620.01	S3-121213	12/12/2013	Soil	3
Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	12/19/2013	2	Normal	mg/Kg
(8310)	12/19/2013	2	Normal	mg/Kg
(M8015D) ^ C13-C40	12/19/2013	2	Normal	mg/Kg
(M8015G)	12/19/2013	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Checked By: 

Approved By: 

Cyrus Razmara, Ph.D.  
Laboratory Director





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## ANALYTICAL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 2

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71620	12/12/2013	SC/G

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 121213NB3

<b>Our Lab I.D.</b>			Method Blank	<b>71620.01</b>			
Client Sample I.D.				S3-121213			
Date Sampled				12/12/2013			
Date Prepared			12/12/2013	12/12/2013			
Preparation Method			5030	5030			
Date Analyzed			12/13/2013	12/14/2013			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>			
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND			
<b>Our Lab I.D.</b>			Method Blank	<b>71620.01</b>			
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>			
Bromofluorobenzene	75-125		96.0	101			



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## ANALYTICAL RESULTS

### Ordered By

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### Site

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Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 3

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71620	12/12/2013	SC/G

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 121313DB1

<b>Our Lab I.D.</b>			Method Blank	<b>71620.01</b>		
Client Sample I.D.				S3-121213		
Date Sampled				12/12/2013		
Date Prepared			12/13/2013	12/13/2013		
Preparation Method			3550B	3550B		
Date Analyzed			12/13/2013	12/13/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
<b>Analytes</b>	<b>MDL</b>	<b>PQL</b>	<b>Results</b>	<b>Results</b>		
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND		
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND		
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND		
<b>Our Lab I.D.</b>			Method Blank	<b>71620.01</b>		
<b>Surrogates</b>	<b>%Rec.Limit</b>		<b>% Rec.</b>	<b>% Rec.</b>		
Chlorobenzene	75-125		105	103		



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## ANALYTICAL RESULTS

### Ordered By

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### Site

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 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 4

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71620	12/12/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 121313IB1

Our Lab I.D.			Method Blank	71620.01		
Client Sample I.D.				S3-121213		
Date Sampled				12/12/2013		
Date Prepared			12/13/2013	12/13/2013		
Preparation Method			3550B	3550B		
Date Analyzed			12/13/2013	12/13/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Benzo(a)anthracene	0.010	0.020	ND	ND		
Benzo(a)pyrene	0.010	0.020	ND	ND		
Benzo(b)fluoranthene	0.010	0.020	ND	ND		
Benzo(k)fluoranthene	0.010	0.020	ND	ND		
Chrysene	0.010	0.020	ND	ND		
Dibenzo(a,h)anthracene	0.010	0.020	ND	ND		
Indeno(1,2,3-cd)pyrene	0.010	0.020	ND	ND		
Acenaphthene	0.010	0.020	ND	ND		
Acenaphthylene	0.010	0.020	ND	ND		
Anthracene	0.010	0.020	ND	ND		
Benzo(g,h,i)perylene	0.010	0.020	ND	ND		
Fluoranthene	0.010	0.020	ND	ND		
Fluorene	0.010	0.020	ND	ND		
Naphthalene	0.010	0.020	ND	ND		
Phenanthrene	0.010	0.020	ND	ND		
Pyrene	0.010	0.020	ND	ND		
Our Lab I.D.			Method Blank	71620.01		
Surrogates	%Rec.Limit		% Rec.	% Rec.		
p-Terphenyl-D14	75-125		118	115		



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## ANALYTICAL RESULTS

### Ordered By

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 Los Angeles, CA 90013-1011

### Site

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Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 5

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71620	12/12/2013	SC/G

Method: (6010B/7000CAM), CAM Title 22 Metals (SW-846)

QC Batch No: 1212132C2

Our Lab I.D.			Method Blank	71620.01		
Client Sample I.D.				S3-121213		
Date Sampled				12/12/2013		
Date Prepared			12/12/2013	12/12/2013		
Preparation Method			3050B	3050B		
Date Analyzed			12/13/2013	12/13/2013		
Matrix			Soil	Soil		
Units			mg/Kg	mg/Kg		
Dilution Factor			1	1		
Analytes	MDL	PQL	Results	Results		
Antimony	1.0	5.0	ND	ND		
Arsenic	1.0	5.0	ND	ND		
Barium	2.5	5.0	ND	48.9		
Beryllium	1.3	2.5	ND	ND		
Cadmium	1.3	2.5	ND	ND		
Chromium	2.5	5.0	ND	11.2		
Cobalt	2.5	5.0	ND	4.52J		
Copper	2.5	5.0	ND	7.31		
Lead	2.5	5.0	ND	ND		
Mercury (By EPA 7471)	0.1	0.2	ND	ND		
Molybdenum	2.5	5.0	ND	ND		
Nickel	2.5	5.0	ND	6.81		
Selenium	1.0	5.0	ND	ND		
Silver	2.5	5.0	ND	ND		
Thallium	1.0	5.0	ND	ND		
Vanadium	2.5	5.0	ND	23.1		
Zinc	2.5	5.0	ND	18.0		



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 6

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71620	12/12/2013	SC/G

Method: (6010B/7000CAM), CAM Title 22 Metals (SW-846)

QC Batch No: 1212132C2; Dup or Spiked Sample: 71620.01; LCS: Clean Sand; LCS Prepared: 12/12/2013; LCS Analyzed: 12/13/2013;  
 Units: mg/Kg

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Antimony	50.0	45.6	91.2	50.0	45.9	91.8	<1	75-125	<15	
Arsenic	50.0	45.3	90.6	50.0	45.9	91.8	1.32	75-125	<15	
Barium	50.0	46.7	93.4	50.0	47.0	94.0	<1	75-125	<15	
Beryllium	50.0	49.7	99.4	50.0	50.1	100	<1	75-125	<15	
Cadmium	50.0	44.4	88.8	50.0	45.4	90.8	2.23	75-125	<15	
Chromium	50.0	46.2	92.4	50.0	46.9	93.8	1.50	75-125	<15	
Cobalt	50.0	47.0	94.0	50.0	47.1	94.2	<1	75-125	<15	
Copper	50.0	45.0	90.0	50.0	45.4	90.8	<1	75-125	<15	
Lead	50.0	45.9	91.8	50.0	46.5	93.0	1.30	75-125	<15	
Mercury (By EPA 7471)	0.500	0.510	102	0.500	0.510	102	<1	75-125	<15	
Molybdenum	50.0	47.5	95.0	50.0	47.7	95.4	<1	75-125	<15	
Nickel	50.0	45.5	91.0	50.0	46.1	92.2	1.31	75-125	<15	
Selenium	50.0	43.7	87.4	50.0	45.1	90.2	3.15	75-125	<15	
Silver	50.0	51.7	103	50.0	51.2	102	<1	75-125	<15	
Thallium	50.0	46.6	93.2	50.0	46.9	93.8	<1	75-125	<15	
Vanadium	50.0	46.6	93.2	50.0	47.2	94.4	1.28	75-125	<15	
Zinc	50.0	40.9	81.8	50.0	41.8	83.6	2.18	75-125	<15	



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## QUALITY CONTROL RESULTS

### Ordered By

Southern California Gas Company  
 555 W. 5th St.-GT17E3  
 Los Angeles, CA 90013-1011

### Site

732 S Alameda Street  
 Los Angeles, CA 90021

Telephone: (213)244-5832

Attn: Kathleen Cheyne

Page: 7

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71620	12/12/2013	SC/G

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 121313IB1; Dup or Spiked Sample: 71619.01; LCS: Clean Sand; QC Prepared: 12/13/2013; QC Analyzed: 12/13/2013;  
 Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0600	119	0.0500	0.0600	122	2.49	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0500	109	0.0500	0.0600	112	2.71	75-125	<20
Naphthalene	0.00100	0.500	0.530	106	0.500	0.540	108	1.87	75-125	<20
<b>Surrogates</b>										
p-Terphenyl-D14	0.00	0.400	0.440	110	0.400	0.449	112	1.82	75-125	<20

QC Batch No: 121313IB1; Dup or Spiked Sample: 71619.01; LCS: Clean Sand; QC Prepared: 12/13/2013; QC Analyzed: 12/13/2013;  
 Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Benzo(a)anthracene	0.0500	0.0500	107	75-125						
Benzo(a)pyrene	0.0500	0.0600	113	75-125						
Naphthalene	0.500	0.560	112	75-125						
<b>LCS</b>										
Acenaphthene	0.500	0.600	120	75-125						
Acenaphthylene	1.00	1.05	105	75-125						
Anthracene	0.0500	0.0600	111	75-125						
Benzo(b)fluoranthene	0.100	0.120	116	75-125						
Benzo(g,h,i)perylene	0.100	0.110	109	75-125						
Benzo(k)fluoranthene	0.0500	0.0600	119	75-125						
Chrysene	0.0500	0.0600	124	75-125						
Dibenzo(a,h)anthracene	0.100	0.120	124	75-125						
Fluoranthene	0.100	0.120	120	75-125						
Fluorene	0.100	0.100	104	75-125						
Indeno(1,2,3-cd)pyrene	0.0500	0.0500	106	75-125						
Phenanthrene	0.0500	0.0600	121	75-125						
Pyrene	0.0500	0.0600	120	75-125						
<b>Surrogates</b>										
p-Terphenyl-D14	0.400	0.472	118	75-125						



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## QUALITY CONTROL RESULTS

### Ordered By

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Page: 8

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71620	12/12/2013	SC/G

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 121313DB1; Dup or Spiked Sample: 71598.27; LCS: Clean Sand; QC Prepared: 12/13/2013; MS Analyzed: 12/14/2013;  
 LCS Analyzed: 12/13/2013; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	519	104	500	497	99.4	4.52	75-125	<20
<b>Surrogates</b>										
Chlorobenzene	0.00	100	103	103	100	103	103	<1	75-125	<20

QC Batch No: 121313DB1; Dup or Spiked Sample: 71598.27; LCS: Clean Sand; QC Prepared: 12/13/2013; MS Analyzed: 12/14/2013;  
 LCS Analyzed: 12/13/2013; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Diesel (C13-C22)	500	483	96.6	500	485	97.0	<1	75-125	<20
<b>Surrogates</b>									
Chlorobenzene	100	96.9	96.9	100	98.6	98.6	1.75	75-125	<20



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### Ordered By

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Attn: Kathleen Cheyne

Page: 9

Project ID: ALAMEDA

Project Name: Former Alameda MGP Site

AETL Job Number	Submitted	Client
71620	12/12/2013	SC/G

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 121213NB3; Dup or Spiked Sample: 71620.01AGA; LCS: Clean Sand; QC Prepared: 12/12/2013; MS Analyzed: 12/14/2013;  
 LCS Analyzed: 12/13/2013; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.0385	1.00	0.861	82.2	1.00	0.899	86.0	4.5	75-125	<20
<b>Surrogates</b>										
Bromofluorobenzene	0.00	0.0500	0.0493	98.6	0.0500	0.0495	99.0	<1	75-125	<20

QC Batch No: 121213NB3; Dup or Spiked Sample: 71620.01AGA; LCS: Clean Sand; QC Prepared: 12/12/2013; MS Analyzed: 12/14/2013;  
 LCS Analyzed: 12/13/2013; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.937	93.7	1.00	0.995	99.5	6.0	75-125	<20
<b>Surrogates</b>									
Bromofluorobenzene	0.0500	0.0472	94.4	0.0500	0.0557	111	17.6	75-125	<20





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### Data Qualifiers and Descriptors

#### ***Data Qualifier:***

- #: Recovery is not within acceptable control limits.
- \*: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

#### ***Definition:***

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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### Data Qualifiers and Descriptors

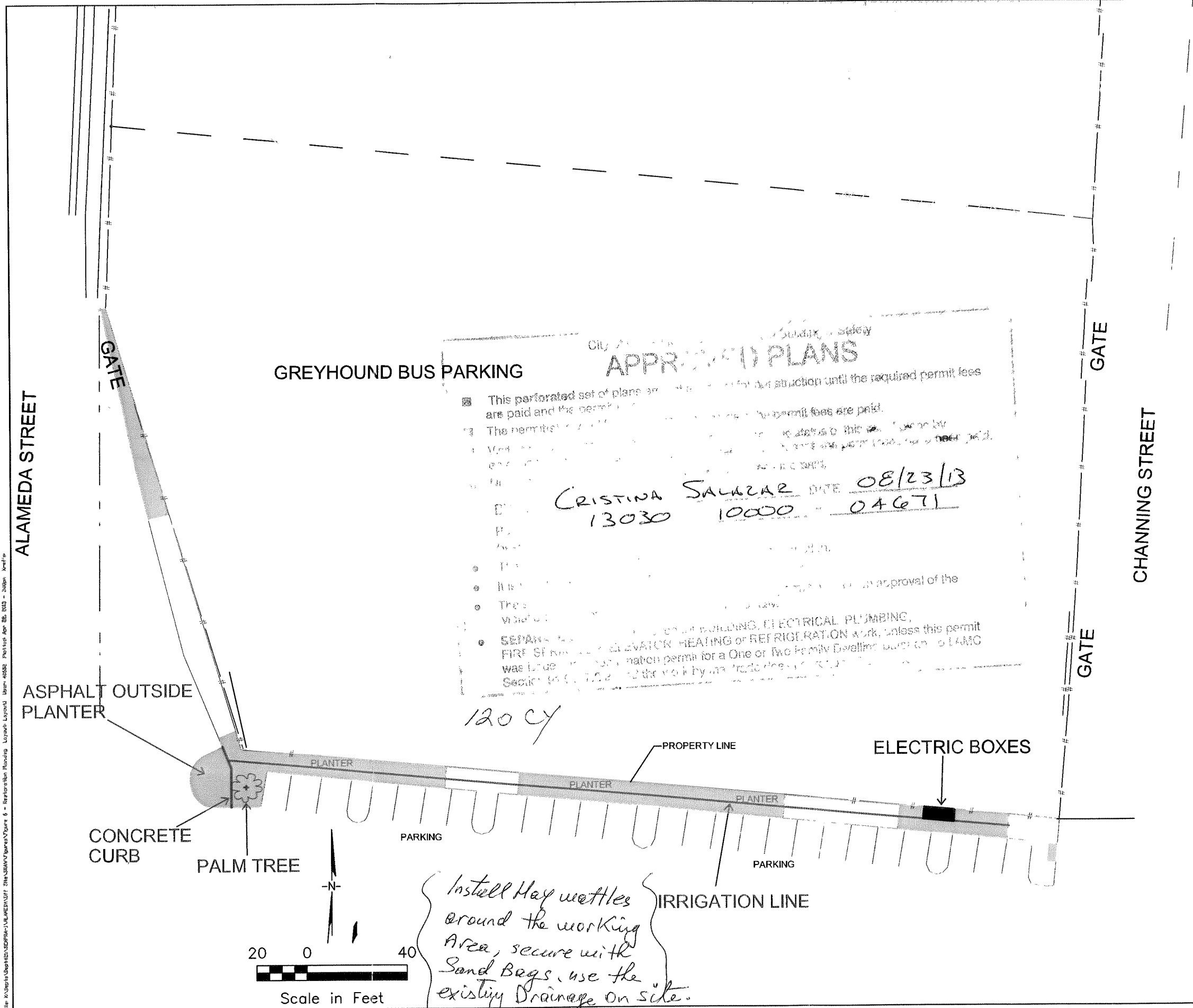
MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

---

**Attachment J**

**LABDS Grading Permit**

File: R:\Projects\Operations\SEPP\13\ALAMEDA\13\13-0001\13-0001-0001\13-0001-0001-0001.dwg Plot Date: 8/22/2013 10:00:00 AM



GREYHOUND BUS PARKING

APPROVED PLANS

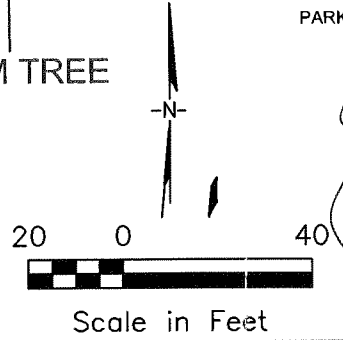
Cristina Salazar DATE 08/23/13  
13030 10000 04671

This perforated set of plans are for construction until the required permit fees are paid and the permit is issued. The permit fees are paid to the City of Pasadena. The permit fees are not to be used for any other purpose. The permit fees are not to be used for any other purpose. The permit fees are not to be used for any other purpose.

SEPARATE PERMITS ARE REQUIRED FOR BUILDING, ELECTRICAL PLUMBING, FIRE SPRINKLER, ELEVATOR, HEATING OR REFRIGERATION work. Unless this permit was issued for a separate permit for a One or Two Family Dwelling under the LAMC Section 17.02.02, the work by an trades shall require a separate permit.

120 cy

- LEGEND:**
- LOCATION OF HISTORIC MGP STRUCTURES
  - PROPOSED EXCAVATION AREAS 0-3 FT
  - CHAIN LINK FENCE SEPARATING NORTH AND CENTRAL PORTIONS OF THE SITE
  - SITE BOUNDARY
  - ALL ITEMS DRAWN/ LABELED IN THE COLOR GREEN ARE TO BE REMOVED AND REPLACED IN KIND AFTER REMEDIATION
- NOTES:**
- 1) REMOVE AND REPLACE BOLLARDS AS NEEDED.
  - 2) PROTECT ALL UTILITY VAULTS IN PLACE.
  - 3) PROTECT CYPRESS TREES IN PLACE.
  - 4) PROTECT ELECTRIC POLES IN PLACE.
  - 5) PROTECT FENCE IN PLACE.
  - 6) BURIED RAILROAD TIES AND SPURS WILL BE REMOVED IF REQUIRED.
  - 7) COMPACTION IS REQUIRED FOR EXCAVATION AREAS DEEPER THAN 2 FEET.
  - 8) COMPACTION TESTING IS REQUIRED FOR EXCAVATION AREAS DEEPER THAN 3 FEET.
  - 9) BACKFILL EXCAVATION AREAS WITH SOIL TOP AND MULCH, OR QUARRY CLEAN SOIL AND MULCH.
  - 10) DEMOLISHED ASPHALT AND CURBS WILL BE REPLACED IN KIND.
  - 11) REMEDIATION WORK WILL BE PERFORMED OUTSIDE OF PEAK HOURS (AFTER 1 PM).
  - 12) ALL SHRUBS WILL BE REPLACED WITH BIRDS OF PARADISE PLANTS OR EQUIVALENT.



Install Hay wattles around the working Area, secure with Sand Bags, use the existing Drainage on site.

RTI AUG 22 2013  
1/1

**Figure 6**  
**Site Restoration Plan**

Southern California Gas Company  
Former Alameda Street MGP Site

**PARSONS**  
Pasadena, CA

8.22.2013



Grading Commercial Plan Check at Counter Plan Check	City of Los Angeles - Department of Building and Safety <b>APPLICATION FOR GRADING PERMIT AND GRADING CERTIFICATE</b>	Issued on: 08/23/2013 Last Status: Issued Status Date: 08/23/2013
--	--	---

TRACT	BLOCK	LOT(s)	ARD	COUNTY MAP REF #	PARCEL ID # (PIN #)	ASSESSOR PARCEL #
TR 52046-01		3		M B 1225-28/29	123A215 195	5166 - 032 - 014

<b>3. PARCEL INFORMATION</b> Area Planning Commission - Central LADBS Branch Office - LA Council District - 14 Cmpt. Fill Grd. - CFG-1500 Certified Neighborhood Council - Downtown Los Angeles	Community Plan Area - Central City North Census Tract - 2060.31 Energy Zone - 9 Fire District - 2 Methane Hazard Site - Methane Zone	Near Source Zone Distance - .8 Parking Dist. - CCPD School Within 500 Foot Radius - YES Thomas Brothers Map Grid - 634-G6
--	--	--

ZONES(S): M3-1

<b>4. DOCUMENTS</b> ZI - ZI-2129 EAST LOS ANGELES STATE E CPC - CPC-1997-423 ORD - ORD-164855-SA2330 CPC - CPC-1986-607-GPC CPC - CPC-1995-352-CPU	CPC - CPC-2007-3036-RIO CPC - CPC-2008-3125-CA CDBG - LARZ-Central City	CDBG - SEZ-EAST LOS ANGELES STATE AFF - AF-94-2094735-GCA AFF - OB-11148 AFF - OB-12336
--	---	--

**5. CHECKLIST ITEMS**

**6. PROPERTY OWNER, TENANT, APPLICANT INFORMATION**

Owner(s):  
 LIM, CHANG Y AND MEE H TRS LIM FAMILY TRUST  
 4625 DISTRICT BLVD, VERNON CA 90058 --

Tenant:

Applicant: (Relationship: Contractor)  
 HANK ODASASHIAN -  
 11080 TUXFORD ST, SUN VALLEY, CA 91352 -- (818) 768-9222

For Cashier's Use Only

W/O #: 33004671

<b>7. EXISTING USE</b>	<b>PROPOSED USE</b>
	(60) Grading - Non-Hillside

**8. DESCRIPTION OF WORK**

REMOVE CONTAMINATED SOIL AND REPLACE WITH THE PLANTER SOIL AT (E) PLANTER. EXCAVATION DEPTH SHALL BE 0' TO 3'. ALL WORK TO BE PERFORMED INSIDE THE PROPERTY.

9. # Bldgs on Site & Use:

**10. APPLICATION PROCESSING INFORMATION**

BLDG. PC By: Bok Goh  
 OK for Cashier: Ronald Allen  
 Signature:

DAS PC By:  
 Coord. OK:  
 Date: 08/23/2013

LA 0014 103018422 8/23/2013 11:57:09 AM	
GRADING PERMIT	\$295.00
GRADING PLAN CHECK	\$0.00
ONE STOP SURCH	\$5.90
SYSTEMS DEVT FEE	\$17.70
CITY PLANNING SURCH	\$17.70
MISCELLANEOUS	\$10.00
PLANNING GEN PLAN MAINT SURCH	\$14.75
GRADING PLAN CHECK	\$0.00
<b>Sub Total:</b>	<b>\$361.05</b>

**11. PROJECT VALUATION** Final Fee Period

Permit Valuation: 120 cu yd	PC Valuation:
Sewer Cap ID:	Total Bond(s) Due:

**12. ATTACHMENTS**

Plot Plan

For inspection requests, call toll-free (888) LA4BUILD (524-2845). Outside LA County, call (213) 482-0000 or request inspections via [www.ladbs.org](http://www.ladbs.org). To speak to a Call Center agent, call 311 or (866) 4LACITY (452-2489). Outside LA County, call (213) 473-3231.



Permit #: 130301000004671  
 Receipt #: 0103192781  
 Building Card #: 2013LA20900



City of Los Angeles  
COMPACTION REPORT APPROVAL LIST  
FOR SECONDARY STRUCTURAL FILL

LOG# 83254-1 DATE 3-6-14 COMPACTION FILE - 5

JOB ADDRESS 732 S. ALAMEDA ST. DISTRICT OFFICE METRO

TRACT 52046-01 COUNTY REF. # \_\_\_\_\_

BLOCK \_\_\_\_\_ PERMIT No. 13030-10000-04671

LOT 3 ARB \_\_\_\_\_

FILL SOILS CLASSIFICATION, PER TABLE 18.1.A : SILTY SAND

REPORT PREPARED BY: GEOTECHNICAL SOLUTIONS, INC. DATED 2-27-14

REPORT #: \_\_\_\_\_

OVERSIZED DOCUMENTS X-REF \_\_\_\_\_ DATED \_\_\_\_\_

REVIEWED BY JOHNNY KAZARIAN TELEPHONE 213-482-0398

The compaction report(s) have been reviewed by the Grading Section of the Department and have been found to be acceptable provided the proposed construction complies with the conditions specified in this letter. The approval of the reports does not permit the violation of any section of the Building Code, or other local ordinance or state law.

NOTE: Numbers in parenthesis ( ) refer to Code sections of the 2011 edition of the California Building Code, Information Bulletin (P/BC).

**INSTRUCTIONS**

• All of the following listed and circled conditions shall apply: 1

CONDITIONS FOR SECONDARY STRUCTURAL FILL:

1. This fill may be used for the support of floor slabs and pavement. However, the fill is not approved for the support of structural footings.
2. Planting and irrigation of cut and fill slopes in hillside areas is required per Code Section 91.7012 of the Los Angeles City Building Code.
3. Interim report only.

**Attachment K**  
**Data Statistical Evaluation**

# Offsite Excavation Area Soil

## UCL Statistics for Data Sets with Non-Detects

User Selected Options  
 Date/Time of Computation 2/25/2014 2:55:02 PM  
 From File ProUCL\_Offsite.xls  
 Full Precision OFF  
 Confidence Coefficient 95%  
 Number of Bootstrap Operations 2000

### Chemical (benzo(a)anthracene)

#### General Statistics

Total Number of Observations	75	Number of Distinct Observations	30
Number of Detects	27	Number of Non-Detects	48
Number of Distinct Detects	27	Number of Distinct Non-Detects	3
Minimum Detect	0.0111	Minimum Non-Detect	0.01
Maximum Detect	39.5	Maximum Non-Detect	0.1
Variance Detects	57.37	Percent Non-Detects	64%
Mean Detects	1.605	SD Detects	7.575
Median Detects	0.0926	CV Detects	4.72
Skewness Detects	5.194	Kurtosis Detects	26.98
Mean of Logged Detects	-2.12	SD of Logged Detects	1.544

#### Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.21	<b>Shapiro Wilk GOF Test</b>
5% Shapiro Wilk Critical Value	0.923	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.519	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.171	Detected Data Not Normal at 5% Significance Level

**Detected Data Not Normal at 5% Significance Level**

#### Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	0.585	Standard Error of Mean	0.532
SD	4.525	95% KM (BCA) UCL	1.644
95% KM (t) UCL	1.472	95% KM (Percentile Bootstrap) UCL	1.635
95% KM (z) UCL	1.46	95% KM Bootstrap t UCL	31.15
90% KM Chebyshev UCL	2.182	95% KM Chebyshev UCL	2.905
97.5% KM Chebyshev UCL	3.91	99% KM Chebyshev UCL	5.882

#### Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	5.792	<b>Anderson-Darling GOF Test</b>
5% A-D Critical Value	0.867	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.402	<b>Kolmogrov-Smirnov GOF</b>
5% K-S Critical Value	0.184	Detected Data Not Gamma Distributed at 5% Significance Level

**Detected Data Not Gamma Distributed at 5% Significance Level**

#### Gamma Statistics on Detected Data Only

k hat (MLE)	0.27	k star (bias corrected MLE)	0.265
Theta hat (MLE)	5.934	Theta star (bias corrected MLE)	6.054
nu hat (MLE)	14.6	nu star (bias corrected)	14.31
MLE Mean (bias corrected)	1.605	MLE Sd (bias corrected)	3.117

#### Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0167	nu hat (KM)	2.504
Approximate Chi Square Value (2.50, $\alpha$ )	0.242	Adjusted Chi Square Value (2.50, $\beta$ )	0.232
95% Gamma Approximate KM-UCL (use when $n \geq 50$ )	6.049	95% Gamma Adjusted KM-UCL (use when $n < 50$ )	6.311

Gamma (KM) may not be used when k hat (KM) is < 0.1

#### Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs



## Offsite Excavation Area Soil

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.584
Maximum	39.5	Median	0.01
SD	4.555	CV	7.799
k hat (MLE)	0.227	k star (bias corrected MLE)	0.227
Theta hat (MLE)	2.57	Theta star (bias corrected MLE)	2.572
nu hat (MLE)	34.1	nu star (bias corrected)	34.07
MLE Mean (bias corrected)	0.584	MLE Sd (bias corrected)	1.226
		Adjusted Level of Significance ( $\beta$ )	0.0468
Approximate Chi Square Value (34.07, $\alpha$ )	21.72	Adjusted Chi Square Value (34.07, $\beta$ )	21.52
95% Gamma Approximate UCL (use when $n \geq 50$ )	0.916	95% Gamma Adjusted UCL (use when $n < 50$ )	0.924

### Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.838	<b>Shapiro Wilk GOF Test</b>	
5% Shapiro Wilk Critical Value	0.923	Detected Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.152	<b>Lilliefors GOF Test</b>	
5% Lilliefors Critical Value	0.171	Detected Data appear Lognormal at 5% Significance Level	

**Detected Data appear Approximate Lognormal at 5% Significance Level**

### Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.58	Mean in Log Scale	-4.871
SD in Original Scale	4.556	SD in Log Scale	2.638
95% t UCL (assumes normality of ROS data)	1.457	95% Percentile Bootstrap UCL	1.628
95% BCA Bootstrap UCL	2.172	95% Bootstrap t UCL	30.68
95% H-UCL (Log ROS)	0.92		

### UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	-3.694	95% H-UCL (KM -Log)	0.125
KM SD (logged)	1.5	95% Critical H Value (KM-Log)	2.801
KM Standard Error of Mean (logged)	0.178		

### DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	0.583	Mean in Log Scale	-4.041
SD in Original Scale	4.556	SD in Log Scale	1.78
95% t UCL (Assumes normality)	1.459	95% H-Stat UCL	0.164

**DL/2 is not a recommended method, provided for comparisons and historical reasons**

### Nonparametric Distribution Free UCL Statistics

**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**

### Suggested UCL to Use

95% KM (Chebyshev) UCL     2.905

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

### Chemical (benzo(a)pyrene)

#### General Statistics

Total Number of Observations	75	Number of Distinct Observations	37
Number of Detects	37	Number of Non-Detects	38
Number of Distinct Detects	36	Number of Distinct Non-Detects	1
Minimum Detect	0.0152	Minimum Non-Detect	0.01
Maximum Detect	62.6	Maximum Non-Detect	0.01

# Offsite Excavation Area Soil

Variance Detects	105	Percent Non-Detects	50.67%
Mean Detects	1.986	SD Detects	10.24
Median Detects	0.255	CV Detects	5.159
Skewness Detects	6.077	Kurtosis Detects	36.95
Mean of Logged Detects	-1.63	SD of Logged Detects	1.605

### Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.186	<b>Shapiro Wilk GOF Test</b>
5% Shapiro Wilk Critical Value	0.936	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.516	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.146	Detected Data Not Normal at 5% Significance Level

**Detected Data Not Normal at 5% Significance Level**

### Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	0.985	Standard Error of Mean	0.839
SD	7.166	95% KM (BCA) UCL	2.672
95% KM (t) UCL	2.382	95% KM (Percentile Bootstrap) UCL	2.634
95% KM (z) UCL	2.365	95% KM Bootstrap t UCL	31.37
90% KM Chebyshev UCL	3.502	<b>95% KM Chebyshev UCL</b>	<b>4.642</b>
97.5% KM Chebyshev UCL	6.224	99% KM Chebyshev UCL	9.332

### Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	6.004	<b>Anderson-Darling GOF Test</b>
5% A-D Critical Value	0.858	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.382	<b>Kolmogrov-Smirnov GOF</b>
5% K-S Critical Value	0.157	Detected Data Not Gamma Distributed at 5% Significance Level

**Detected Data Not Gamma Distributed at 5% Significance Level**

### Gamma Statistics on Detected Data Only

k hat (MLE)	0.298	k star (bias corrected MLE)	0.292
Theta hat (MLE)	6.664	Theta star (bias corrected MLE)	6.804
nu hat (MLE)	22.05	nu star (bias corrected)	21.6
MLE Mean (bias corrected)	1.986	MLE Sd (bias corrected)	3.676

### Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0189	nu hat (KM)	2.833
Approximate Chi Square Value (2.83, $\alpha$ )	0.325	Adjusted Chi Square Value (2.83, $\beta$ )	0.311
95% Gamma Approximate KM-UCL (use when $n \geq 50$ )	8.593	95% Gamma Adjusted KM-UCL (use when $n < 50$ )	8.966

Gamma (KM) may not be used when k hat (KM) is < 0.1

### Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.985
Maximum	62.6	Median	0.01
SD	7.215	CV	7.326
k hat (MLE)	0.23	k star (bias corrected MLE)	0.23
Theta hat (MLE)	4.273	Theta star (bias corrected MLE)	4.279
nu hat (MLE)	34.57	nu star (bias corrected)	34.52
MLE Mean (bias corrected)	0.985	MLE Sd (bias corrected)	2.053
		Adjusted Level of Significance ( $\beta$ )	0.0468
Approximate Chi Square Value (34.52, $\alpha$ )	22.08	Adjusted Chi Square Value (34.52, $\beta$ )	21.89
95% Gamma Approximate UCL (use when $n \geq 50$ )	1.54	95% Gamma Adjusted UCL (use when $n < 50$ )	1.553

### Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.891	<b>Shapiro Wilk GOF Test</b>
5% Shapiro Wilk Critical Value	0.936	Detected Data Not Lognormal at 5% Significance Level

## Offsite Excavation Area Soil

Lilliefors Test Statistic	0.148	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.146	Detected Data Not Lognormal at 5% Significance Level

**Detected Data Not Lognormal at 5% Significance Level**

### Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.983	Mean in Log Scale	-3.721
SD in Original Scale	7.215	SD in Log Scale	2.585
95% t UCL (assumes normality of ROS data)	2.371	95% Percentile Bootstrap UCL	2.649
95% BCA Bootstrap UCL	3.51	95% Bootstrap t UCL	32.09
95% H-UCL (Log ROS)	2.413		

### DL/2 Statistics

<b>DL/2 Normal</b>		<b>DL/2 Log-Transformed</b>	
Mean in Original Scale	0.982	Mean in Log Scale	-3.489
SD in Original Scale	7.215	SD in Log Scale	2.159
95% t UCL (Assumes normality)	2.37	95% H-Stat UCL	0.781

**DL/2 is not a recommended method, provided for comparisons and historical reasons**

### Nonparametric Distribution Free UCL Statistics

**Data do not follow a Discernible Distribution at 5% Significance Level**

### Suggested UCL to Use

95% KM (Chebyshev) UCL    4.642

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

### Chemical (benzo(b)fluoranthene)

#### General Statistics

Total Number of Observations	75	Number of Distinct Observations	37
Number of Detects	35	Number of Non-Detects	40
Number of Distinct Detects	35	Number of Distinct Non-Detects	2
Minimum Detect	0.011	Minimum Non-Detect	0.01
Maximum Detect	37.4	Maximum Non-Detect	0.05
Variance Detects	39.57	Percent Non-Detects	53.33%
Mean Detects	1.263	SD Detects	6.29
Median Detects	0.199	CV Detects	4.98
Skewness Detects	5.91	Kurtosis Detects	34.95
Mean of Logged Detects	-1.998	SD of Logged Detects	1.574

#### Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.192	<b>Shapiro Wilk GOF Test</b>
5% Shapiro Wilk Critical Value	0.934	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.515	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.15	Detected Data Not Normal at 5% Significance Level

**Detected Data Not Normal at 5% Significance Level**

#### Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	0.595	Standard Error of Mean	0.502
SD	4.281	95% KM (BCA) UCL	1.619
95% KM (t) UCL	1.43	95% KM (Percentile Bootstrap) UCL	1.588
95% KM (z) UCL	1.42	95% KM Bootstrap t UCL	18.12
90% KM Chebyshev UCL	2.099	95% KM Chebyshev UCL	2.781
97.5% KM Chebyshev UCL	3.727	99% KM Chebyshev UCL	5.585

#### Gamma GOF Tests on Detected Observations Only

# Offsite Excavation Area Soil

A-D Test Statistic	5.721	<b>Anderson-Darling GOF Test</b>
5% A-D Critical Value	0.855	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.381	<b>Kolmogrov-Smirnov GOF</b>
5% K-S Critical Value	0.161	Detected Data Not Gamma Distributed at 5% Significance Level

**Detected Data Not Gamma Distributed at 5% Significance Level**

### Gamma Statistics on Detected Data Only

k hat (MLE)	0.308	k star (bias corrected MLE)	0.3
Theta hat (MLE)	4.105	Theta star (bias corrected MLE)	4.205
nu hat (MLE)	21.54	nu star (bias corrected)	21.02
MLE Mean (bias corrected)	1.263	MLE Sd (bias corrected)	2.305

### Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0193	nu hat (KM)	2.896
Approximate Chi Square Value (2.90, $\alpha$ )	0.342	Adjusted Chi Square Value (2.90, $\beta$ )	0.328
95% Gamma Approximate KM-UCL (use when $n \geq 50$ )	5.034	95% Gamma Adjusted KM-UCL (use when $n < 50$ )	5.251

Gamma (KM) may not be used when k hat (KM) is < 0.1

### Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.595
Maximum	37.4	Median	0.01
SD	4.31	CV	7.246
k hat (MLE)	0.248	k star (bias corrected MLE)	0.247
Theta hat (MLE)	2.399	Theta star (bias corrected MLE)	2.409
nu hat (MLE)	37.19	nu star (bias corrected)	37.03
MLE Mean (bias corrected)	0.595	MLE Sd (bias corrected)	1.197
		Adjusted Level of Significance ( $\beta$ )	0.0468
Approximate Chi Square Value (37.03, $\alpha$ )	24.1	Adjusted Chi Square Value (37.03, $\beta$ )	23.9
95% Gamma Approximate UCL (use when $n \geq 50$ )	0.914	95% Gamma Adjusted UCL (use when $n < 50$ )	0.922

### Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.887	<b>Shapiro Wilk GOF Test</b>
5% Shapiro Wilk Critical Value	0.934	Detected Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.15	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.15	Detected Data Not Lognormal at 5% Significance Level

**Detected Data Not Lognormal at 5% Significance Level**

### Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.592	Mean in Log Scale	-4.183
SD in Original Scale	4.31	SD in Log Scale	2.56
95% t UCL (assumes normality of ROS data)	1.421	95% Percentile Bootstrap UCL	1.581
95% BCA Bootstrap UCL	2.115	95% Bootstrap t UCL	17.36
95% H-UCL (Log ROS)	1.395		

### DL/2 Statistics

<b>DL/2 Normal</b>		<b>DL/2 Log-Transformed</b>	
Mean in Original Scale	0.592	Mean in Log Scale	-3.737
SD in Original Scale	4.31	SD in Log Scale	1.963
95% t UCL (Assumes normality)	1.421	95% H-Stat UCL	0.353

**DL/2 is not a recommended method, provided for comparisons and historical reasons**

### Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

## Offsite Excavation Area Soil

95% KM (Chebyshev) UCL    2.781

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

### Chemical (benzo(g,h,i)perylene)

#### General Statistics

Total Number of Observations	75	Number of Distinct Observations	38
Number of Detects	35	Number of Non-Detects	40
Number of Distinct Detects	35	Number of Distinct Non-Detects	3
Minimum Detect	0.0126	Minimum Non-Detect	0.01
Maximum Detect	73.5	Maximum Non-Detect	0.1
Variance Detects	152.9	Percent Non-Detects	53.33%
Mean Detects	2.468	SD Detects	12.36
Median Detects	0.376	CV Detects	5.01
Skewness Detects	5.909	Kurtosis Detects	34.95
Mean of Logged Detects	-1.457	SD of Logged Detects	1.693

#### Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.192	<b>Shapiro Wilk GOF Test</b>	
5% Shapiro Wilk Critical Value	0.934	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.513	<b>Lilliefors GOF Test</b>	
5% Lilliefors Critical Value	0.15	Detected Data Not Normal at 5% Significance Level	

**Detected Data Not Normal at 5% Significance Level**

#### Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	1.157	Standard Error of Mean	0.986
SD	8.415	95% KM (BCA) UCL	3.137
95% KM (t) UCL	2.799	95% KM (Percentile Bootstrap) UCL	3.108
95% KM (z) UCL	2.779	95% KM Bootstrap t UCL	35.25
90% KM Chebyshev UCL	4.115	<b>95% KM Chebyshev UCL</b>	<b>5.454</b>
97.5% KM Chebyshev UCL	7.313	99% KM Chebyshev UCL	10.97

#### Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	5.384	<b>Anderson-Darling GOF Test</b>	
5% A-D Critical Value	0.86	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.365	<b>Kolmogrov-Smirnov GOF</b>	
5% K-S Critical Value	0.162	Detected Data Not Gamma Distributed at 5% Significance Level	

**Detected Data Not Gamma Distributed at 5% Significance Level**

#### Gamma Statistics on Detected Data Only

k hat (MLE)	0.293	k star (bias corrected MLE)	0.287
Theta hat (MLE)	8.415	Theta star (bias corrected MLE)	8.593
nu hat (MLE)	20.53	nu star (bias corrected)	20.1
MLE Mean (bias corrected)	2.468	MLE Sd (bias corrected)	4.605

#### Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0189	nu hat (KM)	2.836
Approximate Chi Square Value (2.84, $\alpha$ )	0.326	Adjusted Chi Square Value (2.84, $\beta$ )	0.312
95% Gamma Approximate KM-UCL (use when $n \geq 50$ )	10.08	95% Gamma Adjusted KM-UCL (use when $n < 50$ )	10.52

Gamma (KM) may not be used when k hat (KM) is < 0.1

#### Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

## Offsite Excavation Area Soil

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	1.157
Maximum	73.5	Median	0.01
SD	8.471	CV	7.322
k hat (MLE)	0.221	k star (bias corrected MLE)	0.221
Theta hat (MLE)	5.24	Theta star (bias corrected MLE)	5.239
nu hat (MLE)	33.12	nu star (bias corrected)	33.13
MLE Mean (bias corrected)	1.157	MLE Sd (bias corrected)	2.462
		Adjusted Level of Significance (β)	0.0468
Approximate Chi Square Value (33.13, α)	20.97	Adjusted Chi Square Value (33.13, β)	20.78
95% Gamma Approximate UCL (use when n>=50)	1.828	95% Gamma Adjusted UCL (use when n<50)	1.845

### Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.901	<b>Shapiro Wilk GOF Test</b>
5% Shapiro Wilk Critical Value	0.934	Detected Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.14	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.15	Detected Data appear Lognormal at 5% Significance Level

**Detected Data appear Approximate Lognormal at 5% Significance Level**

### Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	1.155	Mean in Log Scale	-3.8
SD in Original Scale	8.472	SD in Log Scale	2.742
95% t UCL (assumes normality of ROS data)	2.784	95% Percentile Bootstrap UCL	3.108
95% BCA Bootstrap UCL	4.107	95% Bootstrap t UCL	35.71
95% H-UCL (Log ROS)	3.922		

### UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	-3.13	95% H-UCL (KM -Log)	0.607
KM SD (logged)	1.938	95% Critical H Value (KM-Log)	3.341
KM Standard Error of Mean (logged)	0.227		

### DL/2 Statistics

<b>DL/2 Normal</b>		<b>DL/2 Log-Transformed</b>	
Mean in Original Scale	1.155	Mean in Log Scale	-3.453
SD in Original Scale	8.472	SD in Log Scale	2.226
95% t UCL (Assumes normality)	2.785	95% H-Stat UCL	0.985

**DL/2 is not a recommended method, provided for comparisons and historical reasons**

### Nonparametric Distribution Free UCL Statistics

**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**

### Suggested UCL to Use

95% KM (Chebyshev) UCL     5.454

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

### Chemical (benzo(k)fluoranthene)

#### General Statistics

Total Number of Observations	75	Number of Distinct Observations	32
Number of Detects	31	Number of Non-Detects	44
Number of Distinct Detects	30	Number of Distinct Non-Detects	2
Minimum Detect	0.011	Minimum Non-Detect	0.01
Maximum Detect	22.6	Maximum Non-Detect	0.05
Variance Detects	16.29	Percent Non-Detects	58.67%
Mean Detects	0.86	SD Detects	4.036

## Offsite Excavation Area Soil

Median Detects	0.133	CV Detects	4.694
Skewness Detects	5.563	Kurtosis Detects	30.96
Mean of Logged Detects	-2.204	SD of Logged Detects	1.412

### Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.202	<b>Shapiro Wilk GOF Test</b>	
5% Shapiro Wilk Critical Value	0.929	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.519	<b>Lilliefors GOF Test</b>	
5% Lilliefors Critical Value	0.159	Detected Data Not Normal at 5% Significance Level	

**Detected Data Not Normal at 5% Significance Level**

### Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	0.361	Standard Error of Mean	0.304
SD	2.587	<b>95% KM (BCA) UCL</b>	<b>0.973</b>
95% KM (t) UCL	0.867	95% KM (Percentile Bootstrap) UCL	0.965
95% KM (z) UCL	0.861	95% KM Bootstrap t UCL	11.13
90% KM Chebyshev UCL	1.272	95% KM Chebyshev UCL	1.685
97.5% KM Chebyshev UCL	2.257	99% KM Chebyshev UCL	3.382

### Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	5.856	<b>Anderson-Darling GOF Test</b>	
5% A-D Critical Value	0.848	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.415	<b>Kolmogrov-Smirnov GOF</b>	
5% K-S Critical Value	0.17	Detected Data Not Gamma Distributed at 5% Significance Level	

**Detected Data Not Gamma Distributed at 5% Significance Level**

### Gamma Statistics on Detected Data Only

k hat (MLE)	0.331	k star (bias corrected MLE)	0.32
Theta hat (MLE)	2.601	Theta star (bias corrected MLE)	2.686
nu hat (MLE)	20.5	nu star (bias corrected)	19.85
MLE Mean (bias corrected)	0.86	MLE Sd (bias corrected)	1.52

### Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0195	nu hat (KM)	2.926
Approximate Chi Square Value (2.93, $\alpha$ )	0.351	Adjusted Chi Square Value (2.93, $\beta$ )	0.336
95% Gamma Approximate KM-UCL (use when $n \geq 50$ )	3.013	95% Gamma Adjusted KM-UCL (use when $n < 50$ )	3.142

Gamma (KM) may not be used when k hat (KM) is < 0.1

### Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.361
Maximum	22.6	Median	0.01
SD	2.604	CV	7.208
k hat (MLE)	0.27	k star (bias corrected MLE)	0.268
Theta hat (MLE)	1.336	Theta star (bias corrected MLE)	1.346
nu hat (MLE)	40.55	nu star (bias corrected)	40.26
MLE Mean (bias corrected)	0.361	MLE Sd (bias corrected)	0.697
		Adjusted Level of Significance ( $\beta$ )	0.0468
Approximate Chi Square Value (40.26, $\alpha$ )	26.72	Adjusted Chi Square Value (40.26, $\beta$ )	26.5
95% Gamma Approximate UCL (use when $n \geq 50$ )	0.544	95% Gamma Adjusted UCL (use when $n < 50$ )	0.549

### Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.855	<b>Shapiro Wilk GOF Test</b>	
5% Shapiro Wilk Critical Value	0.929	Detected Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.182	<b>Lilliefors GOF Test</b>	
5% Lilliefors Critical Value	0.159	Detected Data Not Lognormal at 5% Significance Level	

## Offsite Excavation Area Soil

Detected Data Not Lognormal at 5% Significance Level

### Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.358	Mean in Log Scale	-4.432
SD in Original Scale	2.604	SD in Log Scale	2.36
95% t UCL (assumes normality of ROS data)	0.859	95% Percentile Bootstrap UCL	0.96
95% BCA Bootstrap UCL	1.268	95% Bootstrap t UCL	10.8
95% H-UCL (Log ROS)	0.561		

### DL/2 Statistics

<b>DL/2 Normal</b>		<b>DL/2 Log-Transformed</b>	
Mean in Original Scale	0.359	Mean in Log Scale	-3.998
SD in Original Scale	2.604	SD in Log Scale	1.772
95% t UCL (Assumes normality)	0.86	95% H-Stat UCL	0.168

DL/2 is not a recommended method, provided for comparisons and historical reasons

### Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

### Suggested UCL to Use

95% KM (BCA) UCL    0.973

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

### Chemical (chrysene)

#### General Statistics

Total Number of Observations	75	Number of Distinct Observations	36
Number of Detects	34	Number of Non-Detects	41
Number of Distinct Detects	34	Number of Distinct Non-Detects	2
Minimum Detect	0.011	Minimum Non-Detect	0.01
Maximum Detect	48	Maximum Non-Detect	0.1
Variance Detects	67.15	Percent Non-Detects	54.67%
Mean Detects	1.636	SD Detects	8.195
Median Detects	0.202	CV Detects	5.009
Skewness Detects	5.826	Kurtosis Detects	33.96
Mean of Logged Detects	-1.893	SD of Logged Detects	1.649

#### Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.193	<b>Shapiro Wilk GOF Test</b>	
5% Shapiro Wilk Critical Value	0.933	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.517	<b>Lilliefors GOF Test</b>	
5% Lilliefors Critical Value	0.152	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

#### Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	0.747	Standard Error of Mean	0.644
SD	5.496	95% KM (BCA) UCL	2.04
95% KM (t) UCL	1.82	95% KM (Percentile Bootstrap) UCL	2.026
95% KM (z) UCL	1.807	95% KM Bootstrap t UCL	25.02
90% KM Chebyshev UCL	2.68	95% KM Chebyshev UCL	3.555
97.5% KM Chebyshev UCL	4.77	99% KM Chebyshev UCL	7.156

#### Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	5.589	<b>Anderson-Darling GOF Test</b>	
5% A-D Critical Value	0.861	Detected Data Not Gamma Distributed at 5% Significance Level	



## Offsite Excavation Area Soil

K-S Test Statistic	0.385	<b>Kolmogrov-Smirnov GOF</b>	
5% K-S Critical Value	0.164	Detected Data Not Gamma Distributed at 5% Significance Level	

**Detected Data Not Gamma Distributed at 5% Significance Level**

### Gamma Statistics on Detected Data Only

k hat (MLE)	0.291	k star (bias corrected MLE)	0.285
Theta hat (MLE)	5.63	Theta star (bias corrected MLE)	5.749
nu hat (MLE)	19.76	nu star (bias corrected)	19.35
MLE Mean (bias corrected)	1.636	MLE Sd (bias corrected)	3.067

### Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0185	nu hat (KM)	2.773
Approximate Chi Square Value (2.77, $\alpha$ )	0.309	Adjusted Chi Square Value (2.77, $\beta$ )	0.296
95% Gamma Approximate KM-UCL (use when $n \geq 50$ )	6.717	95% Gamma Adjusted KM-UCL (use when $n < 50$ )	7.009

Gamma (KM) may not be used when k hat (KM) is < 0.1

### Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.747
Maximum	48	Median	0.01
SD	5.533	CV	7.405
k hat (MLE)	0.233	k star (bias corrected MLE)	0.233
Theta hat (MLE)	3.208	Theta star (bias corrected MLE)	3.213
nu hat (MLE)	34.94	nu star (bias corrected)	34.88
MLE Mean (bias corrected)	0.747	MLE Sd (bias corrected)	1.549
		Adjusted Level of Significance ( $\beta$ )	0.0468
Approximate Chi Square Value (34.88, $\alpha$ )	22.37	Adjusted Chi Square Value (34.88, $\beta$ )	22.17
95% Gamma Approximate UCL (use when $n \geq 50$ )	1.165	95% Gamma Adjusted UCL (use when $n < 50$ )	1.175

### Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.89	<b>Shapiro Wilk GOF Test</b>	
5% Shapiro Wilk Critical Value	0.933	Detected Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.152	<b>Lilliefors GOF Test</b>	
5% Lilliefors Critical Value	0.152	Detected Data appear Lognormal at 5% Significance Level	

**Detected Data appear Approximate Lognormal at 5% Significance Level**

### Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.744	Mean in Log Scale	-4.257
SD in Original Scale	5.533	SD in Log Scale	2.702
95% t UCL (assumes normality of ROS data)	1.808	95% Percentile Bootstrap UCL	2.023
95% BCA Bootstrap UCL	2.686	95% Bootstrap t UCL	25.02
95% H-UCL (Log ROS)	2.139		

### UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	-3.372	95% H-UCL (KM -Log)	0.289
KM SD (logged)	1.737	95% Critical H Value (KM-Log)	3.087
KM Standard Error of Mean (logged)	0.204		

### DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	0.745	Mean in Log Scale	-3.724
SD in Original Scale	5.533	SD in Log Scale	2.025
95% t UCL (Assumes normality)	1.809	95% H-Stat UCL	0.423

**DL/2 is not a recommended method, provided for comparisons and historical reasons**

### Nonparametric Distribution Free UCL Statistics

# Offsite Excavation Area Soil

Detected Data appear Approximate Lognormal Distributed at 5% Significance Level

## Suggested UCL to Use

95% KM (Chebyshev) UCL 3.555

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

## Chemical (fluoranthene)

### General Statistics

Total Number of Observations	75	Number of Distinct Observations	39
Number of Detects	38	Number of Non-Detects	37
Number of Distinct Detects	38	Number of Distinct Non-Detects	1
Minimum Detect	0.0155	Minimum Non-Detect	0.01
Maximum Detect	72.8	Maximum Non-Detect	0.01
Variance Detects	138	Percent Non-Detects	49.33%
Mean Detects	2.321	SD Detects	11.75
Median Detects	0.302	CV Detects	5.063
Skewness Detects	6.153	Kurtosis Detects	37.91
Mean of Logged Detects	-1.429	SD of Logged Detects	1.68

### Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.189	<b>Shapiro Wilk GOF Test</b>
5% Shapiro Wilk Critical Value	0.938	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.503	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.144	Detected Data Not Normal at 5% Significance Level

**Detected Data Not Normal at 5% Significance Level**

### Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	1.181	Standard Error of Mean	0.975
SD	8.333	95% KM (BCA) UCL	3.144
95% KM (t) UCL	2.805	95% KM (Percentile Bootstrap) UCL	3.116
95% KM (z) UCL	2.785	95% KM Bootstrap t UCL	29.31
90% KM Chebyshev UCL	4.106	95% KM Chebyshev UCL	5.431
97.5% KM Chebyshev UCL	7.27	99% KM Chebyshev UCL	10.88

### Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	5.239	<b>Anderson-Darling GOF Test</b>
5% A-D Critical Value	0.856	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.341	<b>Kolmogrov-Smirnov GOF</b>
5% K-S Critical Value	0.155	Detected Data Not Gamma Distributed at 5% Significance Level

**Detected Data Not Gamma Distributed at 5% Significance Level**

### Gamma Statistics on Detected Data Only

k hat (MLE)	0.303	k star (bias corrected MLE)	0.297
Theta hat (MLE)	7.657	Theta star (bias corrected MLE)	7.821
nu hat (MLE)	23.04	nu star (bias corrected)	22.55
MLE Mean (bias corrected)	2.321	MLE Sd (bias corrected)	4.26

### Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0201	nu hat (KM)	3.012
Approximate Chi Square Value (3.01, $\alpha$ )	0.376	Adjusted Chi Square Value (3.01, $\beta$ )	0.361
95% Gamma Approximate KM-UCL (use when $n \geq 50$ )	9.46	95% Gamma Adjusted KM-UCL (use when $n < 50$ )	9.863

Gamma (KM) may not be used when k hat (KM) is < 0.1

### Gamma ROS Statistics using Imputed Non-Detects

## Offsite Excavation Area Soil

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	1.181
Maximum	72.8	Median	0.0155
SD	8.389	CV	7.105
k hat (MLE)	0.228	k star (bias corrected MLE)	0.228
Theta hat (MLE)	5.18	Theta star (bias corrected MLE)	5.185
nu hat (MLE)	34.19	nu star (bias corrected)	34.16
MLE Mean (bias corrected)	1.181	MLE Sd (bias corrected)	2.474
		Adjusted Level of Significance (β)	0.0468
Approximate Chi Square Value (34.16, α)	21.79	Adjusted Chi Square Value (34.16, β)	21.6
95% Gamma Approximate UCL (use when n>=50)	1.851	95% Gamma Adjusted UCL (use when n<50)	1.867

### Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.922	<b>Shapiro Wilk GOF Test</b>	
5% Shapiro Wilk Critical Value	0.938	Detected Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.122	<b>Lilliefors GOF Test</b>	
5% Lilliefors Critical Value	0.144	Detected Data appear Lognormal at 5% Significance Level	

**Detected Data appear Approximate Lognormal at 5% Significance Level**

### Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	1.179	Mean in Log Scale	-3.579
SD in Original Scale	8.389	SD in Log Scale	2.721
95% t UCL (assumes normality of ROS data)	2.793	95% Percentile Bootstrap UCL	3.097
95% BCA Bootstrap UCL	4.111	95% Bootstrap t UCL	29.08
95% H-UCL (Log ROS)	4.513		

### UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	-2.996	95% H-UCL (KM -Log)	0.771
KM SD (logged)	1.978	95% Critical H Value (KM-Log)	3.392
KM Standard Error of Mean (logged)	0.231		

### DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	1.178	Mean in Log Scale	-3.338
SD in Original Scale	8.389	SD in Log Scale	2.281
95% t UCL (Assumes normality)	2.792	95% H-Stat UCL	1.307

**DL/2 is not a recommended method, provided for comparisons and historical reasons**

### Nonparametric Distribution Free UCL Statistics

**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**

### Suggested UCL to Use

97.5% KM (Chebyshev) UCL    7.27

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

### Chemical (indeno(1,2,3-cd)pyrene)

#### General Statistics

Total Number of Observations	75	Number of Distinct Observations	37
Number of Detects	35	Number of Non-Detects	40
Number of Distinct Detects	35	Number of Distinct Non-Detects	3
Minimum Detect	0.01	Minimum Non-Detect	0.01

# Offsite Excavation Area Soil

Maximum Detect	59.5	Maximum Non-Detect	0.1
Variance Detects	100.3	Percent Non-Detects	53.33%
Mean Detects	1.972	SD Detects	10.01
Median Detects	0.252	CV Detects	5.078
Skewness Detects	5.911	Kurtosis Detects	34.96
Mean of Logged Detects	-1.748	SD of Logged Detects	1.703

### Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.19	<b>Shapiro Wilk GOF Test</b>	
5% Shapiro Wilk Critical Value	0.934	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.515	<b>Lilliefors GOF Test</b>	
5% Lilliefors Critical Value	0.15	Detected Data Not Normal at 5% Significance Level	

**Detected Data Not Normal at 5% Significance Level**

### Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	0.926	Standard Error of Mean	0.798
SD	6.812	95% KM (BCA) UCL	2.513
95% KM (t) UCL	2.255	95% KM (Percentile Bootstrap) UCL	2.505
95% KM (z) UCL	2.238	95% KM Bootstrap t UCL	31.59
90% KM Chebyshev UCL	3.32	<b>95% KM Chebyshev UCL</b>	<b>4.404</b>
97.5% KM Chebyshev UCL	5.91	99% KM Chebyshev UCL	8.867

### Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	5.595	<b>Anderson-Darling GOF Test</b>	
5% A-D Critical Value	0.863	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.374	<b>Kolmogrov-Smirnoff GOF</b>	
5% K-S Critical Value	0.162	Detected Data Not Gamma Distributed at 5% Significance Level	

**Detected Data Not Gamma Distributed at 5% Significance Level**

### Gamma Statistics on Detected Data Only

k hat (MLE)	0.286	k star (bias corrected MLE)	0.281
Theta hat (MLE)	6.886	Theta star (bias corrected MLE)	7.021
nu hat (MLE)	20.04	nu star (bias corrected)	19.66
MLE Mean (bias corrected)	1.972	MLE Sd (bias corrected)	3.721

### Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0185	nu hat (KM)	2.769
Approximate Chi Square Value (2.77, $\alpha$ )	0.307	Adjusted Chi Square Value (2.77, $\beta$ )	0.295
95% Gamma Approximate KM-UCL (use when $n \geq 50$ )	8.337	95% Gamma Adjusted KM-UCL (use when $n < 50$ )	8.7

Gamma (KM) may not be used when k hat (KM) is < 0.1

### Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.925
Maximum	59.5	Median	0.01
SD	6.858	CV	7.411
k hat (MLE)	0.226	k star (bias corrected MLE)	0.226
Theta hat (MLE)	4.095	Theta star (bias corrected MLE)	4.098
nu hat (MLE)	33.9	nu star (bias corrected)	33.88
MLE Mean (bias corrected)	0.925	MLE Sd (bias corrected)	1.947
		Adjusted Level of Significance ( $\beta$ )	0.0468
Approximate Chi Square Value (33.88, $\alpha$ )	21.57	Adjusted Chi Square Value (33.88, $\beta$ )	21.37
95% Gamma Approximate UCL (use when $n \geq 50$ )	1.454	95% Gamma Adjusted UCL (use when $n < 50$ )	1.467

### Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.894	<b>Shapiro Wilk GOF Test</b>	
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## Offsite Excavation Area Soil

5% Shapiro Wilk Critical Value	0.934	Detected Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.145	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.15	Detected Data appear Lognormal at 5% Significance Level

**Detected Data appear Approximate Lognormal at 5% Significance Level**

### Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.923	Mean in Log Scale	-4.088
SD in Original Scale	6.859	SD in Log Scale	2.743
95% t UCL (assumes normality of ROS data)	2.242	95% Percentile Bootstrap UCL	2.501
95% BCA Bootstrap UCL	3.331	95% Bootstrap t UCL	31.49
95% H-UCL (Log ROS)	2.947		

### UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	-3.267	95% H-UCL (KM -Log)	0.4
KM SD (logged)	1.828	95% Critical H Value (KM-Log)	3.201
KM Standard Error of Mean (logged)	0.214		

### DL/2 Statistics

#### DL/2 Normal

Mean in Original Scale	0.924
SD in Original Scale	6.858
95% t UCL (Assumes normality)	2.243

#### DL/2 Log-Transformed

Mean in Log Scale	-3.589
SD in Log Scale	2.108
95% H-Stat UCL	0.609

**DL/2 is not a recommended method, provided for comparisons and historical reasons**

### Nonparametric Distribution Free UCL Statistics

**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**

### Suggested UCL to Use

95% KM (Chebyshev) UCL    4.404

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

## Chemical (naphthalene)

### General Statistics

Total Number of Observations	75	Number of Distinct Observations	13
Number of Detects	8	Number of Non-Detects	67
Number of Distinct Detects	8	Number of Distinct Non-Detects	5
Minimum Detect	0.0106	Minimum Non-Detect	0.01
Maximum Detect	0.216	Maximum Non-Detect	1
Variance Detects	0.00467	Percent Non-Detects	89.33%
Mean Detects	0.0493	SD Detects	0.0683
Median Detects	0.0253	CV Detects	1.386
Skewness Detects	2.67	Kurtosis Detects	7.319
Mean of Logged Detects	-3.5	SD of Logged Detects	0.931

### Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.577	<b>Shapiro Wilk GOF Test</b>
5% Shapiro Wilk Critical Value	0.818	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.415	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.313	Detected Data Not Normal at 5% Significance Level

**Detected Data Not Normal at 5% Significance Level**

### Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	0.0144	Standard Error of Mean	0.00303
SD	0.0243	95% KM (BCA) UCL	0.0202

# Offsite Excavation Area Soil

95% KM (t) UCL	0.0194	95% KM (Percentile Bootstrap) UCL	0.0197
95% KM (z) UCL	0.0194	95% KM Bootstrap t UCL	0.0323
90% KM Chebyshev UCL	0.0235	95% KM Chebyshev UCL	0.0276
97.5% KM Chebyshev UCL	0.0333	99% KM Chebyshev UCL	0.0445

### Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.822	<b>Anderson-Darling GOF Test</b>	
5% A-D Critical Value	0.733	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.312	<b>Kolmogrov-Smirnov GOF</b>	
5% K-S Critical Value	0.301	Detected Data Not Gamma Distributed at 5% Significance Level	

**Detected Data Not Gamma Distributed at 5% Significance Level**

### Gamma Statistics on Detected Data Only

k hat (MLE)	1.159	k star (bias corrected MLE)	0.807
Theta hat (MLE)	0.0426	Theta star (bias corrected MLE)	0.0611
nu hat (MLE)	18.54	nu star (bias corrected)	12.92
MLE Mean (bias corrected)	0.0493	MLE Sd (bias corrected)	0.0549

### Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.348	nu hat (KM)	52.25
Approximate Chi Square Value (52.25, $\alpha$ )	36.65	Adjusted Chi Square Value (52.25, $\beta$ )	36.39
95% Gamma Approximate KM-UCL (use when $n \geq 50$ )	0.0205	95% Gamma Adjusted KM-UCL (use when $n < 50$ )	0.0206

### Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.0142
Maximum	0.216	Median	0.01
SD	0.0243	CV	1.713
k hat (MLE)	2.306	k star (bias corrected MLE)	2.222
Theta hat (MLE)	0.00616	Theta star (bias corrected MLE)	0.00639
nu hat (MLE)	345.9	nu star (bias corrected)	333.4
MLE Mean (bias corrected)	0.0142	MLE Sd (bias corrected)	0.00952
		Adjusted Level of Significance ( $\beta$ )	0.0468
Approximate Chi Square Value (333.35, $\alpha$ )	292	Adjusted Chi Square Value (333.35, $\beta$ )	291.3
95% Gamma Approximate UCL (use when $n \geq 50$ )	0.0162	95% Gamma Adjusted UCL (use when $n < 50$ )	0.0162

### Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.887	<b>Shapiro Wilk GOF Test</b>	
5% Shapiro Wilk Critical Value	0.818	Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.233	<b>Lilliefors GOF Test</b>	
5% Lilliefors Critical Value	0.313	Detected Data appear Lognormal at 5% Significance Level	

**Detected Data appear Lognormal at 5% Significance Level**

### Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.00639	Mean in Log Scale	-7.32
SD in Original Scale	0.0258	SD in Log Scale	2.133
95% t UCL (assumes normality of ROS data)	0.0114	95% Percentile Bootstrap UCL	0.0124
95% BCA Bootstrap UCL	0.0158	95% Bootstrap t UCL	0.0231
95% H-UCL (Log ROS)	0.0157		

### UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	-4.479	95% H-UCL (KM -Log)	0.0138
KM SD (logged)	0.452	95% Critical H Value (KM-Log)	1.826
KM Standard Error of Mean (logged)	0.0571		

### DL/2 Statistics

## Offsite Excavation Area Soil

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	0.0191	Mean in Log Scale	-4.845
SD in Original Scale	0.0621	SD in Log Scale	0.917
95% t UCL (Assumes normality)	0.0311	95% H-Stat UCL	0.0151

**DL/2 is not a recommended method, provided for comparisons and historical reasons**

### Nonparametric Distribution Free UCL Statistics

**Detected Data appear Lognormal Distributed at 5% Significance Level**

### Suggested UCL to Use

95% KM (t) UCL	0.0194	95% KM (% Bootstrap) UCL	0.0197
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Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

### Chemical (phenanthrene)

#### General Statistics

Total Number of Observations	75	Number of Distinct Observations	30
Number of Detects	30	Number of Non-Detects	45
Number of Distinct Detects	29	Number of Distinct Non-Detects	1
Minimum Detect	0.012	Minimum Non-Detect	0.01
Maximum Detect	4.78	Maximum Non-Detect	0.01
Variance Detects	0.771	Percent Non-Detects	60%
Mean Detects	0.373	SD Detects	0.878
Median Detects	0.109	CV Detects	2.354
Skewness Detects	4.674	Kurtosis Detects	23.61
Mean of Logged Detects	-2.125	SD of Logged Detects	1.478

#### Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.408	<b>Shapiro Wilk GOF Test</b>
5% Shapiro Wilk Critical Value	0.927	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.34	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.162	Detected Data Not Normal at 5% Significance Level

**Detected Data Not Normal at 5% Significance Level**

#### Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	0.155	Standard Error of Mean	0.0674
SD	0.574	<b>95% KM (BCA) UCL</b>	<b>0.288</b>
95% KM (t) UCL	0.268	95% KM (Percentile Bootstrap) UCL	0.278
95% KM (z) UCL	0.266	95% KM Bootstrap t UCL	0.482
90% KM Chebyshev UCL	0.358	95% KM Chebyshev UCL	0.449
97.5% KM Chebyshev UCL	0.576	99% KM Chebyshev UCL	0.826

#### Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.431	<b>Anderson-Darling GOF Test</b>
5% A-D Critical Value	0.805	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.199	<b>Kolmogrov-Smirnov GOF</b>
5% K-S Critical Value	0.169	Detected Data Not Gamma Distributed at 5% Significance Level

**Detected Data Not Gamma Distributed at 5% Significance Level**

#### Gamma Statistics on Detected Data Only

k hat (MLE)	0.549	k star (bias corrected MLE)	0.517
Theta hat (MLE)	0.679	Theta star (bias corrected MLE)	0.722
nu hat (MLE)	32.97	nu star (bias corrected)	31.01
MLE Mean (bias corrected)	0.373	MLE Sd (bias corrected)	0.519

# Offsite Excavation Area Soil

## Gamma Kaplan-Meier (KM) Statistics

	k hat (KM)	0.0731	nu hat (KM)	10.96
Approximate Chi Square Value (10.96, $\alpha$ )	4.551		Adjusted Chi Square Value (10.96, $\beta$ )	4.47
95% Gamma Approximate KM-UCL (use when $n \geq 50$ )	0.374		95% Gamma Adjusted KM-UCL (use when $n < 50$ )	0.381

Gamma (KM) may not be used when k hat (KM) is < 0.1

## Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

	Minimum	0.01	Mean	0.155
	Maximum	4.78	Median	0.01
	SD	0.578	CV	3.724
	k hat (MLE)	0.379	k star (bias corrected MLE)	0.373
	Theta hat (MLE)	0.409	Theta star (bias corrected MLE)	0.416
	nu hat (MLE)	56.88	nu star (bias corrected)	55.94
	MLE Mean (bias corrected)	0.155	MLE Sd (bias corrected)	0.254
			Adjusted Level of Significance ( $\beta$ )	0.0468
Approximate Chi Square Value (55.94, $\alpha$ )	39.75		Adjusted Chi Square Value (55.94, $\beta$ )	39.48
95% Gamma Approximate UCL (use when $n \geq 50$ )	0.218		95% Gamma Adjusted UCL (use when $n < 50$ )	0.22

## Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.956	<b>Shapiro Wilk GOF Test</b>
5% Shapiro Wilk Critical Value	0.927	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.116	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.162	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

## Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.152	Mean in Log Scale	-4.768
SD in Original Scale	0.579	SD in Log Scale	2.706
95% t UCL (assumes normality of ROS data)	0.263	95% Percentile Bootstrap UCL	0.271
95% BCA Bootstrap UCL	0.36	95% Bootstrap t UCL	0.502
95% H-UCL (Log ROS)	1.303		

## UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	-3.613	95% H-UCL (KM -Log)	0.142
KM SD (logged)	1.523	95% Critical H Value (KM-Log)	2.829
KM Standard Error of Mean (logged)	0.179		

## DL/2 Statistics

<b>DL/2 Normal</b>		<b>DL/2 Log-Transformed</b>	
Mean in Original Scale	0.152	Mean in Log Scale	-4.029
SD in Original Scale	0.579	SD in Log Scale	1.818
95% t UCL (Assumes normality)	0.264	95% H-Stat UCL	0.182

DL/2 is not a recommended method, provided for comparisons and historical reasons

## Nonparametric Distribution Free UCL Statistics

Detected Data appear Lognormal Distributed at 5% Significance Level

## Suggested UCL to Use

95% KM (BCA) UCL     0.288

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.



## Offsite Excavation Area Soil

Chemical (pyrene)

### General Statistics

Total Number of Observations	75	Number of Distinct Observations	39
Number of Detects	40	Number of Non-Detects	35
Number of Distinct Detects	38	Number of Distinct Non-Detects	1
Minimum Detect	0.0112	Minimum Non-Detect	0.01
Maximum Detect	106	Maximum Non-Detect	0.01
Variance Detects	278.4	Percent Non-Detects	46.67%
Mean Detects	3.162	SD Detects	16.68
Median Detects	0.385	CV Detects	5.276
Skewness Detects	6.315	Kurtosis Detects	39.92
Mean of Logged Detects	-1.289	SD of Logged Detects	1.805

### Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.182	<b>Shapiro Wilk GOF Test</b>	
5% Shapiro Wilk Critical Value	0.94	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.507	<b>Lilliefors GOF Test</b>	
5% Lilliefors Critical Value	0.14	Detected Data Not Normal at 5% Significance Level	

**Detected Data Not Normal at 5% Significance Level**

### Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	1.691	Standard Error of Mean	1.419
SD	12.13	95% KM (BCA) UCL	4.528
95% KM (t) UCL	4.055	95% KM (Percentile Bootstrap) UCL	4.504
95% KM (z) UCL	4.025	95% KM Bootstrap t UCL	46.94
90% KM Chebyshev UCL	5.948	95% KM Chebyshev UCL	7.876
97.5% KM Chebyshev UCL	10.55	99% KM Chebyshev UCL	15.81

### Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	5.368	<b>Anderson-Darling GOF Test</b>	
5% A-D Critical Value	0.865	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.34	<b>Kolmogrov-Smirnov GOF</b>	
5% K-S Critical Value	0.152	Detected Data Not Gamma Distributed at 5% Significance Level	

**Detected Data Not Gamma Distributed at 5% Significance Level**

### Gamma Statistics on Detected Data Only

k hat (MLE)	0.285	k star (bias corrected MLE)	0.28
Theta hat (MLE)	11.1	Theta star (bias corrected MLE)	11.28
nu hat (MLE)	22.8	nu star (bias corrected)	22.42
MLE Mean (bias corrected)	3.162	MLE Sd (bias corrected)	5.973

### Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0194	nu hat (KM)	2.914
Approximate Chi Square Value (2.91, $\alpha$ )	0.347	Adjusted Chi Square Value (2.91, $\beta$ )	0.333
95% Gamma Approximate KM-UCL (use when $n \geq 50$ )	14.19	95% Gamma Adjusted KM-UCL (use when $n < 50$ )	14.8

Gamma (KM) may not be used when k hat (KM) is < 0.1

### Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	1.691
Maximum	106	Median	0.0156
SD	12.22	CV	7.223
k hat (MLE)	0.216	k star (bias corrected MLE)	0.216
Theta hat (MLE)	7.821	Theta star (bias corrected MLE)	7.812
nu hat (MLE)	32.44	nu star (bias corrected)	32.47

## Offsite Excavation Area Soil

MLE Mean (bias corrected)	1.691	MLE Sd (bias corrected)	3.635
		Adjusted Level of Significance (β)	0.0468
Approximate Chi Square Value (32.47, α)	20.45	Adjusted Chi Square Value (32.47, β)	20.26
95% Gamma Approximate UCL (use when n>=50)	2.686	95% Gamma Adjusted UCL (use when n<50)	2.711

### Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.926	<b>Shapiro Wilk GOF Test</b>
5% Shapiro Wilk Critical Value	0.94	Detected Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.124	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.14	Detected Data appear Lognormal at 5% Significance Level

**Detected Data appear Approximate Lognormal at 5% Significance Level**

### Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	1.69	Mean in Log Scale	-3.407
SD in Original Scale	12.22	SD in Log Scale	2.84
95% t UCL (assumes normality of ROS data)	4.039	95% Percentile Bootstrap UCL	4.495
95% BCA Bootstrap UCL	5.956	95% Bootstrap t UCL	47.78
95% H-UCL (Log ROS)	8.378		

### UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	-2.836	95% H-UCL (KM -Log)	1.284
KM SD (logged)	2.105	95% Critical H Value (KM-Log)	3.557
KM Standard Error of Mean (logged)	0.246		

### DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	1.689	Mean in Log Scale	-3.16
SD in Original Scale	12.22	SD in Log Scale	2.403
95% t UCL (Assumes normality)	4.038	95% H-Stat UCL	2.293

**DL/2 is not a recommended method, provided for comparisons and historical reasons**

### Nonparametric Distribution Free UCL Statistics

**Detected Data appear Approximate Lognormal Distributed at 5% Significance Level**

### Suggested UCL to Use

97.5% KM (Chebyshev) UCL    10.55

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

### Chemical (Benzo(a)pyrene Equivalents)

#### General Statistics

Total Number of Observations	75	Number of Distinct Observations	38
		Number of Missing Observations	0
Minimum	0.00875	Mean	1.255
Maximum	79.15	Median	0.00875
SD	9.121	Std. Error of Mean	1.053
Coefficient of Variation	7.268	Skewness	8.645

#### Normal GOF Test

Shapiro Wilk Test Statistic	0.134	<b>Shapiro Wilk GOF Test</b>
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.493	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.102	Data Not Normal at 5% Significance Level

**Data Not Normal at 5% Significance Level**

## Offsite Excavation Area Soil

### Assuming Normal Distribution

#### 95% Normal UCL

95% Student's-t UCL 3.009

#### 95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995) 4.111

95% Modified-t UCL (Johnson-1978) 3.185

#### Gamma GOF Test

A-D Test Statistic 11.93

5% A-D Critical Value 0.904

K-S Test Statistic 0.261

5% K-S Critical Value 0.114

#### Anderson-Darling Gamma GOF Test

Data Not Gamma Distributed at 5% Significance Level

#### Kolmogrov-Smirnov Gamma GOF Test

Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

#### Gamma Statistics

k hat (MLE) 0.222

Theta hat (MLE) 5.659

nu hat (MLE) 33.26

MLE Mean (bias corrected) 1.255

Adjusted Level of Significance 0.0468

k star (bias corrected MLE) 0.222

Theta star (bias corrected MLE) 5.658

nu star (bias corrected) 33.27

MLE Sd (bias corrected) 2.665

Approximate Chi Square Value (0.05) 21.08

Adjusted Chi Square Value 20.89

### Assuming Gamma Distribution

95% Approximate Gamma UCL (use when  $n \geq 50$ ) 1.98

95% Adjusted Gamma UCL (use when  $n < 50$ ) 1.999

#### Lognormal GOF Test

Shapiro Wilk Test Statistic 0.778

5% Shapiro Wilk P Value 7.772E-16

Lilliefors Test Statistic 0.304

5% Lilliefors Critical Value 0.102

#### Shapiro Wilk Lognormal GOF Test

Data Not Lognormal at 5% Significance Level

#### Lilliefors Lognormal GOF Test

Data Not Lognormal at 5% Significance Level

Data Not Lognormal at 5% Significance Level

#### Lognormal Statistics

Minimum of Logged Data -4.739

Maximum of Logged Data 4.371

Mean of logged Data -3.038

SD of logged Data 2.046

### Assuming Lognormal Distribution

95% H-UCL 0.889

95% Chebyshev (MVUE) UCL 0.93

99% Chebyshev (MVUE) UCL 1.663

90% Chebyshev (MVUE) UCL 0.752

97.5% Chebyshev (MVUE) UCL 1.177

### Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution (0.05)

#### Nonparametric Distribution Free UCLs

95% CLT UCL 2.987

95% Standard Bootstrap UCL 2.982

95% Hall's Bootstrap UCL 12.88

95% BCA Bootstrap UCL 4.462

90% Chebyshev(Mean, Sd) UCL 4.415

97.5% Chebyshev(Mean, Sd) UCL 7.832

95% Jackknife UCL 3.009

95% Bootstrap-t UCL 38.04

95% Percentile Bootstrap UCL 3.352

95% Chebyshev(Mean, Sd) UCL 5.846

99% Chebyshev(Mean, Sd) UCL 11.73

#### Suggested UCL to Use

95% Chebyshev (Mean, Sd) UCL 5.846

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)

and Singh and Singh (2003). However, simulation results will not cover all Real World data sets.

For additional insight the user may want to consult a statistician.

Chemical (Benzo(a)pyrene Equivalents Excluding Maximum Detected Concentration)

# Offsite Excavation Area Soil

## General Statistics

Total Number of Observations	74	Number of Distinct Observations	37
		Number of Missing Observations	0
Minimum	0.00875	Mean	0.202
Maximum	1.108	Median	0.00875
SD	0.309	Std. Error of Mean	0.036
Coefficient of Variation	1.53	Skewness	1.598

## Normal GOF Test

Shapiro Wilk Test Statistic	0.673	<b>Shapiro Wilk GOF Test</b>
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.303	<b>Lilliefors GOF Test</b>
5% Lilliefors Critical Value	0.103	Data Not Normal at 5% Significance Level

**Data Not Normal at 5% Significance Level**

## Assuming Normal Distribution

<b>95% Normal UCL</b>	<b>95% UCLs (Adjusted for Skewness)</b>	
95% Student's-t UCL	0.262	
	95% Adjusted-CLT UCL (Chen-1995)	0.269
	95% Modified-t UCL (Johnson-1978)	0.263

## Gamma GOF Test

A-D Test Statistic	7.39	<b>Anderson-Darling Gamma GOF Test</b>
5% A-D Critical Value	0.836	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.307	<b>Kolmogrov-Smirnoff Gamma GOF Test</b>
5% K-S Critical Value	0.111	Data Not Gamma Distributed at 5% Significance Level

**Data Not Gamma Distributed at 5% Significance Level**

## Gamma Statistics

k hat (MLE)	0.423	k star (bias corrected MLE)	0.415
Theta hat (MLE)	0.478	Theta star (bias corrected MLE)	0.487
nu hat (MLE)	62.67	nu star (bias corrected)	61.46
MLE Mean (bias corrected)	0.202	MLE Sd (bias corrected)	0.314
		Approximate Chi Square Value (0.05)	44.43
Adjusted Level of Significance	0.0468	Adjusted Chi Square Value	44.14

## Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	0.28	95% Adjusted Gamma UCL (use when n<50)	0.282
---	------	--	-------

## Lognormal GOF Test

Shapiro Wilk Test Statistic	0.747	<b>Shapiro Wilk Lognormal GOF Test</b>
5% Shapiro Wilk P Value	0	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.318	<b>Lilliefors Lognormal GOF Test</b>
5% Lilliefors Critical Value	0.103	Data Not Lognormal at 5% Significance Level

**Data Not Lognormal at 5% Significance Level**

## Lognormal Statistics

Minimum of Logged Data	-4.739	Mean of logged Data	-3.138
Maximum of Logged Data	0.103	SD of logged Data	1.866

## Assuming Lognormal Distribution

95% H-UCL	0.502	90% Chebyshev (MVUE) UCL	0.458
95% Chebyshev (MVUE) UCL	0.56	97.5% Chebyshev (MVUE) UCL	0.702
99% Chebyshev (MVUE) UCL	0.98		

## Nonparametric Distribution Free UCL Statistics

**Data do not follow a Discernible Distribution (0.05)**

## Nonparametric Distribution Free UCLs

## Offsite Excavation Area Soil

95% CLT UCL	0.261	95% Jackknife UCL	0.262
95% Standard Bootstrap UCL	0.262	95% Bootstrap-t UCL	0.272
95% Hall's Bootstrap UCL	0.266	95% Percentile Bootstrap UCL	0.261
95% BCA Bootstrap UCL	0.264		
90% Chebyshev(Mean, Sd) UCL	0.31	95% Chebyshev(Mean, Sd) UCL	0.359
97.5% Chebyshev(Mean, Sd) UCL	0.427	99% Chebyshev(Mean, Sd) UCL	0.56

### Suggested UCL to Use

95% Chebyshev (Mean, Sd) UCL 0.359

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). However, simulation results will not cover all Real World data sets. For additional insight the user may want to consult a statistician.

# Offsite Excavation Area Soil

## Wilcoxon-Mann-Whitney Site vs Background Comparison Test for Full Data Sets without NDs

### User Selected Options

From File    WorkSheet.wst  
Full Precision    OFF  
Confidence Coefficient    95%  
Substantial Difference    0  
Selected Null Hypothesis    Site or AOC Mean/Median Less Than or Equal to Background Mean/Median (Form 1)  
Alternative Hypothesis    Site or AOC Mean/Median Greater Than Background Mean/Median

Area of Concern Data: BaPEQ\_woMax

Background Data: Ambient BaPEQ

### Raw Statistics

	Site	Background
Number of Valid Observations	74	185
Number of Distinct Observations	37	184
Minimum	0.0085	0.00022
Maximum	1.108	4.052
Mean	0.201	0.158
Median	0.00875	0.0388
SD	0.31	0.414
SE of Mean	0.036	0.0304

### Wilcoxon-Mann-Whitney (WMW) Test

H0: Mean/Median of Site or AOC <= Mean/Median of Background

Site Rank Sum W-Stat 9333  
WMW Test U-Stat -0.528  
WMW Critical Value (0.050) 1.645  
P-Value 0.701

Conclusion with Alpha = 0.05

Do Not Reject H0, Conclude Site <= Background  
P-Value >= alpha (0.05)

# Offsite Excavation Area Soil

## Non-parametric Quantile Hypothesis Test for Full Dataset (No NDs)

### User Selected Options

From File    WorkSheet.wst  
Full Precision    OFF  
Confidence Coefficient    95%  
Null Hypothesis    Site or AOC Concentration Less Than or Equal to Background Concentration (Form 1)  
Alternative Hypothesis    Site or AOC Concentration Greater Than Background Concentration

Area of Concern Data: BaPEQ\_woMax

Background Data: Ambient BaPEQ

### Raw Statistics

	Site	Background
Number of Valid Observations	74	185
Number of Distinct Observations	37	184
Minimum	0.0085	0.00022
Maximum	1.108	4.052
Mean	0.201	0.158
Median	0.00875	0.0388
SD	0.31	0.414
SE of Mean	0.036	0.0304

### Quantile Test

H0: Site Concentration  $\leq$  Background Concentration (Form 1)

Approximate R Value (0.053) 6  
Approximate K Value (0.053) 5  
Number of Site Observations in 'R' Largest 1  
Calculated Alpha    N/A

Conclusion with Alpha = 0.053

**Do Not Reject H0, Perform Wilcoxon-Mann-Whitney Ranked Sum Test**

**Attachment L**

**Volume-Weighted Average Concentration for CPAHs**



## **Attachment L**

### **Volume-Weighted Average Concentration for CPAHs**

#### **L.1 Introduction**

This Attachment of the Site Closure Report for the Offsite Area (hereafter referred to as “the Report”) describes the approach used to estimate the representative concentrations of carcinogenic polycyclic aromatic hydrocarbons (CPAHs) (i.e., the volume-weighted average concentrations) in inaccessible area soil and in a hypothetical backyard portion of a residential lot to which future residential populations could potentially be exposed. The representative concentrations of CPAHs in soils are used in the post-remediation human health risk assessment (HHRA) to determine whether soil remediation efforts have effectively achieved the overall remedial action goal set forth in the Supplemental Removal Action Workplan (SRAW, Parsons 2012) for the offsite areas, and to assess whether the levels of the CPAHs remaining in the offsite inaccessible area soil are acceptable and protective of a future residential land use scenario.

#### **L.2 Estimation of Representative Soil Concentrations**

This section describes the methods used to estimate the potential future concentrations that could be associated with the offsite inaccessible area soil and a 1,000 square foot (ft<sup>2</sup>) area, an appropriate-sized area that approximates the size of a potential backyard portion of a residential lot. Calculating the volume-weighted average concentration of CPAHs for an area requires dividing the soil into discrete volumes and determining the representative concentration within each volume. Each of these steps is described below.

##### **L.2.1 Soil Volume Calculations**

As indicated on Figure 4 and discussed in Section 7.0 of the Report, CPAH-impacted soils remain in an offsite inaccessible area at concentrations in excess of the initial target excavation concentration of 0.9 milligrams per kilogram (mg/kg) for CPAH, expressed in benzo(a)pyrene [B(a)P] equivalents, although the exceedances represent a limited volume of soil. As described in Section 7.0 of the Report, an approximately 2-inch-thick lampblack layer was observed at approximately 1.75 feet below ground surface (ft bgs) on the southern sidewall of the excavation and extended approximately a length of 15 ft, where it tapered-out at both ends. Laboratory results indicate that this layer does not extend as far south as A-OSI-32 (approximately 6 ft to the south), where CPAH was well below 0.9 mg/kg. Therefore, this remaining 2-inch layer of lampblack is conservatively estimated to cover an area of approximately 15 ft by 6 ft or 90 square feet (ft<sup>2</sup>) south of the excavation.

From a practical standpoint, the only scenario in which future residential uses of the area could result in exposure to the small remaining impacted volume of soil in this inaccessible area would likely involve grading and subsequent mixing of the inaccessible soil with the accessible soil and backfill placed onsite during remediation activities. Thus, under such a scenario, the concentrations to which future residents would most likely be exposed would be best represented by the volume-weighted average concentration of CPAHs present in the top 10 ft (the depth generally evaluated for future

residential land-use scenarios) of a backyard of a hypothetical residential lot (i.e., a 1,000-square-foot backyard). Accordingly, the 10-foot volume-weighted average concentration of CPAHs present in offsite inaccessible area soil was calculated.

For the calculation of a representative concentration of CPAHs that could remain in a hypothetical backyard portion of a residential lot, the concentrations associated with the inaccessible soil and accessible unremediated area soil were combined with the assumption that the entire volume of the inaccessible soils accounted for a portion of the volume of soil within the top 10 ft in a hypothetical backyard portion of a residential lot (i.e. 10,000 cubic feet [ft<sup>3</sup>] of soil).

The discrete volumes of soil that were estimated in order to calculate the volume-weighted average concentrations within a hypothetical backyard portion of a residential lot, assuming that the offsite inaccessible area soil account for a portion of that lot, are the following:

- Total inaccessible unremediated soil volume in the offsite area is approximately 15.3 ft<sup>3</sup>, assuming the offsite inaccessible area soil (i.e., in Figure 4 of the Report) make up a 15-ft by 6-ft area with a 0.17-ft thickness;
- Total accessible unremediated soil volume estimated for soil within a hypothetical backyard portion of a residential lot (i.e. total volume of the top 10 ft of soil within a hypothetical backyard portion of a residential lot [10,000 ft<sup>3</sup>] minus inaccessible unremediated soil volume is approximately 9,984.7 ft<sup>3</sup>. This soil volume was further divided into two soil intervals; from surface to 6 ft bgs (as the depths of the remedial excavations ranged from approximately 2 ft bgs to 6 ft bgs; approximately 5984.7 ft<sup>3</sup>) and from 6 ft bgs to 10 ft bgs (where no excavation occurred; approximately 4000 ft<sup>3</sup>).

## **L.2.2 Representative Concentration in Each Volume of Soil**

The representative concentration of CPAHs for each of the discrete volumes identified above was determined in order to calculate the volume-weighted average concentration within a hypothetical backyard portion of a residential lot to which future residential populations could potentially be exposed. The concentrations of CPAHs assumed to represent the inaccessible unremediated and accessible unremediated volumes of offsite excavation area soil are described below.

### ***L.2.2.1 Inaccessible Unremediated Soil***

As previously discussed, an approximately 2-inch-thick lampblack layer was observed at approximately 1.75 ft bgs on the southern sidewall of the excavation. Sample P2-S2-1.75 was collected from within this lampblack layer. A CPAH concentration of 79.15 milligrams per kilogram (mg/kg; expressed in benzo(a)pyrene [B(a)P] equivalent concentration) was measured in this sample and considered the representative concentration for CPAHs in the total inaccessible unremediated soil volume of 15.3 ft<sup>3</sup>.

### ***L.2.2.2 Accessible Unremediated Soil***

Based on a detailed review of the post-remediation analytical data, the residual

concentrations of CPAHs in accessible unremediated soil across the offsite excavation area are relatively randomly distributed and no localized, elevated concentration area was identified. As shown in Table 10-9 of the Report, all samples, with the exception of one sample (A-OSI-5-7.0), were collected within the top 6 feet of soil. Therefore, the estimated upper confidence limit of the mean concentration (UCL) of the offsite excavation area soil dataset (excluding sample P2-S2-1.75) was used as the representative average concentration for CPAHs in the top 6 feet of accessible unremediated soil.

The summary statistics for CPAHs in accessible offsite area soil (excluding sample P2-S2-1.75) were presented in Table 10-10 of Report. The UCL concentration for CPAHs of 0.359 mg/kg for the offsite excavation area soil dataset (excluding sample P2-S2-1.75) is used as the representative average concentrations for CPAHs in the top 6 feet of accessible unremediated soil.

As previously indicated, the depths of the remedial excavations ranged from approximately 2 ft bgs to 6 ft bgs and analytical data indicated that soil below 6 ft was not impacted by CPAHs (i.e., CPAHs were not detected [ND] above laboratory reporting limits). Therefore, ND value of 0.00875 mg/kg for CPAHs (expressed in B(a)P equivalent concentration) is used as the representative average concentrations for CPAHs in accessible unremediated soil from 6 ft bgs to 10 ft bgs.

**L.2.3 Estimated Volume-Weighted Average Concentration for CPAHs in Soil**

The volume-weighted average concentration of CPAH in a hypothetical backyard portion of a residential lot is calculated by multiplying the discrete volumes of soil within the inaccessible unremediated and accessible unremediated soil layers by the representative concentrations in each respective layer. The values are summed and divided by the volume of the soil representing the top 10 feet of soils within a hypothetical backyard portion of a residential lot (i.e. 1000-square-foot area to a depth of 10 ft bgs, or 10,000 ft<sup>3</sup>) to provide an overall volume-weighted average concentration for CPAHs in all soils that could be present within this area. The volume-weighted average concentration for CPAHs, in B(a)P equivalents, calculated for a hypothetical backyard portion of a residential lot that is inclusive of the off-site inaccessible area soil, is 0.34 mg/kg. Discrete soil volumes and representative CPAH concentrations for each layer, as well as the calculated volume-weighted average concentration for CPAHs, are summarized in the table below.

Soil Layer	Soil Layer Volume (ft <sup>3</sup> )	Representative B(a)P Equivalent Concentration (mg/kg)	Layer Volume x Representative Concentration (ft <sup>3</sup> x mg/kg)
0.17-foot lampblack layer	15.3	79.15	1211
0-6 ft bgs (exclude lampblack layer)	5984.7	0.359	2149
6-10 ft bgs	4000	0.00875	35
Total	10000		3395
<b>Volume-Weighted Average (mg/kg)</b>			<b>0.34</b>

### **L.3 References**

Parsons. 2012. Final Supplemental Removal Action Workplan Off-Site Former Alameda MGP, December.

**Attachment M**

**Uncertainties in the Risk Assessment**

## **Attachment M**

### **Uncertainties in the Risk Assessment**

#### **M.1 Introduction**

Risk assessments include several uncertainties that warrant discussion. Many of the assumptions used in this post-remediation human health risk assessment (HHRA) regarding the representativeness of the sampling data, human exposures, fate and transport modeling, and chemical toxicity are conservative, following agency guidance, and reflect a 90th or 95th percentile value, rather than a typical or average value. The use of several conservative exposure and toxicity assumptions can introduce considerable uncertainty into the risk assessment. By using conservative exposure or toxicity estimates, the assessment can develop a significant conservative bias that may result in the calculation of significantly higher cancer risk or noncancer hazard than is actually posed by the MGP-related chemicals present in soil at for the offsite excavation area. A discussion of the key uncertainties used in this evaluation for this area is discussed below.

#### **M.2 Uncertainties in the Exposure Assumptions**

As described below, numerous assumptions must be made in order to estimate human exposure to chemicals of concern (COPCs) in soil at the offsite excavation area.

##### **M.2.1 Exposure Assumptions and Pathways**

Consistent with recommended California Environmental Protection Agency (Cal/EPA 2011a) default exposure assumptions, we have assumed that the residential populations evaluated in this post-remediation HHRA are directly exposed to soil on a daily basis, for a continual 30-year exposure period. The estimates of potential health risks for residents do not account for potential clean soil cover, grass, or other covering that actually would reduce exposure below that assumed in this analysis. Thus, the actual exposures to offsite excavation area soil under future residential use would probably be much lower than has been estimated in this assessment.

The selection of complete exposure pathways is another area of uncertainty in all risk assessments. In general, this post-remediation HHRA has quantified all potentially complete exposure pathways through which future hypothetical residential populations could become exposed to chemicals present in offsite excavation area soil. Accordingly, we believe that the exposure pathways quantified in this post-remediation HHRA provide a reasonable and conservative estimate of the long-term exposures that future hypothetical residential populations could incur.

Further, the assumed exposure durations used in this post-remediation HHRA represent upper-bound estimates of the total amount of time that an individual may be residing in one location. Consistent with Cal/EPA DTSC policy (Cal/EPA 2013), we have assumed that potential residents will live onsite for a continuous 30-year exposure period, and that exposure with soil will occur on a daily basis. As the average residential exposure duration in one location is actually less than 30 years, the cumulative exposures and

risks presented in this post-remediation HHRA likely represent overestimates of the more typical exposures that might be incurred in a residential setting.

We note that although inhalation of vapors in indoor air is a potentially complete exposure pathway, based on our experience, the concentrations of VOCs detected in soil are extremely low (i.e., maximum detected concentrations for acenaphthylene, anthracene, fluorene, naphthalene, phenanthrene, and pyrene are 0.22 milligrams per kilogram [mg/kg], 0.027 mg/kg, 0.11 mg/kg, 0.22 mg/kg, 4.8 mg/kg, and 106 mg/kg, respectively), and are not likely to pose a significant health risk via the inhalation of vapors in indoor air pathway. Further, the use of soil data to model vapor transport into indoor air is not recommended by the agencies (Cal/EPA, 2011b), and tends to overestimate the potential indoor air VOC concentrations to which potential receptors could be exposed. In sum, the inhalation of VOCs in indoor air is not believed to be a significant exposure pathway, and thus the fact that this pathway is not evaluated in this post-remediation HHRA is not believed to introduce significant uncertainty into the evaluation and corresponding conclusions.

### **M.2.2 Bioavailability of Chemicals in Soil**

Another exposure factor that has not been taken into account in this assessment is the bioavailability of chemicals in soil. Studies support that certain organic compounds, particularly highly lipophilic compounds such as carcinogenic polycyclic aromatic hydrocarbons (CPAHs), tend to be tightly bound to soil (Kelsey et al. 1997). This phenomenon can substantially reduce the bioavailability of chemicals to people exposed to chemicals in soil. A reduction in the bioavailability of the chemicals adsorbed to soil would reduce the projected health risk associated with exposure to these soils. Low bioavailability could substantially reduce estimated risks below levels calculated using the default assumption that all chemicals are 100% bioavailable.

### **M.2.3 Soil Exposure Point Concentrations (EPC)**

There are significant uncertainties in the estimation of the representative EPCs of the chemicals of COPCs (i.e., the upper confidence limit [UCL] of the mean concentration) when a dataset is comprised of a large proportion of non-detect (ND) values or only has a few total number of samples. Uncertainty concerning the true average concentration of a given chemical and its UCL increases with the number of samples that are NDs. That is, uncertainty increases with the number of samples where the true concentration of a chemical is an unknown value between zero and the detection limit.

In accordance with USEPA guidance (USEPA 2013), UCLs were not calculated for datasets with less than three detections or less than ten samples. Although the USEPA guidance (USEPA, 2013) recommends either the use of the mean or the median in these cases, the maximum detected concentration was conservatively used as the representative EPC. The use of maximum concentrations of COPCs detected in soil as the representative EPC will result in an overestimate of cancer risks and noncancer hazards that might be incurred under the residential scenario evaluated in this post-remediation HHRA. For example, only 5 soil samples were analyzed for lead; thus the maximum detected concentration of 80 mg/kg was used as the representative EPC to evaluate potential health risks associated with lead to hypothetical future residents. Therefore, the use of the maximum detected concentration as the representative EPC

for lead in offsite excavation area soil results in an overestimate of the predicted increase in blood lead level in a child resident and corresponding health hazards associated with lead in offsite excavation area soil.

#### **M.2.4 Fate and Transport Modeling**

The estimation of inhalation exposures to volatile chemicals in outdoor air is based on the transport of VOCs from soils to outdoor air. As discussed in the post-remediation HHRA, transport of VOCs from soils to outdoor air is modeled using the “volatilization factor” (VF) approach, where the volatilization factor is defined as the volatile chemical concentration in soils divided by the volatile chemical concentration in outdoor air. A conservative assumption incorporated into the modeling is the area of the site in the calculation of the VF. The USEPA (2002) default assumption of 0.5 acres is used in the calculation of the VF whereas the size of the off-site excavation area is considerably smaller than 0.5 acres. The larger area assumption results in a lower dispersion factor and a corresponding lower VF. The lower VF, in turn, results in a higher outdoor air concentration and corresponding higher estimate of health risks associated with the exposure to VOCs in soils via the inhalation of outdoor air vapor pathway. Thus, the estimation of VOC vapor concentrations in outdoor ambient air and corresponding projected health risks presented in this post-remediation HHRA are likely overestimated due to the conservative vapor transport methodology and assumptions used..

In addition, the modeling assumes that VOCs in soil are not undergoing biodegradation and the modeling is based on the assumption that there is an infinite source of contamination. Furthermore, the modeling of outdoor air concentrations is based on the assumption that only a single chemical is present in the subsurface. When many chemicals are present, these chemicals can interact in ways that reduce the vapor pressure of VOCs available for transport through the vadose zone. These assumptions are all likely conservative.

#### **M.3 Uncertainties in the Toxicity Assessment**

Uncertainty in the toxicity assessment arises for those chemicals which rely on animal studies as the basis for determining the appropriate toxicity value. All risk assessments assume that adverse effects observed in animal toxicity experiments would also be observed in humans (animal-to-human extrapolation), and that the toxic effect observed after exposure by one route would occur following exposure by a different route (route-to-route extrapolation).

In order to adjust for uncertainties that arise from the use of animal data, regulatory agencies often base the reference dose for noncarcinogenic effects on the most sensitive animal species (i.e., the species that experiences adverse effects at the lowest dose) and adjust the dose via the use of safety or uncertainty factors. The adjustment compensates for the lack of knowledge regarding interspecies extrapolation and possibility that humans are more sensitive than the most sensitive experimental animal species tested. The use of uncertainty factors is considered to be health protective.

Second, when route-specific toxicity data were unavailable, data were derived by route-to-route extrapolation, and equal absorption rates for both routes were assumed (i.e., oral to inhalation and inhalation to oral). This may or may not reflect the actual



differences in toxicity that can be associated with the route of exposure, but is considered to be a conservative and health-protective assumption. Finally, for dermal exposure to soil, chemical-specific absorption data generally were not available. Instead, dermal absorption rates, which were based on the default assumptions provided by the Cal/EPA (Cal/EPA, 2013), were assumed.

Cal/EPA has published a cancer potency factor for naphthalene. The cancer potency factor was based on inhalation studies with rats, conducted by the National Toxicology Program (NTP). According to Cal/EPA, the results of these inhalation studies show clear evidence of respiratory epithelial adenomas and olfactory epithelial neuroblastomas in male and female rats. As the studies are focused on the inhalation route of exposure, and as the cancers observed in these studies are associated with the respiratory system, it is possible that the observed carcinogenicity is route-specific, and would not be observed if exposures were to occur via the oral route. Nonetheless, as a conservative approach, the cancer potency factor for naphthalene developed by Cal/EPA has been applied to the oral and dermal routes of exposure in this post-remediation HHRA. Accordingly, the cancer risk for naphthalene estimated in this post-remediation HHRA is based on the assumption that inhalation, oral and dermal exposure to naphthalene present in soils could result in cancer effects.

#### **M.4 References**

- California Environmental Protection Agency (Cal/EPA). 2013. Preliminary Endangerment Assessment Guidance Manual, Department of Toxic Substances Control (DTSC), dated October.
- California Environmental Protection Agency (Cal/EPA). 2011a. *DTSC/HERD Human Health Risk Assessment (HHRA) Note Number 1. Issue: Recommended DTSC Default Exposure Factors for Use in Risk Assessment at California Hazardous Waste Sites and Permitted Facilities*. Department of Toxic Substances Control (DTSC). May 20.
- California Environmental Protection Agency (Cal/EPA). 2011b. Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air. Department of Toxic Substances Control. October.
- Kelsey, J.W., B.D. Kottler, and M. Alexander. 1997. Selective Chemical Extractants to Predict Bioavailability of Soil-Aged Organic Chemicals. *Environmental Science & Technology*, 31(1): 214-217.
- U.S. Environmental Protection Agency (USEPA). 2013. ProUCL Version 5.0.00 User Guide. Office of Research and Development. Washington, D.C. EPA/600/R-07/041. September.
- U.S. Environmental Protection Agency (USEPA). 2002. Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites. Office of Solid Waste and Emergency Response. Washington, D.C., December.

**J-126 - 7th St. Consolidated Maintenance Facility, 2300  
Seventh Street**

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June 26, 2009

Mr. Michael Mulhern  
Department of Public Works - Bureau of Engineering  
1149 South Broadway, Suite 120  
Los Angeles, CA 90015-2213

Facility ID#: 17117  
RE: Permit#: 26420

7th Street Consolidated Maintenance Facility  
2300 7th Street  
Los Angeles, California

Dear Mr. Mulhern:

The Fire Department has reviewed the Remedial Action/Final Closure Report Soil Vapor Extraction System dated May 5, 2009, submitted by URS.

This letter confirms the completion of a site investigation conducted under Division 5, Permit No. 26420 at the above site address. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquires are greatly appreciated. The Fire Department has determined that no further action is required at this site.

Based on information in the above-referenced file, and provided that the information provided to this agency was accurate and representative of site conditions, this Agency finds that the site investigation and corrective action carried out at your site under permit number 26420 is in compliance with the requirements of Subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required. This notice is issued pursuant to Subdivision (g) of Section 25296.10 of the Health and Safety Code.

Please note, this correspondence does not exempt you of any liability under the California Health and Safety Code or Water Code for past, present or future operations at this site. Additionally, you maintain responsibility to correct additional or previously unidentified conditions at the site, which cause, or may thereafter cause, pollution or nuisance, or otherwise pose a threat to water quality or public health.

If you require additional information regarding this matter, please contact Inspector Neal Reitzell of the Underground Storage Tanks – Plan Check Unit, at (213) 482-6528.

Very truly yours,

DOUGLAS L. BARRY  
Fire Chief

  
Matthew L. Gatewood, Captain II  
Commander, Environmental Unit

MLG: NR: kmr: 2300 7th Street#26420nfasa

cc: Rick Stout, URS

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## J-127 - LA Training Center, 2310 E Seventh Street

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Los Angeles Regional Water Quality Control Board

July 9, 2015

Mr. Sean Sullivan  
City of LA – General Services  
111 East 1<sup>st</sup> Street, Room 601  
Los Angeles, CA 90012

**UNDERGROUND STORAGE TANK PROGRAM – DIRECTIVE TO TAKE CORRECTIVE ACTION IN RESPONSE TO UNAUTHORIZED UNDERGROUND STORAGE TANK RELEASE PURSUANT TO HEALTH AND SAFETY CODE SECTION 25296.10 AND TITLE 23, CALIFORNIA CODE OF REGULATIONS, SECTIONS 2720-2727  
REQUEST FOR ADDITIONAL INFORMATION  
SOUTH LA TRAINING CENTER  
2310 EAST 7<sup>TH</sup> STREET, LOS ANGELES, CA.  
(CASE NO.: 900230298) (GLOBAL ID NO.: T10000007089) (PRIORITY D-1)**

Dear Mr. Sullivan:

Pursuant to Health and Safety Code section 25296.10, you are required to take corrective action (i.e., Preliminary Site Assessment, Soil and Water Investigation, Corrective Action Plan Implementation, and/or Verification Monitoring) to ensure protection of human health, safety, and the environment. Corrective action requirements are set forth in California Code of Regulations (CCR), title 23, sections 2720 through 2727.

On June 27, 2015, the City of Los Angeles Fire Department (LAFD) transmitted this case to our agency due to concerns of soil and groundwater impacts from the subject site. The California Regional Water Quality Control Board, Los Angeles Region (Regional Board), is the public agency with primary responsibility for the protection of ground and surface water quality for all beneficial uses within the Los Angeles and Ventura counties. As such, we are the lead regulatory agency for overseeing corrective action (assessment and/or monitoring activities) and cleanup of releases from leaking underground storage tank (UST) systems at the subject site (Site).

To facilitate our review and allow us to identify further required actions, please provide the following information regarding the referenced Site:

1. Facility mailing address, contact person's name, phone number, and e-mail address, if any;
2. Your telephone number and e-mail address;
3. A list of all historical and existing USTs, as well as their contents, capacities, dates of use, dates of removal, and a figure showing their location;
4. Contaminant release information (e.g., copy of Site Assessment Report);



July 9, 2015

5. UST removal and/or repair information (include tank size and contents, removal and/or repair date);
6. Tank disposal documentation, as well as soil disposal documentation (if any);
7. Copies of all previous site assessment and/or remediation report(s), except for the following documents that we have already received:
  - "Environmental Oversight for UST Removal and Soil Sampling Activities Report" dated April 28, 2015, prepared by Wayne Perry, Inc. (WP).
8. Reports of all previous soil and groundwater sample analytical results, if any;
9. Name, telephone number, and e-mail address of your environmental consultant, if any;
10. Copies of all correspondence regarding environmental assessment for the subject Site;
11. Current site use;
12. Property Owner Information:

Pursuant to the California Health and Safety Code Section 25296.20(a) and Division 7 of the Porter Cologne Water Quality Control Act under Assembly Bill 681 (AB 681), the Regional Board is required to notify all current fee title holders for the subject site or sites impacted by releases from underground storage tanks prior to considering corrective action and cleanup or case closure. If corrective action data from the site indicate that release(s) from the underground storage tank systems have impacted offsite property, we are also required to notify offsite property owners. Therefore, you are required to provide to this Regional Board the name, mailing address, and phone number for any record fee title holders for the subject site, as well as any offsite property (ies) impacted by releases from the subject site, together with a copy of county record of current ownership (grant trust deed), available from the County Recorder's Office, for each property affected. Or, you can complete this Regional Board's "Certification Declaration for Compliance with Fee Title Holder Notification Requirements" (see [www.waterboards.ca.gov/losangeles/publications\\_forms/forms/ust/ab681\\_form.pdf](http://www.waterboards.ca.gov/losangeles/publications_forms/forms/ust/ab681_form.pdf)).

Copies of future technical reports shall also be sent directly to any other property owner(s) impacted by contamination from the Site. You are also responsible to provide new contact information if the property owner(s) changes. The new owner shall comply with the requirement stated above.

The above requested information is due to this Regional Board no later than **August 9, 2015**.

CCR, title 23, sections 3890-3895 require persons to submit electronic laboratory analytical data (i.e., soil, soil gas, or water chemical analysis) and locational data (i.e., location and elevation of groundwater monitoring wells), via the Internet to the SWRCB's GeoTracker database. The regulations and other background information are available at <http://geotracker.waterboards.ca.gov>.

Therefore, you are required to submit all laboratory data obtained after September 1, 2001 to the GeoTracker database. This includes any sampling completed for underground storage tank system removal, site assessment activities, periodic groundwater monitoring, and post cleanup verification sampling. Per the same regulations, you are also required to submit locational data obtained after January 1, 2002 for all groundwater monitoring wells (i.e., latitude, longitude, and elevation survey data), groundwater well information (e.g., depth to free product, monitoring well

July 9, 2015

status), and a site map. A complete copy of all clean-up and monitoring reports since January 1, 2005, must also be submitted to GeoTracker in PDF format.

**Regulatory Requirement for Electronic Submission of Laboratory Data to the GeoTracker Database**

On September 30, 2004, the State Water Resources Control Board (SWRCB) adopted the resolution to revise regulations in Chapter 30, Division 3 of Title 23 of California Code of Regulations (CCR), which requires persons to ensure electronic submission of laboratory analytical data (i.e., soil or water chemical analysis) and locational data (i.e., location and elevation of groundwater monitoring wells), to the SWRCB's GeoTracker database. The regulations and other background information are available at <http://geotracker.waterboards.ca.gov>.

In accordance with the above regulations, you are required to submit all laboratory data in the Electronic Deliverable Format to the SWRCB's GeoTracker database for any soil and/or groundwater samples obtained after September 1, 2001. This would include any sampling completed for underground storage tank system removal, site assessment activities, periodic groundwater monitoring, and post cleanup verification sampling. Per the same regulations, you are also required to submit locational data for all groundwater monitoring wells (i.e., latitude, longitude, and elevation survey data) together with groundwater information (i.e., elevation, depth to free product, monitoring well status, etc.) and a site map commencing January 1, 2002. Hard copy paper reports, which must also be electronically uploaded onto GeoTracker, are no longer required to be submitted to Regional Board.

If you have any questions regarding this matter, please contact Mr. Errick Llamas at (213) 576-6620 or email him at [ellamas@waterboards.ca.gov](mailto:ellamas@waterboards.ca.gov).

Sincerely,



Yi Lu, Ph.D., P.G.  
Senior Engineering Geologist  
Chief of Los Angeles River Watershed Unit  
Underground Storage Tank Section

Enclosure: Leaking UST Program Certification Declaration for Compliance with Fee Title Holder Notification Requirements (Assembly Bill 681)

cc: Ms. Kathy Jundt, State Water Resources Control Board,  
Underground Storage Tank Cleanup Fund  
Ms. Phuong Ly, Water Replenishment District of Southern California  
Mr. Hani Malki, City of Los Angeles Fire Department

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## **J-133 - Former Shell Service Station, 1520 S Santa Fe Avenue**

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## State Water Resources Control Board

September 1, 2015

Ms. Andrea Wing  
Equilon Enterprises, LLC dba Shell Oil Products Company US  
20945 South Wilmington Avenue  
Carson, CA 90810

Dear Ms. Wing:

### UNDERGROUND STORAGE TANK CASE CLOSURE FOR FORMER SHELL SERVICE STATION, 1520 SOUTH SANTA FE AVENUE, LOS ANGELES, LOS ANGELES COUNTY

This letter confirms completion of a site investigation and remedial action for the underground storage tanks (USTs) case formerly located at the above-described location (Site). This case has the following identifying numbers:

- State Water Resources Control Board, (State Water Board)  
GeoTracker No. T10000005293

Thank you for your cooperation throughout this investigation. Your willingness and promptness when responding to our inquiries concerning the former USTs are greatly appreciated.

Based on information in the above-referenced case file and with the provision that the information provided to this agency was accurate and representative of Site conditions, this agency finds that the investigation and corrective action carried out at your Site is in compliance with the requirements of subdivisions (a) and (b) of section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the Site is required. This notice is issued pursuant to subdivision (g) of section 25296.10 of the Health and Safety Code.

Claims for reimbursement of corrective action costs submitted to the State Water Board UST Cleanup Fund (Fund) more than 365-days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions apply:

- Claims are submitted pursuant to section 25299.57 of the Health and Safety Code, subdivision (k) (reopened UST case); or
- Submission within the time frame was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365 day time period.

If you have any questions regarding this matter, please contact Mr. George Lockwood at (916) 341-5752 or [George.Lockwood@waterboards.ca.gov](mailto:George.Lockwood@waterboards.ca.gov).

Sincerely,



Victoria A. Whitney, Deputy Director  
Division of Water Quality

cc: [Via email only]

Mr. Samuel Unger, Executive Officer  
Los Angeles Regional Water Quality Control Board  
([Samuel.Unger@waterboards.ca.gov](mailto:Samuel.Unger@waterboards.ca.gov))

Ms. Paula Rasmussen  
Los Angeles Regional Water Quality Control Board  
([Paula.Rasmussen@waterboards.ca.gov](mailto:Paula.Rasmussen@waterboards.ca.gov))

Mr. Yue Rong  
Los Angeles Regional Water Quality Control Board  
([Yue.Rong@waterboards.ca.gov](mailto:Yue.Rong@waterboards.ca.gov))

Ms. Frances McChesney  
State Water Board  
([Frances.McChesney@waterboards.ca.gov](mailto:Frances.McChesney@waterboards.ca.gov))

Ms. Jennifer Fordyce  
State Water Board  
([Jennifer.Fordyce@waterboards.ca.gov](mailto:Jennifer.Fordyce@waterboards.ca.gov))

Mr. David Coupe  
State Water Board  
([David.Coupe@waterboards.ca.gov](mailto:David.Coupe@waterboards.ca.gov))

Mr. Steven Westhoff  
State Water Board  
([Steven.Westhoff@waterboards.ca.gov](mailto:Steven.Westhoff@waterboards.ca.gov))

Mr. George Lockwood  
State Water Board  
([George.Lockwood@waterboards.ca.gov](mailto:George.Lockwood@waterboards.ca.gov))

Mr. Matthew Cohen  
State Water Board  
([Matthew.Cohen@waterboards.ca.gov](mailto:Matthew.Cohen@waterboards.ca.gov))

cc: Continued next page

Ms. Andrea Wing

- 3 -

cc: (Continued)

Mr. Tim Smith  
Los Angeles County  
[TSmith@dpw.lacounty.gov](mailto:TSmith@dpw.lacounty.gov)

Mr. John Huff  
Wayne Perry, Inc.  
([Jhuff@wpinc.com](mailto:Jhuff@wpinc.com))



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## J-135 - So. CA Gas Olympic Base, 2424 E. Olympic Boulevard

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March 21, 2016

Mr. Patrick Movlay  
Project Manager  
Department of Toxic Substances Control  
9211 Oakdale Avenue  
Chatsworth, 91311-6505

***RE: Final Addendum to the Remedial Investigation Work Plan;  
Former Olympic Base Manufactured Gas Plant Site,  
2424 East Olympic Boulevard, Los Angeles, California***

Dear Mr. Movlay:

On Behalf of the Southern California Gas Company (SoCalGas), and at the Department of Toxic Substances Control's (DTSC) request, Parsons is submitting this Final Addendum to the Remedial Investigation Work Plan for the Former Olympic Base Manufactured Gas Plant (MGP), reviewed and approved by DTSC (Parsons, 2014). This final addendum includes the scope of work proposed to DTSC via email dated January 1, 2016, in response to DTSC comments (DTSC, 2015) recommending additional delineation of impacted soil at the Former Olympic Base Manufactured Gas Plant Site (Site). Based on the results of the site investigation completed between June and July 2014 (Parsons, 2015), DTSC and SoCalGas concurred that additional investigation is necessary to delineate polycyclic aromatic hydrocarbons (PAHs) and lead detections in soil along the eastern boundary of the Site. This addendum is supplementing the scope of work outlined in the DTSC-approved Work Plan (Parsons, 2014); implementation of this additional scope of work will be completed in accordance with its procedures.

## **1.0 Background**

The former Olympic Base MGP site (Site) is located at 2424 East Olympic Boulevard (Figure 1-1) in Los Angeles, California. SoCalGas owns a 16-acre property

(Property) at this address, approximately 7 acres of which constitute the Investigation Area (Figure 1-2). SoCalGas decided to expand the Site investigation to include both the former MGP site, as defined in a land use covenant (LUC), and an extended area to the west of the former MGP. Collectively, the area proposed for investigation in the Work Plan (Parsons, 2014) is referred to as the Investigation Area (Figure 1-2).

The SoCalGas Property is currently zoned for commercial/heavy manufacturing (M3-1), as are all adjacent properties. The Property is bounded by East Olympic Boulevard to the north, commercial properties and South Santa Fe Avenue to the west, railroad tracks to the east, and an unnamed alley and commercial properties to the south. The Los Angeles River is located to the east of the railroad tracks and within 500 feet of the Property limits (Figure 1-1).

The MGP used a gasification process that was developed in the 19th century for the production of methane (among other gases) traditionally used for municipal lighting. Through this process, oil and coal were blown through oxygen and steam while also being heated and sometimes pressurized. The reaction in this process causes the oxygen and water molecules to oxidize hydrocarbons and produce gaseous mixtures, such as carbon dioxide, carbon monoxide, and methane. Common by-products of this process are tar, lampblack, and naphthalene. Which substance is produced depends largely on the technology and the source material used in the gasification process. Historical records indicate that an MGP operated from 1907 to 1927 within the Investigation Area. During this period, the MGP operated an oil gasification process. Between 1927 and 1952, the MGP was on standby for emergency use and was later converted to a compressor station for piping natural gas. During various periods, other activities were also conducted by SoCalGas in this property, including material storage and employee training. Since 1984, the areas associated with the MGP operation were characterized by SoCalGas through multiple investigations. After completion of a multi-pathway health risk assessment by Environ, SoCalGas evaluated remedial action alternatives under the DTSC lead. In December 1991, an asphalt cap was installed at the Site as the recommended remedial alternative pursuant to the Remedial Action Plan (RAP) prepared by Dames and Moore in 1991 and implemented by Canonie Environmental in 1992, as certified by DTSC in

1992. In 2013, SoCalGas entered a Voluntary Cleanup Agreement (VCA) with the DTSC for investigation and remediation of the property. Parsons was contracted to investigate MGP impact on the property

Information and data for previous investigations is presented in detail in the Work Plan (Parsons, 2014) and is summarized in Section 2 of the Site Investigation Report (Parsons, 2015). From 1984 to 1987, SoCalGas conducted multiple subsurface investigations to determine the extent to which the former MGP operations had affected the soils, as well as any potential related impacts to groundwater. During these investigations, it was noted that soil impacts were mainly attributed to PAHs and total petroleum hydrocarbons (TPH). Some elevated organic vapor analyzer (OVA) field readings were also noted during drilling of deep soil borings (Dames & Moore, 1987). Based on these investigations, the majority of the affected soil was determined to be within the southern waste area and the northern sumps area (Dames & Moore, 1987). In 1988, a tank closure report was also completed for the removal of two underground storage tanks (USTs) in the southern portion of the former MGP. These tanks were formerly aboveground storage tanks (ASTs) located in the vicinity of grid A2; they were used as a new lubrication oil tank and a waste oil tank, and were relocated as USTs in grid C1 sometime during the mid-1940s.

Two feasibility studies were completed for the former MGP in 1988 and 1990. These feasibility studies evaluated various remedial action alternatives for the former MGP and selected a cap as the most appropriate alternative for the former MGP. In 1991, a Remedial Action Plan (RAP) and a Remedial Action Work Plan were completed for the implementation of the cap at the former MGP, which itself was completed in 1992. As part of maintenance of the cap and the consequent LUC requirements, SoCalGas has conducted periodic cap inspections and groundwater monitoring and reporting activities at the site.

In 2013, SoCalGas entered into a Voluntary Cleanup Agreement (VCA) with DTSC, Docket No. HSA-VCA 13/14-046. Parsons prepared a Work Plan (Parsons, 2014), which was approved by DTSC and was implemented during June and July 2014. The Site Investigation Report (Parsons, 2015) was prepared to summarize the results of the field

investigation conducted in June/July 2014. DTSC Geological Services Unit (GSU) provided comments (DTSC, 2015) to the Site Investigation Report (Parsons, 2015) indicating that based on the results of this investigation, elevated detections of PAHs and lead were detected in soil at boring locations A1-1, A1-2, A2-1, A3-1 and A4-1, located near eastern property boundary of the Site. Elevated PAHs were encountered in this area of the Site as deep as 37 feet below ground surface (ft bgs). As a result, DTSC recommended additional sampling between these borings and the Site's eastern property boundary. SoCalGas concurred with DTSC's comments in responses communicated via email on December 4<sup>th</sup>, 2015 (Attachment 1). The following scope of work is proposed to delineate the detections in soil at the above mentioned boring locations.

## **2.0 Scope of Work**

Parsons proposes to conduct additional soil sampling along the eastern boundary of the SoCalGas Property per the recommendations of DTSC (DTSC, 2015). The scope of work for this investigation is limited to the delineation of PAHs and lead detected in soil from previous soil borings A1-1, A1-2, A2-1, A3-1 and A4-1. As a result, the following five (5) soil borings are proposed:

- A1-3 - Delineate impacted soil east of A1-1 and A2-1 to a maximum depth of 40 ft bgs,
- A1-4 - Delineate the lateral extent of impacted soil south of boring A1-1. Soil boring A1-4 is proposed to extend to a maximum depth of 40 ft bgs, since PAH impacts at A1-1 were not delineated vertically below 18 ft bgs,
- A2-2 - Delineate the lateral extent of impacted soil east of A2-1,
- A3-2 - Delineate the lateral extent of impacted soil east of A3-1,
- A4-2 - Delineate the lateral extent of impacted soil east of A4-1.

The locations of these five soil borings are presented on Figure 2-1 and the sampling rationale is presented on Table 1. A total of thirty five (35) primary soil samples will be collected from the soil borings at the depth intervals of 1, 3, 5 ft bgs, and every 5ft thereafter. In addition, 10% of primary samples will be collected as duplicate samples, for a total of approximately four (4) duplicate samples. Primary and duplicate soil samples

will be analyzed for PAHs by Environmental Protection Agency (EPA) Method 8310 and Title 22 Metals by EPA Method 6010B and 7000 series. These samples will also be analyzed for TPHs by EPA Method 8015M in accordance with the proposed analyses for grids A1, A2, A3, and A4 in the Work Plan (Parsons, 2014). Volatile organic compounds (VOCs) will be analyzed if photoionization detector (PID) readings are detected. One trip blank and one equipment blank will be collected and analyzed for each day of field work in accordance with the Work Plan (Parsons, 2014). Soil borings will be advanced using a hollow stem auger drilling rig. This proposed targeted investigation will be conducted in accordance with all objectives, protocols, and requirements for sample collection, analysis, general field work implementation, and reporting as defined in the DTSC-approved Work Plan (Parsons, 2014).

### **3.0 Closing**

SoCalGas is preparing to implement this scope of work by the end of April 2016, pending DTSC's written approval of this addendum. Parsons will coordinate the field work schedule with DTSC's team. If you have any questions or require further information, please contact SoCalGas Project Manager Ms. Anita Bohrerud at (213) 244-5828 or the undersigned directly at 626-440-6161.

Sincerely,



Shala Craig, PhD, PE, LEED AP  
Program Manager



Table 1	Proposed Additional Investigation Soil Sampling Rationale
Figure 1-1	Property Location Map
Figure 1-2	Investigation Area Layout and Boundary Map
Figure 2-1	Proposed Additional Soil Boring Locations
Attachment 1	Response to September 11, 2015 DTSC Comments on the Site Investigation Report for the Former SoCalGas Olympic MGP Site located in Los Angeles, California, and HERO Comments Communicated Via Email on December 4, 2015.

CC:

Anita Bohrnerud, SoCalGas

Robert Howell, SoCalGas

### ***References***

DTSC, 2105. Memorandum, Site Investigation Report, Former Olympic MGP, Los Angeles, CA. March 31, 2015. PCA 12018, Site Code 300144-00, Log #20029530. September 11, 2015.

Parsons, 2014. Final Remedial Investigation Work Plan, Former Olympic Base Manufactured Gas Plant Site, 24245 East Olympic Boulevard, Los Angeles, California. May 14, 2014.

Parsons, 2015. Site Investigation Report, Former Olympic MGP, Los Angeles, CA. March 31, 2015.

## TABLE

**TABLE 1**  
**PROPOSED ADDITIONAL INVESTIGATION SOIL SAMPLING RATIONALE**  
**Former Olympic Base MGP**  
**Los Angeles, CA**

Grid Number	Rationale	Number of Borings	Total Boring Depth (ft bgs)	Total Number of Samples	Soil Matrix Analysis			Proposed Soil Matrix Sampling Criteria and Analysis
					TPH	Metals	PAHs	
A1-3	Delineate impacted soil east of A1-1 and A2-1 to a maximum depth of 40 ft bgs.	1	40	10	X	X	X	1, 3, 5, 10, 15, 20, 25, 30, 35, and 40 feet bgs; Analysis proposed for: TPH, Title 22 Metals, and PAHs; VOCs analyzed only if PID readings are detected.
A1-4	Delineate the lateral extent of impacted soil south of boring A1-1 . Soil boring A1-4 is proposed to extend to a maximum depth of 40 ft bgs, since PAH impacts at A1-1 were not delineated vertically below 18 ft bgs.	1	40	10	X	X	X	
A2-2	Delineate the lateral extent of impacted soil east of A2-1.	1	15	5	X	X	X	1, 3, 5, 10, and 15 feet bgs; Analysis proposed for: TPH, Title 22 Metals, and PAHs; VOCs analyzed only if PID readings are detected.
A3-2	Delineate the lateral extent of impacted soil east of A3-1.	1	15	5	X	X	X	
A4-2	Delineate the lateral extent of impacted soil east of A4-1	1	15	5	X	X	X	
<b>Total:</b>				<b>35</b>				

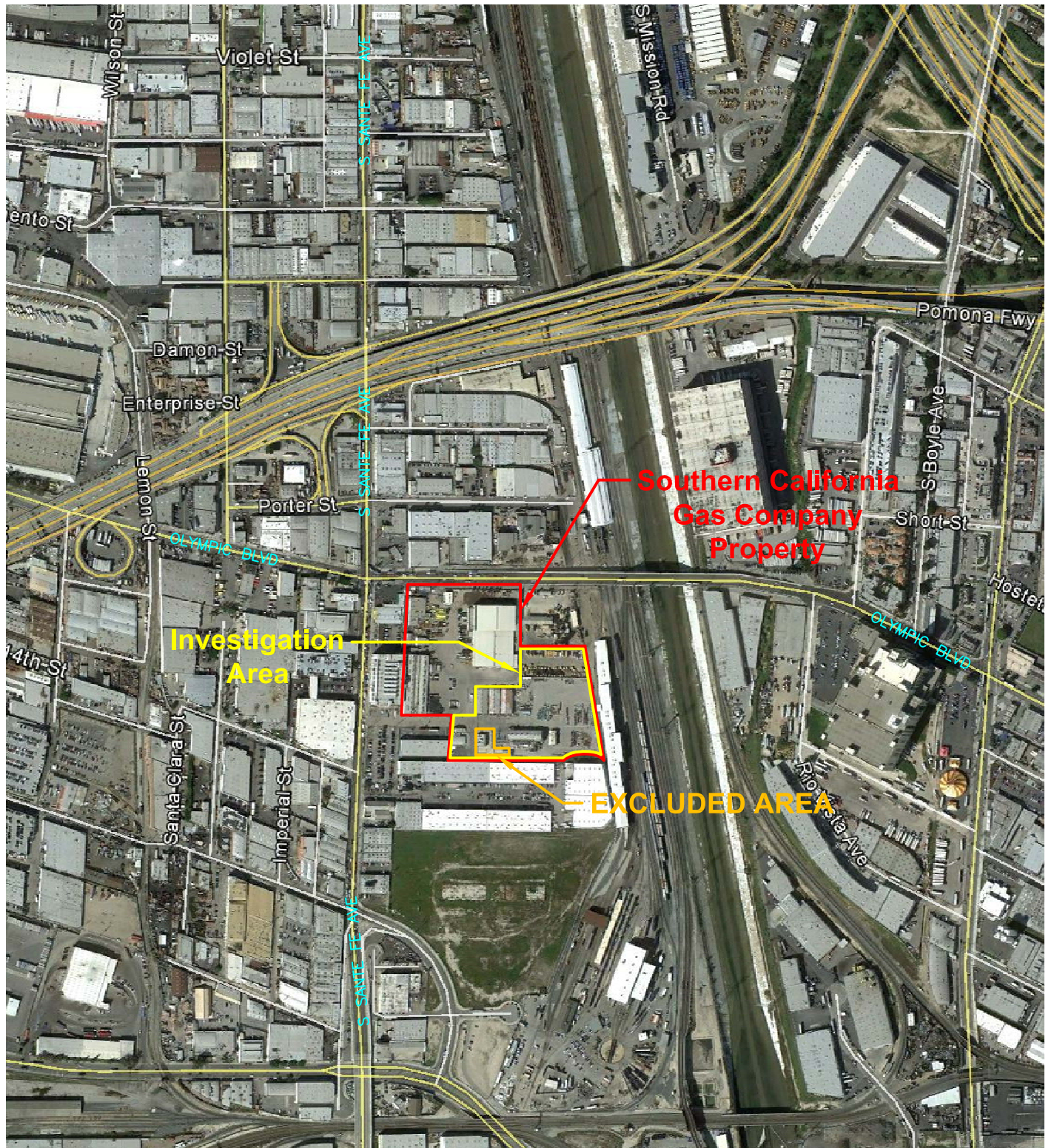
Notes:

10 % of primary samples will be collected as duplicate samples will be collected for TPH, Metals, and PAHs. A total of 4 duplicate samples are estimated.

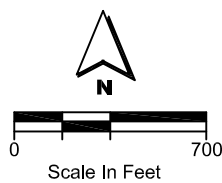
One equipment blank will be collected for TPH, Metals, and PAHs at the end of each day of sampling.

One trip blank will be collected per day of sampling.

## FIGURES



- Approximate Property Boundary
- Investigation Area Boundary
- Excluded Area - Permitted Hazardous Waste (PCB) Storage Area



**FIGURE 1-1**  
**PROPERTY LOCATION MAP**

Southern California Gas Company  
2424 E. Olympic Boulevard  
Los Angeles, CA 90021

**PARSONS**

Pasadena, CA





- Approximate Property Boundary
- Investigation Area Boundary
- Excluded Area - Permitted Hazardous Waste (PCB) Storage Area
- MGP Site Boundary and Extent of Cap
- Approximate Cap Location

**NOTES:**

1. MGP Site Boundary from Eco and Associates Asphalt Cap Management and Monitoring Report, June 2013.
2. MGP Site Boundary as depicted in DTSC Voluntary Cleanup Agreement, November 2013.

**FIGURE 1-2  
INVESTIGATION AREA LAYOUT  
AND BOUNDARY MAP**

Southern California Gas Company  
2424 E. Olympic Boulevard  
Los Angeles, CA 90021

**PARSONS**

Pasadena, CA

FIGURE 2-1

### Proposed Additional Soil Boring Locations

**PARSONS**

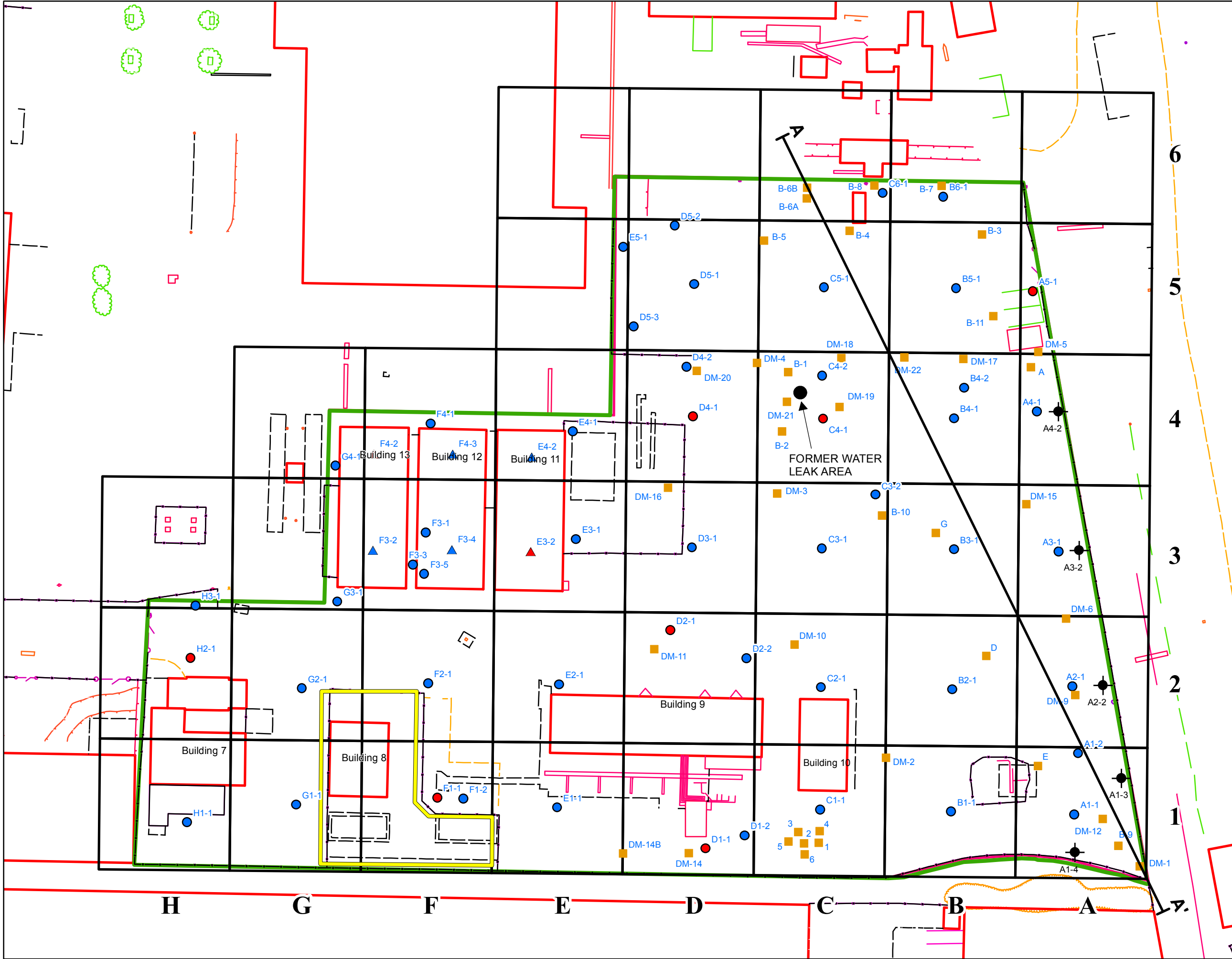
#### LEGEND

- Soil Matrix and Soil Gas Investigation Location
- ▲ Soil Matrix Only Investigation Location
- ▲ Refusal Soil Boring Location
- Approximate Dames & Moore Investigation Location
- ⊕ Proposed Boring
- Fence
- Excluded Area
- Investigation Grid
- Investigation Area Boundary

Revised 10/5/15

0 70 140 Feet

N



**ATTACHMENT 1**

**Response to September 11, 2015 DTSC Comments on the Site Investigation Report for the Former SoCalGas Olympic MGP Site located in Los Angeles, California, and HERO Comments Communicated Via Email on December 4, 2015.**



**Response to September 11, 2015 DTSC Comments on the  
Site Investigation Report for the Former SoCalGas Olympic MGP Site located in Los Angeles, California,  
and HERO Comments Communicated Via Email on December 4, 2015.**

Draft DTSC Comment	Response	Sections Affected
<b>General Comments: Bruce Garbaccio, P.G., Engineering Geologist</b>		
<p>1. The above referenced report describes the collection and results of soil matrix and soil vapor samples at the former Olympic MGP site.</p> <p>Soil vapor samples were collected at depths of 5 and 15 feet below ground surface at most locations. Samples were collected to a depth of 80 or 85 feet in three of the borings.</p> <p>Fill soil was reportedly encountered to depths to approximately 15 feet below ground surface.</p> <p>Elevated concentrations of arsenic (to 19 mg/kg), copper (to 433 mg/kg), lead (to 9,150 mg/kg), mercury (to 5.07 mg/kg), and zinc (to 6,050 mg/kg) were detected in soil samples. Elevated metals concentrations appear to be limited to fill soil at depths of 10 feet or less.</p> <p>PAHs are mostly present within fill soil, but were detected in several borings (A1-1, A1-2, and A2-1) to depths as great as 37 feet. Previous borings B-2, B-10, and DM-22 indicate the presence of elevated PAHs to depths as great as 93 feet below ground surface.</p>	<p>Comment noted.</p>	<p>None</p>

<b>Specific Comments: Bruce Garbaccio, P.G., Engineering Geologist</b>		
<p><b>1. Section 3.2.2 Background Soil Samples Results for Metals</b></p> <p>GSU staff concur that concentrations of copper, lead, and zinc in samples from the off-site background dataset are elevated. GSU does not agree that the concentrations are in line with background concentrations for soil within heavily industrialized areas. Concentrations of metals in shallow soil in industrial areas may be elevated over background concentrations.</p> <p>The concentrations of metals detected in on-site native soil appear to more closely represent background concentrations. The concentration of lead in most on-site is less than 50 mg/kg; many samples had concentrations which were below the detection limit of 2.5 mg/kg. Samples with higher concentrations appear to be at or near the interface between fill and native soil.</p> <p>GSU staff concurs that the use of background metals data should be reevaluated.</p>	<p>Comment noted.</p> <p>SoCalGas agrees that the background metal concentrations collected with DTSC concurrence are relatively high, In the event the site will be evaluated for reuse, the background data will be reevaluated.</p>	<p>None</p>
<b>Recommendations: Bruce Garbaccio, P.G., Engineering Geologist</b>		
<p>1. Elevated concentrations of PCE are present in soil vapor samples from borings C1-1 (8,300 ug/m<sup>3</sup> at 5 feet) and D1-2 (3,930 ug/ m<sup>3</sup> at 5 feet) which are located near the southern site border.</p>	<p>A workplan for additional soil gas sampling was separately submitted for DTSC review by others.</p>	<p>None</p>

<p>In order to evaluate whether elevated concentrations extend off site, GSU staff recommend that additional soil vapor sampling be conducted along the southern side of the property in this area.</p>		
<p>2. Elevated concentrations of PAHs and lead were detected in soil borings A1-1, A1-2, A2-1, A3-1, and A4-1 located near the eastern property border. Depth of fill is reported as being between 3 and 7 feet in this area, however, elevated concentrations of PAHs are present to depths of at least 15 feet (the deepest sample) in boring A2-1, at least 18 feet in boring A1-1, and 37 feet in boring A1-2.</p> <p>GSU staff recommend that additional sampling be conducted between these borings and the eastern property line to determine if impacted soil extends off site to the east.</p>	<p>Comment noted. The lateral extent of PAHs and lead between borings A1-1, A1-2, A2-1, A3-1, A4-1, and the eastern property boundary will be further assessed to evaluate the potential extent of these compounds off-site to the south and east. Note that visual observations by Dames &amp; Moore in trench logs presented in the 1987 RI report (pre-cap installation) indicate that impacted soil may be present along the eastern property boundary. A total of five additional soil borings (A1-3, A1-4, A2-2, A3-2, and A4-2) will be proposed in a separate workplan to delineate impacts encountered at locations A1-1, A1-2, A2-1, A3-1, and A4-1.</p> <p>The depth of fill was estimated based on visual observations of soil samples, where fill soil was mostly characterized by disturbed loose material containing lampblack, wood chips, and brick fragments. Note that these PAH detections are co-located with TPH detections. Occurrence of PAHs at depths below fill soil may be due to the solubilization of PAHs by TPH in this portion of the Site, which may have carried PAHs below the fill bottom.</p>	<p>None</p>

<p>3. GSU staff recommend that relevant data from previous investigations be included in the Site Investigation (SI) report. For example, borings B-2, B-10, and DM-22, which show elevated concentrations of PAHs to depths as great as 93 feet below ground surface.</p>	<p>Selected historical data from the Dames and Moore investigations is presented in Appendix F of this report. Historical results for these borings are also included in the cross section requested by GSU in comment number 4 below.</p>	<p>None</p>
<p>4. Lithologic cross sections were provided in earlier reports prepared for the site. GSU staff recommend that updated cross sections showing concentrations of metals and PAHs be provided in the SI and future reports. The depth of fill should also be shown on the cross sections.</p>	<p>Comment noted. The final report will include a cross section with soil data results. The cross section will be presented in the report as a new Figure 3-4a showing B(a)P Eq. results, Figure 3.4b showing TPH-Diesel results, and Figure 3-4c showing lead results. All other Figure numbers will be revised accordingly.</p>	<p>Add new Figures 3-4a, 3-4b, and 3-4c.</p>
<p>5. A map showing the location of the cap should be included in the SI report.</p>	<p>Comment noted. Figure 1-2 has been revised with the approximate location of the cap, based on schematic diagrams located in the July 9, 1991, Remedial Action Plan Workplan by Dames and Moore. Note that cap design drawings by Dames and Moore and as-built drawings by Canonic Environmental could not be located by Parsons during a review of SoCalGas historical files. Drawings of a cap expansion were found in the El Capitan, <i>Asphalt Cap Repair</i> report dated February 24, 1997 and submitted to DTSC. Drawings in this report indicated indicate an expansion of the cap south and north of Building 9 and to the east between Building 9 and 10. This cap expansion has been added to Figure 1-2.</p>	<p>Revised Figure 1-2</p>
<p><b>Comments from the Human and Ecological Risk Office (HERO) Communicated via email 12/4/2015</b></p>		

<p>1. The SI report is mainly a summary report for the SI activities and analytical data with limited evaluation of the sampling results. In future reports, sampling results should be compared with appropriate screening levels such as EPA RSLs and those in HERO HHRA Note 3, and concentrations exceeding these levels highlighted on data tables/figures for ease of review. In addition, HERO recommends conducting a health risk evaluation using these data along with recommendations for future site use and cleanup.</p>	<p>Comment Noted</p>	<p>None</p>
<p>2. Besides elevated PAH and TPH in soil, metals with concentrations exceeding background levels should be identified as chemicals of concern (COCs) for the site, and included in the health risk evaluation. HERO notes that soil background concentrations for a few metals are elevated as indicated in Section 3.3.2, so they may not be appropriate for use in the background evaluation.</p>	<p>Comment Noted</p>	<p>None</p>
<p>3. If soil capping is to be proposed as an interim remedy for the site, a figure should be prepared to show the existing cap as well as new cap areas and to demonstrate that all sampling locations outside the existing/proposed cap areas meet the risk-based criteria for planned site use.</p>	<p>Comment Noted. A figure showing the existing cap as well as the new cap areas will be presented in the HHRA.</p>	<p>None</p>

## J-136 - Asphalt Plant, 2484 Olympic Boulevard

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**UNDERGROUND STORAGE TANK  
LOW RISK CASE REVIEW FORM**

Case reviewer: Maryam Taidy <b>MT</b>	Unit Chief: Yi Lu <i>Yi Lu</i>	Section Chief: <b>YR</b> Yue Rong	AEO: Samuel Unger	EO: Tracy J. Egoscue
Date: <b>2/4/10</b>	Date: <i>2/8/10</i>	Date: <b>2-9-10</b>	Date: <i>Sub-17-10</i>	Date: <i>2/17/10</i>

LUSTIS File No.: <b>900210143</b>	Investigation and Cleanup Priority: <b>C-1</b>		
Site Name/Address: <b>ASPHALT PLANT #1, SITE 8/25 2484 EAST OLYMPIC BLVD LOS ANGELES, CA 90021</b>	Responsible Parties: <b>MR. MORTON PRICE</b>	Address: <b>1149 SOUTH BROADWAY, #120 LOS ANGELES, CA 90015</b>	Phone No: <b>213-237-0631</b>

**I. CASE INFORMATION (N/A = Not Applicable)**

Tank No	Size in Gallons	Contents	Closed in-place/Removed/Active?	Date
1	2,000	Gasoline	Active	2000
2	10,000	Diesel	Active	2000
3	2,000	Gasoline	Removed	2000
4	5,000	Diesel	Removed	2000
5	550	Diesel	Removed	2000

**II. SITE CHARACTERIZATION INFORMATION (GW=groundwater)**

GW Basin: Coastal Plain of Los Angeles	Beneficial uses: Mun, Ind, Proc, Agr	Note:	
Distance to nearest municipal supply well: 3,757 ft (Well ID: 02S13W10H03S)			
GW highest depth: 123	GW lowest depth: 123	Well screen interval: 20 ft	Flow direction: Unknown
Soil types: Silty sand and sand.		Maximum soil depth sampled: 160 ft bgs	

**III. SITE INSPECTION**

Pre-closure site inspection: NRQ.	Is there sensitive receptor next to the site (school, church, hospital, kindergarten etc.) None per Google search results.
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**IV. MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS -- Initial and Latest (ND=Non-detect)**

Contaminant	Soil (mg/kg)		EPA SLs*		Soil Screening Levels (mg/kg)** Depth to gw (ft) = 123 Type of soil = sand	Water (µg/L)		MCLs/NL (µg/L)
	Initial 12/00	Latest 04/07	Residential (mg/kg)	Industrial (mg/kg)		Initial	Latest	
TPH (Gas)	380	580	NE	NE	500	NRQ	NRQ	NE
TPH (Diesel)	19,000	2700	NE	NE	1,000	NRQ	NRQ	NE
Benzene	ND	0.11	1.1	5.6	0.058	NRQ	NRQ	1
Toluene	0.13	0.13	5,000	46,000	3.1	NRQ	NRQ	150
Ethylbenzene	ND	0.57	5.7	29	12.7	NRQ	NRQ	300
Xylenes	0.33	2.29	600	2,600	36	NRQ	NRQ	1,750
Methyl tertiary butyl ether (MTBE)	0.012	NA	39	190	0.061	NRQ	NRQ	13 (Primary) 5 (Secondary)
Di-isopropyl ether (DIPE)	ND	NA	NE	NE	NE	NRQ	NRQ	NE
Ethyl tertiary butyl ether (ETBE)	ND	NA	NE	NE	NE	NRQ	NRQ	NE
Tertiary amyl methyl ether (TAME)	ND	NA	NE	NE	NE	NRQ	NRQ	NE
Tertiary butyl alcohol (TBA)	ND	NA	NE	NE	NE	NRQ	NRQ	12 (NL)
Ethanol	NA	NA	NE	NE	NE	NRQ	NRQ	NE

\* SLs = USEPA Risk Based Screening Levels (May 2008)

\*\* See attached Table 4 -1

NE = not established  
NA = not analyzed

NL = notification level  
NRQ = not required



Site Name/Address:  
2484 East Olympic Blvd.

Staff Initial: MT

#### V. FREE PRODUCT

Was free product encountered? No      Has free product been totally recovered? N/A  
When was free product recovery project completed? N/A

#### VI. SOIL REMEDIATION

Methods: Excavation      Duration of remediation: December 2000  
Waste manifest document: Yes      Volume of soil disposal/mass removal: 21.59 tons

#### VII. GROUNDWATER REMEDIATION

Method: Not applicable      Duration of remediation: Not applicable

#### VIII. RECOMMENDED ACTION

Soil Closure only: No      Case Closure: Yes      Solvent Case: No  
Additional action required (i.e: additional site assessment, remediation, monitoring): No

#### IX. COMMENTS AND JUSTIFICATION FOR RECOMMENDED ACTION

##### Site Background

The site is the City of Los Angeles Asphalt Plant #1 with one 10,000-gallon diesel and one 2,000-gallon gasoline underground storage tanks (USTs). The City of Los Angeles Fire Department transferred this case to Regional Board on April 9, 2009.

##### Site Assessment, Monitoring, and Remedial Action Summary

In December 2000, one 2,000-gallon gasoline, one 5,000-gallon diesel, and one 550-gallon diesel USTs were removed from the site. Soil excavation activities were conducted on the site and 21.59 tons of soil were removed from the site. Soil samples were collected and maximum concentrations of 380 mg/kg TPHg, 19,000 mg/kg TPHd, 0.13 mg/kg toluene, 0.33 mg/kg xylenes, and 0.012mg/kg MTBE were detected in the soil samples (results seen in laboratory report dated December 2000).

In October 2001, three soil borings (PB-1 through PB-3) were drilled to a maximum depth of 80 feet bgs. Maximum concentrations of 3476.2 mg/kg TPHg, 24086 mg/kg TPHd, 0.704 mg/kg toluene, 5.892 mg/kg ethylbenzene, and 17.44 mg/kg xylenes were detected in the soil samples (results seen in Tables 1 and 2).

On December 6, 2004, four soil borings (PS-1 through PS-4) were drilled to a maximum depth of 40 feet bgs. Maximum concentrations of 786.1 mg/kg TPHg, 1078 mg/kg TPHd, 0.044 mg/kg benzene, 0.137 mg/kg ethylbenzene, 0.66 mg/kg toluene, and 0.56 mg/kg xylenes were detected in the soil samples (results seen in Table 3).

In September 2006, three soil borings (MW-1 through MW-3) were drilled to a maximum depth of 160 feet bgs. MW-2 and MW-3 were converted into a soil vapor well and a groundwater monitoring well respectively. Groundwater encountered in MW-3 at 123 feet bgs. Soil samples were collected and maximum concentrations of 1300 mg/kg TPHg, 3400 mg/kg TPHd, 0.072 mg/kg benzene, 0.87 mg/kg toluene, 16 mg/kg ethylbenzene, and 32 mg/kg xylenes were detected in the soil samples (results seen in Table 4).

In March 2007, two vapor wells (MW4 and MW5) were installed on site with a maximum depth of 160 feet bgs. Groundwater was not encountered during drilling. Soil samples were collected and maximum concentrations of 580 mg/kg TPHg, 2,700 mg/kg TPHd, 0.11 mg/kg benzene, 0.13 mg/kg toluene, 0.57 mg/kg ethylbenzene, and 2.29 mg/kg xylenes were detected in the soil samples (results seen in the laboratory report dated March 2007).

##### Subsurface Lithology

The site lithology is consisted of silty sand and sand to a maximum depth of 160 feet bgs, which is the maximum depth explored.

##### Contaminant Exposure Pathways Evaluation

###### Direct Contact

The risk of direct contact is minimal because the residual concentrations of fuel constituents in the soil were all below their respective EPA Industrial SLs.

###### Protection of Drinking Water Aquifer

The residual contamination in the soil has a low possibility to impact the underlying drinking water aquifer, because fuel constituents were below the respective soil screening levels, except for TPHd and benzene (2,700 and 0.11 mg/kg, respectively).

###### Plume Migration

Based on the soil investigation data, no groundwater wells are required on the site.

###### Vapor Intrusion

The risk of vapor intrusion is minimal because the residual benzene concentrations are below the interim vapor intrusion guidance (0.18 mg/kg of benzene at five feet bgs).

Site Name/Address:  
2484 East Olympic Blvd.

Staff Initial: MT

### Factors Supporting Low Risk Closure

Based on the above assessment, staff recommends to grant a low-risk closure for the site for the following reasons:

- The source of the contamination has been abated as the USTs have been removed and upgraded at the site.
- No free product has been observed.
- The extent of soil contamination has been adequately defined.
- The residual contamination would not cause significant human health and/or environmental risks via major pathways, such as direct contact, drinking water ingestion, groundwater plume migration, and vapor intrusion.
- The nearest production well is located about 3,757 feet away from the site.

### X. MTBE FATE & TRANSPORT PLUME LENGTH MODELING ANALYSIS

There are no groundwater monitoring wells required for this site.

### XI. ELECTRONIC DELIVERABLE FORMAT (EDF) SUBMISSION

Has electronic data reporting requirement been met? Yes

### XII. AB 681 REQUIREMENT (Land Owner Notification)

Verify property ownership <http://assessor.lacounty.gov/extranet/DataMaps/Pais.aspx> (date):

Has landowner or impacted site notification requirements been met? Yes

Landowner: City of Los Angeles

Responsible Party: Same as the owner

Pre-closure letter sent date: N/A



CALIFORNIA



Water Boards

# Site and Receptor Map

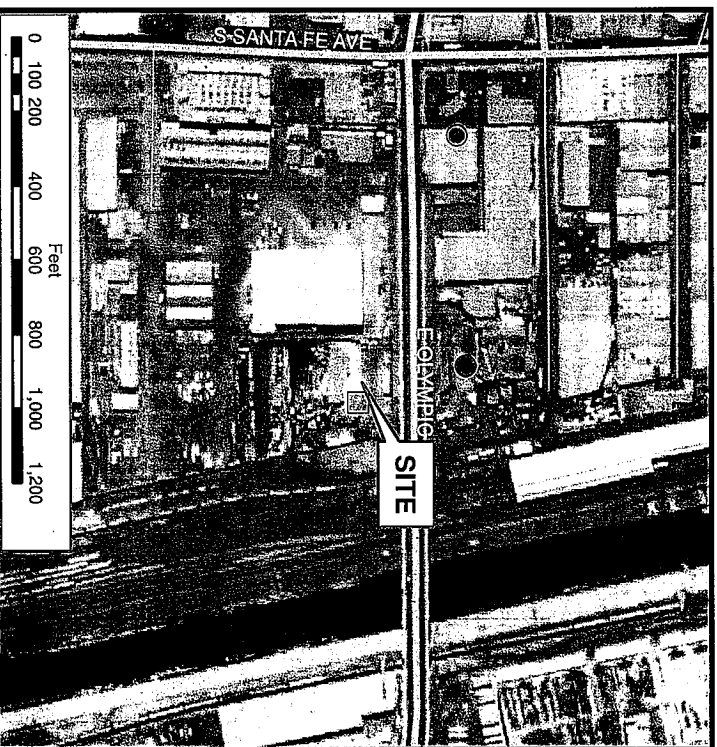
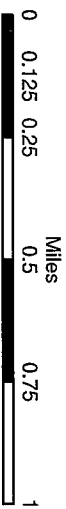


**Asphalt Plant #1, Site 8/25**  
**2484 E. Olympic Blvd.**  
**Los Angeles, CA 90021**

### LUFT Case Status

- Active, Local Agency
- Closed, Local Agency
- Active, Regional Board
- Closed, Regional Board
- ⊕ Production Wells
- Schools

Scale 1:24,000



**TABLE 1**  
**SUMMARY OF SOIL ANALYTICAL RESULTS**  
**TOTAL PETROLEUM HYDROCARBONS AND SELECTED VOLATILE ORGANIC COMPOUNDS**

ASPHALT PLANT #1  
 2484 East Olympic Boulevard  
 Los Angeles, California

Boring Number	Sample Depth (feet)	TPH C4-C12	TPH C13-C22	TPH C23-C40	Benzene	Toluene	Ethyl benzene	Xylenes
		EPA Method 8015m (in mg/kg)				EPA Method 8260 (in ug/kg)		
PB-1	10	1,932.7	4,986	270	ND < 2	ND < 2	1,776	6,207
PB-1	20	2,555.2	3,699	198	ND < 2	ND < 2	3,409	12,979
PB-1	30	1,470.5	2,677	195	ND < 2	ND < 2	1,244	4,386
PB-1	40	3,562.7	1,668	133	ND < 2	ND < 2	5,892	14,732
PB-1	50	2,556.3	4,957	509	ND < 2	ND < 2	3,568	9,081
PB-1	60	1,337.4	2,217	159	ND < 2	ND < 2	431	1,443
PB-1	70	43.4	159	36	ND < 2	89	78	55
PB-1	80	ND < 0.1	ND < 10	ND < 50	ND < 2	ND < 2	ND < 2	ND < 2
PB-2	10	3,476.2	24,086	7,016	ND < 2	ND < 2	7,357	17,440
PB-2	20	1,437.9	3,705	923	ND < 2	ND < 2	1,429	4,636
PB-2	30	1,574.4	4,554	726	ND < 2	ND < 2	1,492	3,476
PB-3	10	ND < 0.1	ND < 10	ND < 50	ND < 2	ND < 2	ND < 2	2
PB-3	20	1,499.3	3,553	26	ND < 2	ND < 2	ND < 2	ND < 2
PB-3	30	257.0	291	ND < 50	ND < 2	114	85	177
PB-3	40	2,587.4	3,951	35	ND < 2	459	594	2,760

**TABLE 1**  
**SUMMARY OF SOIL ANALYTICAL RESULTS**  
**TOTAL PETROLEUM HYDROCARBONS AND SELECTED VOLATILE ORGANIC COMPOUNDS**

ASPHALT PLANT #1  
 2484 East Olympic Boulevard  
 Los Angeles, California

Boring Number	Sample Depth (feet)	TPH C4-C12	TPH C13-C22	TPH C23-C40	Benzene	Toluene	Ethyl benzene	Xylenes
		EPA Method 8015m (in mg/kg)						
PB-3	50	1,020.8	2,156	ND < 50	ND < 2	704	329	1,236
PB-3	60	924.0	835	ND < 50	ND < 2	546	829	1,044
PB-3	70	11.2	ND < 10	ND < 50	ND < 2	ND < 2	ND < 2	5
PB-3	80	ND < 0.1	ND < 10	ND < 50	ND < 2	ND < 2	ND < 2	ND < 2

TPH - Total petroleum hydrocarbons - full range  
 ND - Not detected above the specified detection limit  
 NA - Not analyzed  
 All values reported in micrograms per kilogram (ug/kg) or milligrams per kilogram (mg/kg), as indicated.

**TABLE 2**  
**SUMMARY OF SOIL ANALYTICAL RESULTS**  
**FUEL OXYGENATES**

ASPHALT PLANT #1  
 2484 East Olympic Boulevard  
 Los Angeles, California

Boring Number	Sample Depth (feet)	ETB	TAME	DIPE	TBA	MTBE
PB-1	10	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-1	20	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-1	30	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-1	40	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-1	50	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-1	60	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-1	70	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-1	80	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-2	10	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-2	20	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-2	30	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-3	10	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-3	20	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-3	30	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-3	40	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005

**TABLE 2**  
**SUMMARY OF SOIL ANALYTICAL RESULTS**  
**FUEL OXYGENATES**

**ASPHALT PLANT #1**  
 2484 East Olympic Boulevard  
 Los Angeles, California

Boring Number	Sample Depth (feet)	ETB	TAME	DIPE	TBA	MTBE
PB-3	50	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-3	60	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-3	70	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005
PB-3	80	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005

MTBE - Methyl Tertiary Butyl Ether  
 ND - Not detected above the specified detection limit  
 NA - Not analyzed  
 All values reported in micrograms per kilogram (ug/kg)

TABLE <sup>3</sup>  
SOIL ANALYTICAL RESULTS  
VOLATILE ORGANIC COMPOUNDS

ASPHALT PLANT #1  
2484 East Olympic Boulevard  
Los Angeles, California

Compound	PS-1-1	PS1-6	PS-1-9.5	PS-1-14.5	PS-1-14.5
Acetone	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Benzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Bromodichloromethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Bromoform	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Bromomethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
2-Butanone (MEK)	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Carbon disulfide	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Carbon tetrachloride	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chloroform	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chloromethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Cyclohexane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Dibromochloromethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dibromo-3-Chloropropane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dibromoethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,3-Dichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,4-Dichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Dichlorodifluoromethane/Freon	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1-Dichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1-Dichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
cis-1,2-Dichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
trans-1,2-Dichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dichloropropane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
trans-1,3-Dichloropropene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
cis-1,3-Dichloropropene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Ethylbenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
2-Hexanone	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Heptane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Methyl acetate	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Methylcyclohexane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Methylene chloride	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
4-Methyl-2-pentanone	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Styrene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
4-Isopropyltoluene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1,1,2-Tetrachloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Tetrachloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Toluene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2,4-Trichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2



**TABLE # 3**  
**SOIL ANALYTICAL RESULTS**  
**VOLATILE ORGANIC COMPOUNDS**

ASPHALT PLANT #1  
 2484 East Olympic Boulevard  
 Los Angeles, California

Compound	PS-1-1	PS1-6	PS-1-9.5	PS-1-14.5	PS-1-14.5
1,1,1-Trichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1,2-Trichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Trichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Trichlorofluoromethane/Freon	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1,2-Trichlorotrifluoroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Vinyl chloride	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Total xylenes	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2

All reported in ug/kg  
 ug/kg - micrograms per kilogram  
 ND - Not detected above given  
 detection limit

**TABLE 3**  
**SOIL ANALYTICAL RESULTS**  
**VOLATILE ORGANIC COMPOUNDS**

ASPHALT PLANT #1  
2484 East Olympic Boulevard  
Los Angeles, California

Compound	PS-1-19.5	PS-1-24.5	PS-1-29.5	PS-1-33	PS-1-36
Acetone	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Benzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Bromodichloromethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Bromoform	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Bromomethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
2-Butanone (MEK)	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Carbon disulfide	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Carbon tetrachloride	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chloroform	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chloromethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Cyclohexane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Dibromochloromethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dibromo-3-Chloropropane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dibromoethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,3-Dichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,4-Dichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Dichlorodifluoromethane/Freon	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1-Dichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1-Dichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
cis-1,2-Dichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
trans-1,2-Dichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dichloropropane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
trans-1,3-Dichloropropene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
cis-1,3-Dichloropropene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Ethylbenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
2-Hexanone	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Heptane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Methyl acetate	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Methylcyclohexane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Methylene chloride	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
4-Methyl-2-pentanone	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Styrene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
4-Isopropyltoluene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1,2,2-Tetrachloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Tetrachloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Toluene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2,4-Trichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2

**TABLE # 3**  
**SOIL ANALYTICAL RESULTS**  
**VOLATILE ORGANIC COMPOUNDS**

ASPHALT PLANT #1  
 2484 East Olympic Boulevard  
 Los Angeles, California

Compound	PS-1-19.5	PS-1-24.5	PS-1-29.5	PS-1-33	PS-1-36
1,1,1-Trichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1,2-Trichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Trichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Trichlorofluoromethane/Freon	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1,2-Trichlorotrifluoroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Vinyl chloride	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Total xylenes	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2

All reported in ug/kg  
 ug/kg - micrograms per kilogram  
 ND - Not detected above given  
 detection limit

**TABLE 3**  
**SOIL ANALYTICAL RESULTS**  
**VOLATILE ORGANIC COMPOUNDS**

ASPHALT PLANT #1  
2484 East Olympic Boulevard  
Los Angeles, California

Compound	PS-1-40	PS-2-1	PS-2-6.5	PS-2-10	PS-3-1
Acetone	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
→ Benzene	ND < 2	ND < 2	44	ND < 2	ND < 2
Bromodichloromethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Bromoform	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Bromomethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
2-Butanone (MEK)	ND < 2	ND < 2	8,727	ND < 2	ND < 2
Carbon disulfide	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Carbon tetrachloride	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chloroform	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chloromethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Cyclohexane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Dibromochloromethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dibromo-3-Chloropropane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dibromoethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,3-Dichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,4-Dichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Dichlorodifluoromethane/Freon	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1-Dichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1-Dichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
cis-1,2-Dichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
trans-1,2-Dichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dichloropropane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
trans-1,3-Dichloropropene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
cis-1,3-Dichloropropene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
→ Ethylbenzene	ND < 2	ND < 2	21	ND < 2	ND < 2
2-Hexanone	ND < 2	ND < 2	1,057	ND < 2	ND < 2
Heptane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Methyl acetate	ND < 2	ND < 2	526	ND < 2	ND < 2
Methylcyclohexane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Methylene chloride	ND < 2	ND < 2	5,631	ND < 2	ND < 2
4-Methyl-2-pentanone	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Styrene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
4-Isopropyltoluene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1,2,2-Tetrachloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Tetrachloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
→ Toluene	ND < 2	ND < 2	68	ND < 2	ND < 2
1,2,4-Trichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2

**TABLE 3**  
**SOIL ANALYTICAL RESULTS**  
**VOLATILE ORGANIC COMPOUNDS**

ASPHALT PLANT #1  
 2484 East Olympic Boulevard  
 Los Angeles, California

Compound	PS-1-40	PS-2-1	PS-2-6.5	PS-2-10	PS-3-1
1,1,1-Trichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1,2-Trichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Trichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Trichlorofluoromethane/Freon	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1,2-Trichlorotrifluoroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Vinyl chloride	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Total xylenes	ND < 2	ND < 2	152	ND < 2	ND < 2

All reported in ug/kg  
 ug/kg - micrograms per kilogram  
 ND - Not detected above given  
 detection limit

**TABLE ~~2~~ 3**  
**SOIL ANALYTICAL RESULTS**  
**VOLATILE ORGANIC COMPOUNDS**

ASPHALT PLANT #1  
2484 East Olympic Boulevard  
Los Angeles, California

Compound	PS-3-3	PS-3-10	PS-4-1	PS-4-6.5	PS-4-10
Acetone	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Benzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Bromodichloromethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Bromoform	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Bromomethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
2-Butanone (MEK)	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Carbon disulfide	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Carbon tetrachloride	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chloroform	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Chloromethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Cyclohexane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Dibromochloromethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dibromo-3-Chloropropane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dibromoethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,3-Dichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,4-Dichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Dichlorodifluoromethane/Freon	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1-Dichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dichloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1-Dichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
cis-1,2-Dichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
trans-1,2-Dichloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,2-Dichloropropane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
trans-1,3-Dichloropropene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
cis-1,3-Dichloropropene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Ethylbenzene	137	ND < 2	ND < 2	ND < 2	ND < 2
2-Hexanone	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Heptane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Methyl acetate	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Methylcyclohexane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Methylene chloride	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
4-Methyl-2-pentanone	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Styrene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
4-Isopropyltoluene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
1,1,2,2-Tetrachloroethane	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Tetrachloroethene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2
Toluene	660	ND < 2	ND < 2	ND < 2	ND < 2
1,2,4-Trichlorobenzene	ND < 2	ND < 2	ND < 2	ND < 2	ND < 2

**TABLE 3**  
**SUMMARY OF SOIL ANALYTICAL RESULTS**  
**FUEL OXYGENATES**

ASPHALT PLANT #1  
 2484 East Olympic Boulevard  
 Los Angeles, California

Sample Number	Sample Depth (feet)	EPA Method 8260B (ug/kg)					MTBE
		ETB	TAME	DIPE	TBA		
PS-1-1	1	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-1-6	6	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-1-9.5	9.5	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-1-14.5	14.5	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-1-19.5	19.5	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-1-24.5	24.5	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-1-29.5	29.5	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-1-33	33	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-1-36	36	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-1-40	40	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-2-1	1	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-2-6.5	6.5	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-2-10	10	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-3-1	1	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-3-3	3	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-3-10	10	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	

**TABLE 3  
SUMMARY OF SOIL ANALYTICAL RESULTS  
FUEL OXYGENATES**

ASPHALT PLANT #1  
2484 East Olympic Boulevard  
Los Angeles, California

Sample Number	Sample Depth (feet)	EPA Method 8260B (ug/kg)					MTBE
		ETB	TAME	DIPE	TBA		
PS-4-1	1	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-4-6.5	6.5	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	
PS-4-10	10	ND < 0.005	ND < 0.005	ND < 0.005	ND < 0.020	ND < 0.005	

MTBE - Methyl Tertiary Butyl Ether

ND - Not detected above the specified detection limit

NA - Not analyzed

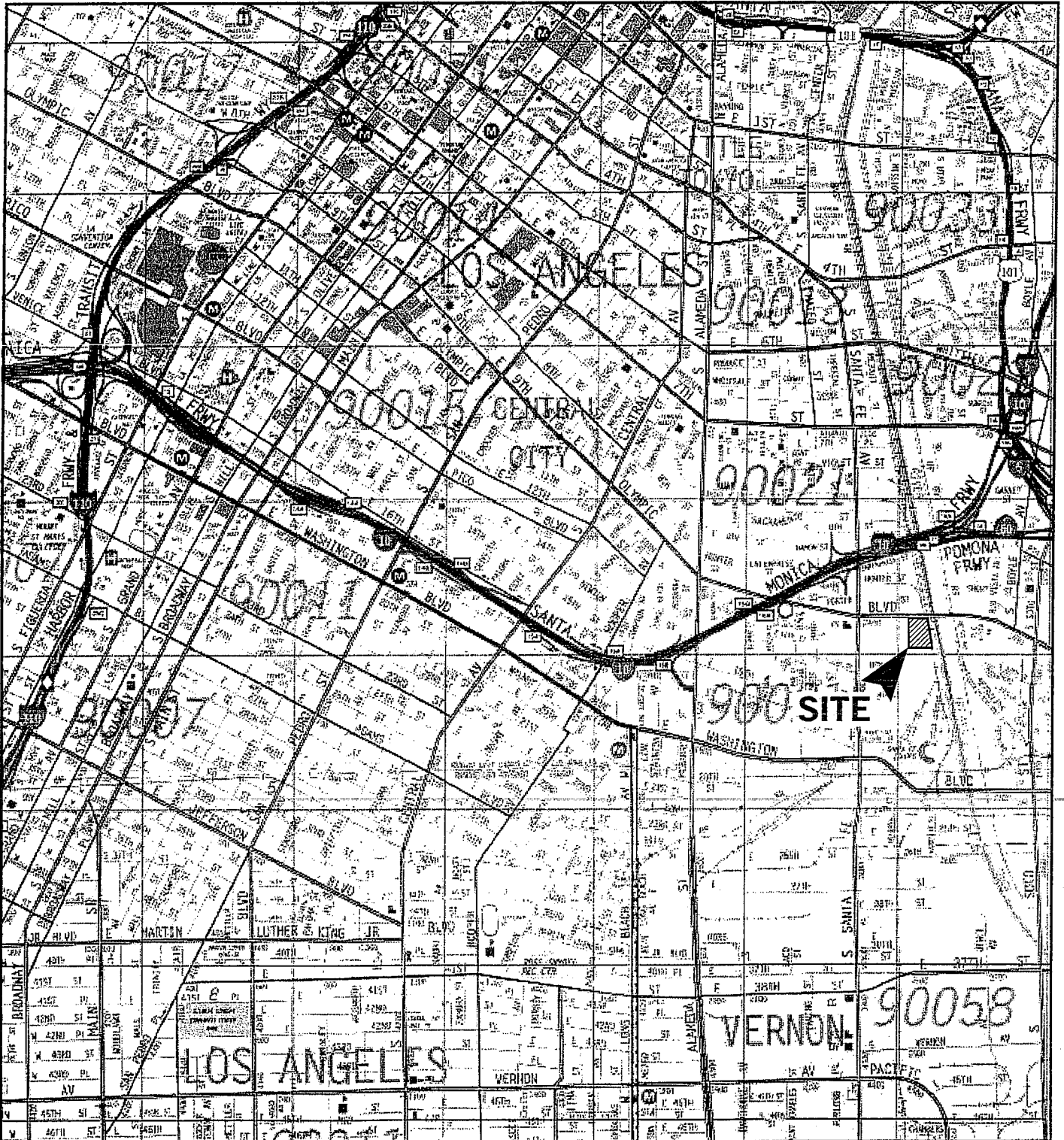
All values reported in micrograms per kilogram (ug/kg)



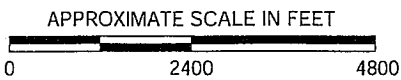
**TABLE 4- SOIL ANALYTICAL RESULTS ABOVE RESPECTIVE PRGi AND MSSSL**

Sample No.	Depth (ft bgs)	Date Sampled	VOCs (µg/kg)	SVOCs (µg/kg)	TPHg/C <sub>4</sub> -C <sub>12</sub> (mg/kg)	TPHd/C <sub>13</sub> -C <sub>22</sub> (mg/kg)	TRPH
MW4	30	3/5/2007	---	---	---	2,500	na
MW4	75	3/5/2007	---	---	580	2,700	na
MW4	160	3/5/2007	na	na	na	na	ND
MW5	65	3/6/2007	---	---	---	---	na
MW5	95	3/6/2007	---	---	---	---	na
MW5	125	3/6/2007	na	na	na	na	ND
<b>Maximum Concentration Limits</b>			N/A	N/A	MSSL - 500	MSSL - 1,000	

**Notes:**  
 PRGi – Preliminary Remediation Goal for industrial use provided by the United States Environmental Protection Agency (EPA) Region 9, dated October 2004  
 MSSSL – Maximum soil screening levels provided in the Regional Water Quality Control Board, Los Angeles Region (RWQCB) Interim Site Assessment & Cleanup Guidebook dated May 1996.  
 ft bgs – feet below ground surface  
 VOCs – volatile organic compounds by EPA Method 8260B  
 SVOCs – semi-volatile organic compounds by EPA Method 8270C  
 TPHg/C<sub>4</sub>-C<sub>12</sub> – Total Petroleum Hydrocarbons as gasoline/carbon chain gasoline range, analyzed by EPA Method 8015 modified  
 TPHd/C<sub>13</sub>-C<sub>22</sub> – Total Petroleum Hydrocarbons as diesel/carbon chain diesel range, analyzed by EPA Method 8015 modified  
 TRPH – Total Recoverable Petroleum Hydrocarbon by EPA Method 1664  
 µg/kg – micrograms per kilogram  
 mg/kg – milligrams per kilogram  
 "----" – did not exceed its respective PRGi or MSSSL  
 na – Not Analyzed  
 ND – not detected  
 N/A – PRGi (if available)



REFERENCE: 2005 THOMAS GUIDE FOR LOS ANGELES/ORANGE COUNTIES, STREET GUIDE AND DIRECTORY



NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.



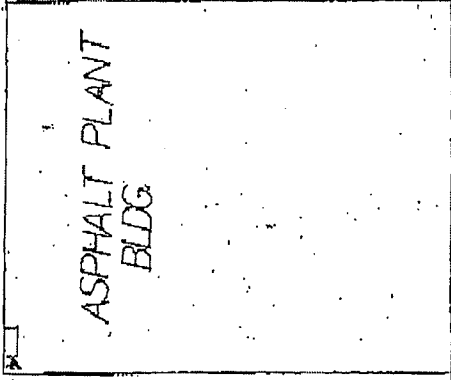
206638-A1.DWG

		<b>SITE LOCATION MAP</b>  ASPHALT PLANT NO. 1 2484 EAST OLYMPIC BOULEVARD LOS ANGELES, CALIFORNIA	FIGURE
			<b>1</b>
PROJECT NO.	DATE		
206638008	4/07		

OLYMPIC BLVD.

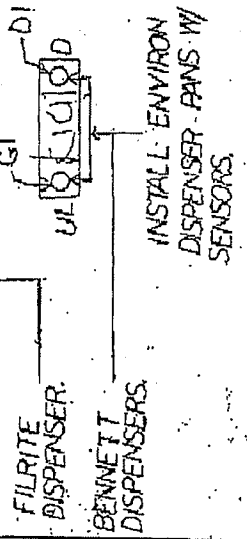
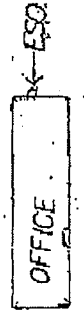


PLACE FILLS IN TURBINE SUMPS,  
 REPLACE ALL MAINWAYS/TOPHATS,  
 18" SUMP FOR LEVEL PROBE,  
 INSTALL 6-SENSORS.



INSTALL VEEDER ROOT  
 TILS 350.

SOIL SAMPLE  
 LOCATIONS - G1, D1, S1.



**SUBJECT TO FIELD INSPECTION**

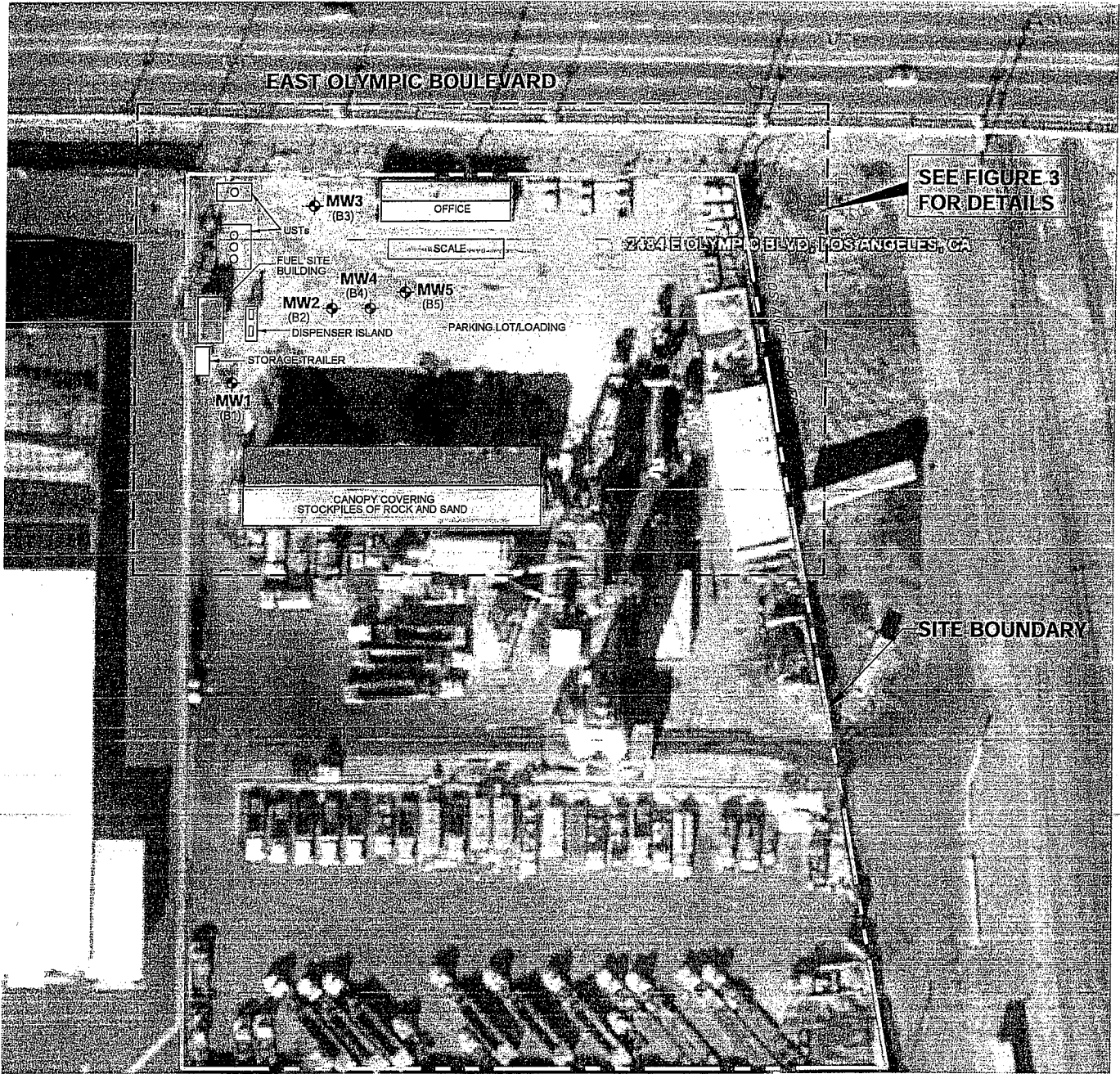
The approval of these plans and/or specifications does not exempt them from strict compliance with all other pertinent Sections of the Municipal Code And other laws and regulations.

**APPROVED**

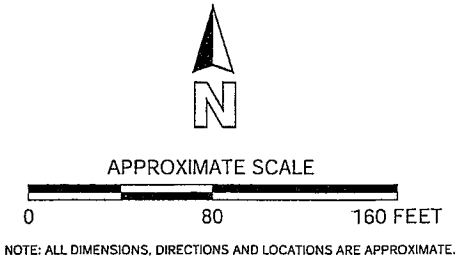
8942  
 LOS ANGELES FIRE DEPARTMENT  
 BUREAU OF FIRE PREVENTION

1-27-00

SITE: ASPHALT PLANT NO. 1  
 ADDRESS: SIMBALE OLYMPIC  
 LOS ANGELES, CA  
 CONTRACTOR: A.E. SCHMIDT ENVIRONMENTAL



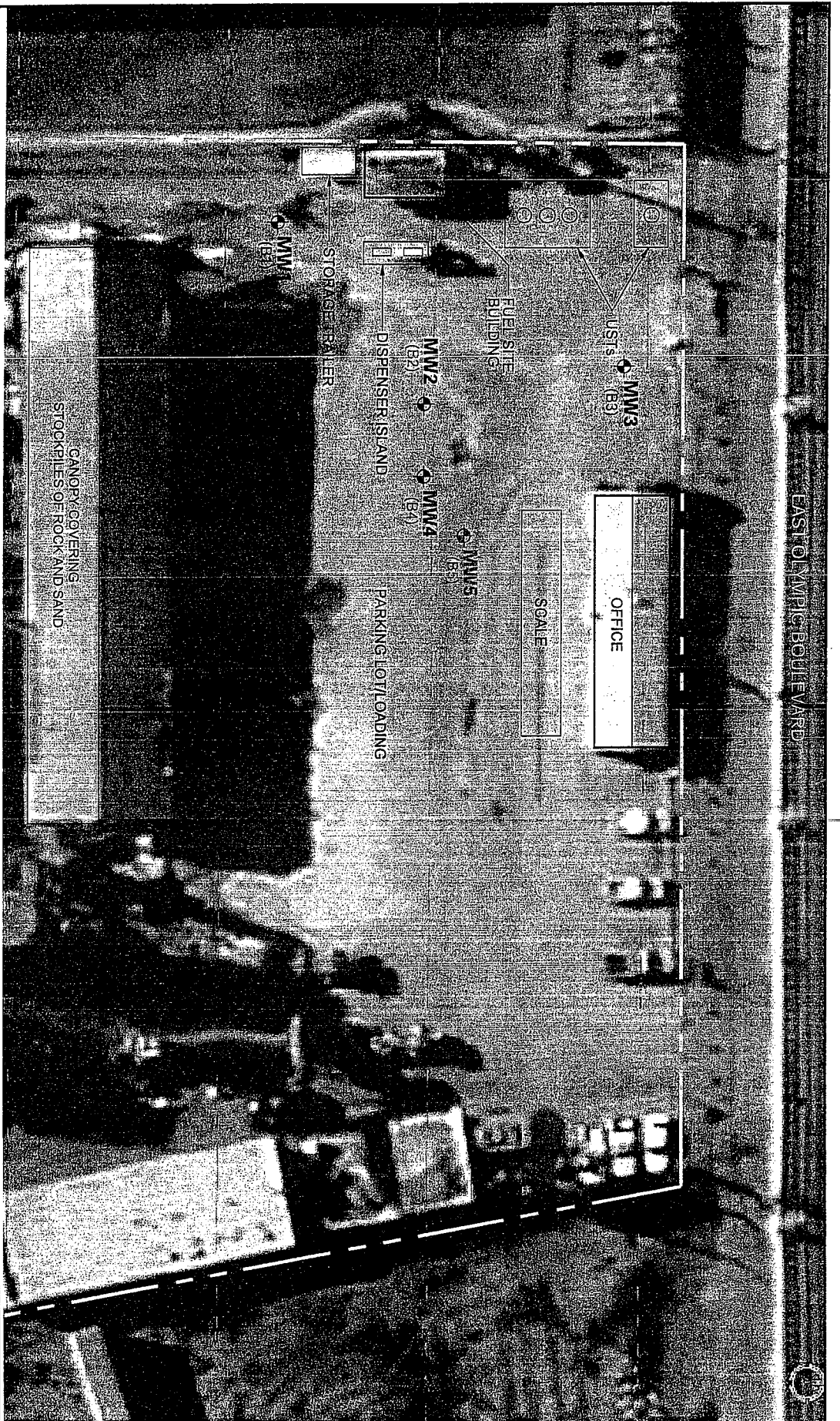
206638\_A4.DWG



LEGEND	
UST	UNDERGROUND STORAGE TANK
⊕ MW3 (B3)	APPROXIMATE BORING LOCATION (NOVEMBER 2006)
⊕ MW4 (B4)	APPROXIMATE BORING LOCATION (MARCH 2007)

		<b>SITE PLAN</b>	FIGURE  <b>2</b>
PROJECT NO.	DATE		
206638008	4/07		

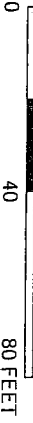




EAST OLYMPIC BOULEVARD



APPROXIMATE SCALE

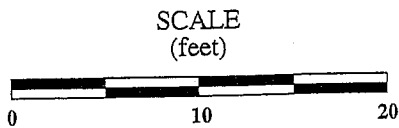
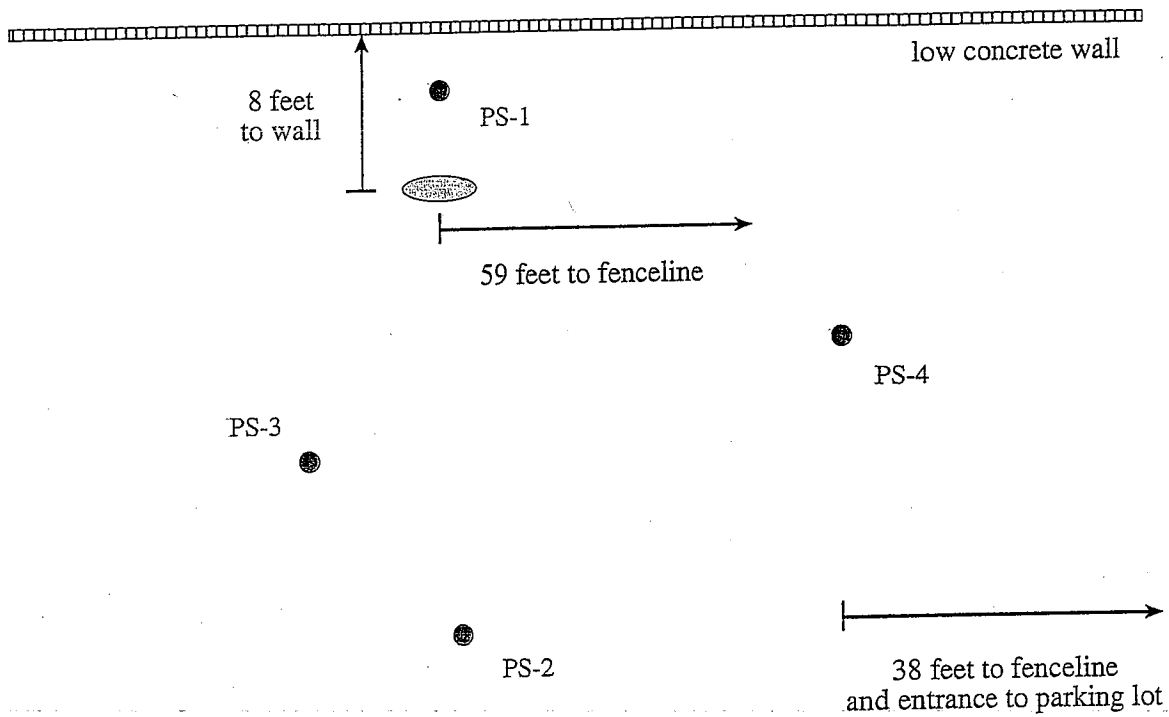


NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

<b>Ningo &amp; Moore</b>	
PROJECT NO.	DATE
206638008	4/07

LEGEND	
MW3 (B3)	APPROXIMATE BORING LOCATION OF EXPLORATORY BORING (NOVEMBER 2006)
MW4 (B4)	APPROXIMATE BORING LOCATION OF EXPLORATORY BORING (MARCH 2007)
UST	UNDERGROUND STORAGE TANK

<b>BORING LOCATION MAP</b>		FIGURE <b>3</b>
ASPHALT PLANT NO. 1 2484 EAST OLYMPIC BOULEVARD LOS ANGELES, CALIFORNIA		



**Legend**

- Pinnacle Soil Boring
- Seep



**PINNACLE**  
ENVIRONMENTAL TECHNOLOGIES  
#2 Santa Maria, Foothill Ranch, CA 92610  
Tel: (949) 470-3691 • Fax: (949) 595-0459







Asphalt Plant #1  
2484 Olympic Boulevard  
Los Angeles, California

Soil  
Boring  
Locations

Figure  
2



**LEGEND**

-  HYDRATED BENTONITE
-  HYDRATED BENTONITE GROUT
-  NUMBER 3 SAND
-  2-INCH DIAMETER BLANK PVC CASING
-  2-INCH DIAMETER 0.020-INCH SLOTTED PVC CASING
-  bgs BELOW GROUND SURFACE

NOT TO SCALE

ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

**Ninyo & Moore**

PROJECT NO.  
206638008

DATE  
4/07

**NESTED VAPOR EXTRACTION WELL  
MW5**

ASPHALT PLANT NO. 1  
2484 EAST OLYMPIC BOULEVARD  
LOS ANGELES, CALIFORNIA

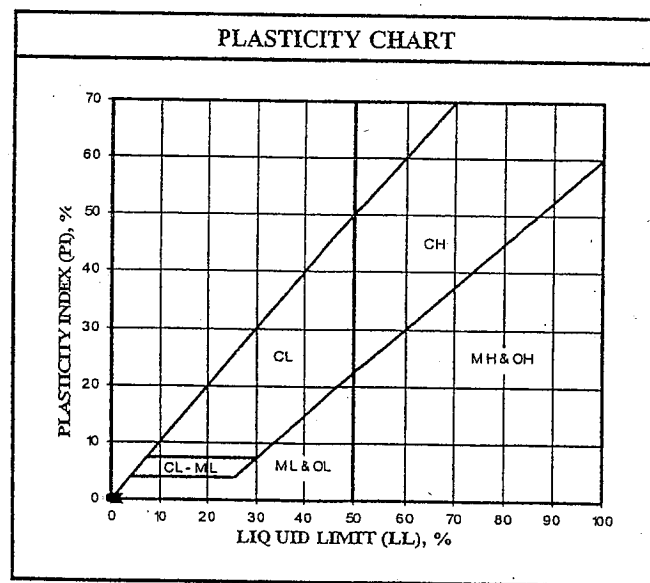
FIGURE

**C-1**

## U.S.C.S. METHOD OF SOIL CLASSIFICATION

MAJOR DIVISIONS	SYMBOL	TYPICAL NAMES			
<b>COARSE-GRAINED SOILS</b> (More than 1/2 of soil >No. 200 sieve size)	<b>GRAVELS</b> (More than 1/2 of coarse fraction > No. 4 sieve size)	GW	Well graded gravels or gravel-sand mixtures, little or no fines		
		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines		
		GM	Silty gravels, gravel-sand-silt mixtures		
		GC	Clayey gravels, gravel-sand-clay mixtures		
	<b>SANDS</b> (More than 1/2 of coarse fraction <No. 4 sieve size)	SW	Well graded sands or gravelly sands, little or no fines		
		SP	Poorly graded sands or gravelly sands, little or no fines		
		SM	Silty sands, sand-silt mixtures		
		SC	Clayey sands, sand-clay mixtures		
		<b>FINE-GRAINED SOILS</b> (More than 1/2 of soil <No. 200 sieve size)	<b>SILTS &amp; CLAYS</b> Liquid Limit <50	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean
OL	Organic silts and organic silty clays of low plasticity				
<b>SILTS &amp; CLAYS</b> Liquid Limit >50	MH		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts		
	CH		Inorganic clays of high plasticity, fat clays		
	OH		Organic clays of medium to high plasticity, organic silty clays, organic silts		
<b>HIGHLY ORGANIC SOILS</b>		Pt	Peat and other highly organic soils		

GRAIN SIZE CHART		
CLASSIFICATION	RANGE OF GRAIN SIZE	
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL	3" to No. 4	76.2 to 4.76
Coarse	3" to 3/4"	76.2 to 19.1
Fine	3/4" to No. 4	19.1 to 4.76
SAND	No. 4 to No. 200	4.76 to 0.075
Coarse	No. 4 to No. 10	4.76 to 2.00
Medium	No. 10 to No. 40	2.00 to 0.420
Fine	No. 40 to No. 200	0.420 to 0.075
SILT & CLAY	Below No. 200	Below 0.075



Ninyo & Moore

U.S.C.S. METHOD OF SOIL CLASSIFICATION



# BORING LOG EXPLANATION SHEET

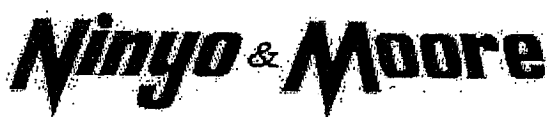
DEPTH (feet)	Bulk Driven SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	
0	■						Bulk sample.
1	■						Modified split-barrel drive sampler.
2	■						No recovery with modified split-barrel drive sampler.
3	■						Sample retained by others.
4	■						Standard Penetration Test (SPT).
5	■						No recovery with a SPT.
6	■						Shelby tube sample. Distance pushed in inches/length of sample recovered in inches.
7	■						No recovery with Shelby tube sampler.
8	■						Continuous Push Sample.
9	■						Seepage.
10	■						Groundwater encountered during drilling.
11	■						Groundwater measured after drilling.
12	■						
13	■						
14	■						
15	■						
16	■						
17	■						
18	■						
19	■						
20	■						

XX/XX

SM

- ALLUVIUM:  
 Solid line denotes unit change.  
 Dashed line denotes material change.
- Attitudes: Strike/Dip  
 b: Bedding  
 c: Contact  
 j: Joint  
 f: Fracture  
 F: Fault  
 cs: Clay Seam  
 s: Shear  
 bss: Basal Slide Surface  
 sf: Shear Fracture  
 sz: Shear Zone  
 sbs: Sheared Bedding Surface

The total depth line is a solid line that is drawn at the bottom of the boring.



BORING LOG		
EXPLANATION OF BORING LOG SYMBOLS		
PROJECT NO.	DATE Rev. 01/03	FIGURE

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	MOISTURE (%)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	WELL CONSTRUCTION	GENERAL INFORMATION					
	Bulk	Driven								DATE DRILLED	BORING NO.				
										DATE DRILLED	3/5/07	BORING NO.	MW4		
										GROUND ELEVATION	230' ± (MSL)	SHEET	1 OF 9		
										METHOD OF DRILLING	Hollow-Stem Auger				
										DRIVE WEIGHT	140 lbs.	DROP	30"		
										SAMPLED BY	CAG	LOGGED BY	CAG	REVIEWED BY	DIS
										<b>DESCRIPTION/INTERPRETATION</b>					
0										<b>ASPHALT:</b> Approximately 6 inches thick.					
								SM		<b>ALLUVIUM:</b> Dark yellowish brown (3/4 10 YR), damp, medium dense, silty SAND.					
20						2.8									
5						56				Dark gray (4/1 10 YR); dry; loose.					
10						80				Medium dense.					
15						140				Very dark grayish brown (3/2 10 YR); moist.					
20															

DEPTH (feet)	BULK DRIVEN	SAMPLES	BLOWS/FOOT	SAMPLE ID	MOISTURE (%)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	WELL CONSTRUCTION	DATE DRILLED	BORING NO.				
										3/5/07	MW4				
										GROUND ELEVATION	230' ± (MSL)	SHEET	2	OF	9
										METHOD OF DRILLING	Hollow-Stem Auger				
										DRIVE WEIGHT	140 lbs.	DROP	30"		
										SAMPLED BY	CAG	LOGGED BY	CAG	REVIEWED BY	DIS
										DESCRIPTION/INTERPRETATION					
20			50			111		SM		ALLUVIUM: (Continued) Dark gray (4/1 10 YR), dry, dense, silty SAND.					
25			46			102				Dark grayish brown (4/2 10 YR); fine to medium silty SAND; trace gravel.					
30			50			205				Black (2/1 2.5 YR); medium silty SAND.					
35			50												
40															

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	MOISTURE (%)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	WELL CONSTRUCTION	DATE DRILLED	BORING NO.	
	Bulk	Driven								3/5/07	MW4	
										GROUND ELEVATION	SHEET	
										230' ± (MSL)	3 OF 9	
										METHOD OF DRILLING		
										Hollow-Stem Auger		
										DRIVE WEIGHT	DROP	
										140 lbs.	30"	
										SAMPLED BY	LOGGED BY	REVIEWED BY
										CAG	CAG	DIS
										<b>DESCRIPTION/INTERPRETATION</b>		
40			50			180		SM		ALLUVIUM: (Continued) Gray (5/1 10 YR), dry, dense, fine to medium silty SAND; trace gravel.		
45			48			64				Black (2/1 10 YR); moist.		
50			50			69				Very dark grayish brown (3/2 10 YR); dry.		
55			50			395						
60												

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	MOISTURE (%)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	WELL CONSTRUCTION	DATE DRILLED	BORING NO.	
	Bulk	Driven								3/5/07	MW4	
										GROUND ELEVATION	SHEET	OF
										230' ± (MSL)	4	9
										METHOD OF DRILLING		
										Hollow-Stem Auger		
										DRIVE WEIGHT	DROP	
										140 lbs.	30"	
										SAMPLED BY	LOGGED BY	REVIEWED BY
										CAG	CAG	DIS
										DESCRIPTION/INTERPRETATION		
60			50					SM		ALLUVIUM: (Continued) Very dark grayish brown (3/2 10 YR), dry, dense, fine to medium silty SAND; trace gravel.		
65			69			563		ML		Dark gray (4/1 10 YR), moist, hard, fine sandy SILT.		
70			50			480				Very dark grayish brown (3/2 10 YR).		
75			58			761				Dark gray (4/1 10 YR).		
80												

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	MOISTURE (%)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	WELL CONSTRUCTION	DATE DRILLED	BORING NO.	
	Bulk	Driven								3/5/07	MW4	
										GROUND ELEVATION	SHEET	
										230' ± (MSL)	5 OF 9	
										METHOD OF DRILLING		
										Hollow-Stem Auger		
										DRIVE WEIGHT	DROP	
										140 lbs.	30"	
										SAMPLED BY	LOGGED BY	REVIEWED BY
										CAG	CAG	DIS
										DESCRIPTION/INTERPRETATION		
80			50			776		ML		ALLUVIUM: (Continued) Dark gray (4/1 10 YR), moist, hard, fine sandy SILT.		
85			50			320						
90			50			176		SP		Gray (6/1 5 Y), dry, dense, fine SAND.		
95			50			111				Moist.		
100												

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	MOISTURE (%)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	WELL CONSTRUCTION	DATE DRILLED <u>3/5/07</u> BORING NO. <u>MW4</u>	
	Bulk	Driven								GROUND ELEVATION <u>230' ± (MSL)</u>	SHEET <u>6</u> OF <u>9</u>
										METHOD OF DRILLING <u>Hollow-Stem Auger</u>	
										DRIVE WEIGHT <u>140 lbs.</u> DROP <u>30"</u>	
										SAMPLED BY <u>CAG</u> LOGGED BY <u>CAG</u> REVIEWED BY <u>DIS</u>	
										DESCRIPTION/INTERPRETATION	
100			50			110		SM		<u>ALLUVIUM: (Continued)</u> Gray (5/1 10 YR), damp, dense, fine to medium silty SAND.	
105			50			206					
110			66			63				Dark gray (4/1 10 YR).	
115			50			20				Dark gray (4/1 5 Y).	
120											

DEPTH (feet)	SAMPLES		BLOWS/FOOT	SAMPLE ID	MOISTURE (%)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	WELL CONSTRUCTION	DATE DRILLED	BORING NO.				
	Bulk	Driven								3/5/07	MW4				
										GROUND ELEVATION	SHEET	OF			
										METHOD OF DRILLING					
										DRIVE WEIGHT	140 lbs.	DROP	30"		
										SAMPLED BY	CAG	LOGGED BY	CAG	REVIEWED BY	DIS
										<b>DESCRIPTION/INTERPRETATION</b>					
120			75			2.6		SM		<b>ALLUVIUM: (Continued)</b> Very dark gray (3/1 10 YR), damp, very dense, fine to medium silty SAND.					
125			49			13.4				Very dark gray (3/1 5 YR); dense; fine silty SAND.					
130			48			8.0									
135			55			3.1									
140															



DEPTH (feet)	BULK DRIVEN SAMPLES	BLOWS/FOOT	SAMPLE ID	MOISTURE (%)	PID READING (PPM)	SYMBOL	CLASSIFICATION U.S.C.S.	WELL CONSTRUCTION	DATE DRILLED	BORING NO.				
									3/5/07	MW4				
									GROUND ELEVATION	230' ± (MSL)	SHEET	8	OF	9
									METHOD OF DRILLING	Hollow-Stem Auger				
									DRIVE WEIGHT	140 lbs.	DROP	30"		
									SAMPLED BY	CAG	LOGGED BY	CAG	REVIEWED BY	DIS
DESCRIPTION/INTERPRETATION														
140		50			16.7		SM		<u>ALLUVIUM:</u> (Continued) Dark gray (4/1 5 Y), damp, dense, fine silty SAND.					
145		50			22.8				Very dark gray (3/1 5 Y); moist; dense.					
150		50			11.2				Dark gray (4/1 5 Y); dry; dense; fine to medium silty SAND.					
155		50			9.9				Dark gray (4/1 5 YR); moist; dense; silty SAND.					
160		50												

PRELIMINARY RESULTS  
 SUBJECT TO CHANGE  
 PENDING QA/QC REVIEW

**Modified 8015 - Total Extractable Petroleum Hydrocarbons as Diesel**

Client: A.E. Schmidt Environmental      Date Sampled: 12/06/00  
 Project: Asphalt Plant #1                  Date Received: 12/07/00  
 Job No.: 17561                                  Date Extracted: 12/11/00  
 Matrix: Soil                                      Date Analyzed: 12/11-12/00  
 Analyst: JB                                        Batch Number: 8015DS2084

Sample ID	Detection Limit mg/kg	Diesel mg/kg	Surrogate (QTP) Limit: 50 - 150%
Method: Blank	10	ND	99.1%
D1	100	19,000	103%
S1	100	5,100	99.1%

*Diesel Dispenser (3 lbs)*  
*GAS Dispenser (3 lbs)*

PRELIMINARY RESULTS  
 SUBMIT CHANGE  
 PENALTY FOR QC REVIEW

Modified 8015 - Total Volatile Hydrocarbons as Gasoline

Client: A.E. Schmidt Environmental Date Sampled: 12/06/00  
 Project: Asphalt Plant #1 Date Received: 12/07/00  
 Job No.: 17581 Date Analyzed: 12/08/00  
 Matrix: Soil Batch Number: MS48015GS2324  
 Analyst: JL

Sample ID	Detection Limit mg/kg	Petroleum Hydrocarbons as Gasoline mg/kg
Method Blank	0.50	ND
G1	0.50	ND
D1	27	380
S1	27	78

EPA 8260 - Volatile Organics

Client: A.E. Schmidt Environmental  
 Project: Asphalt Plant #1  
 Job No.: 17581  
 Matrix: Soil  
 Analyst: JL

Date Sampled: 12/06/00  
 Date Received: 12/07/00  
 Date Analyzed: 12/08/00  
 Batch Number: MS4826052320

PRELIMINARY RESULTS  
 SUBJECT TO CHANGE  
 PENDING QA/QC REVIEW

Compounds	DL	Blank mg/Kg	G1 mg/Kg
cis-1,3-Dichloropropene	0.001	ND	ND
trans-1,3-Dichloropropene	0.001	ND	ND
Diisopropyl Ether (DIPE)	0.005	ND	ND
Ethylbenzene	0.001	ND	ND
Ethyl tert-Butyl Ether (EtBE)	0.005	ND	ND
Hexachlorocyclopentadiene	0.001	ND	ND
2-Hexanone	0.01	ND	ND
Isopropylbenzene	0.001	ND	ND
p-Isopropyltoluene	0.002	ND	ND
Methylcyclohexane	0.005	ND	ND
4-Methyl-2-pentanone	0.01	ND	ND
Methyl tert-Butyl Ether (MtBE)	0.005	ND	0.012
Napthalene	0.002	ND	ND
n-Propylbenzene	0.001	ND	ND
Styrene	0.001	ND	ND
1,1,2-Trichloroethane	0.001	ND	ND
1,1,2,2-Tetrachloroethane	0.002	ND	ND
Tetrachloroethane	0.001	ND	ND
Toluene	0.001	ND	0.001
1,2,3-Trichlorobenzene	0.002	ND	ND
1,2,4-Trichlorobenzene	0.002	ND	ND
1,1,1-Trichloroethane	0.001	ND	ND
1,1,2-Trichloroethane	0.003	ND	ND
Trichlorobenzene	0.001	ND	ND
1,2,3-Trichloropropane	0.003	ND	ND
Trichlorofluoroethane	0.001	ND	ND
Trichlorotrifluoroethane	0.005	ND	ND
1,2,4-Trimethylbenzene	0.001	ND	ND
1,3,5-Trimethylbenzene	0.001	ND	ND
Vinyltoluene	0.002	ND	ND
Xylenes, m- p-	0.002	ND	ND
Xylenes, o-	0.001	ND	ND

Surrogates (% recovery) Limits: 80 - 130

Sample ID:	Blank	G1
Dibromochloromethane	107	106
Toluene-d8	98	89
Bromochloroform	92	88

PRELIMINARY RESULTS  
 SUBJECT TO CHANGE  
 PENDING LABORATORY REVIEW

EPA 8260 - Volatile Organics

Client: A.E. Schmidt Environmental  
 Project: Asphalt Plant #1  
 Job No.: 17581  
 Matrix: Soil  
 Analyst: JL

Date Sampled: 12/06/00  
 Date Received: 12/07/00  
 Date Analyzed: 12/08/00  
 Batch Number: MS48260S2320

Compounds	DL	DI mg/Kg	S1 mg/Kg
Acetone	2.50	ND	ND
tert-Butyl Methyl Ether (TAME)	0.25	ND	ND
Benzene	0.05	ND	ND
Bromobenzene	0.25	ND	ND
Bromochloromethane	0.25	ND	ND
Bromodichloromethane	0.05	ND	ND
Bromoform	0.25	ND	ND
Bromomethane	0.25	ND	ND
tert-Butanol (TBA)	0.50	ND	ND
2-Butanone (MEK)	0.50	ND	ND
n-Butylbenzene	0.10	ND	0.46
sec-Butylbenzene	0.10	0.15	0.11
tert-Butylbenzene	0.10	ND	ND
Carbon disulfide	0.50	ND	ND
Carbon tetrachloride	0.05	ND	ND
Chlorobenzene	0.05	ND	ND
Chloroethane	0.25	ND	ND
Chloroform	0.10	ND	ND
Chloromethane	0.05	ND	ND
2-Chlorotoluene	0.10	ND	ND
4-Chlorotoluene	0.10	ND	ND
Dibromochloromethane	0.100	ND	ND
1,2-Dibromoethane	0.10	ND	ND
1,2-Dibromo-3-chloropropane	0.50	ND	ND
Dibromomethane	0.05	ND	ND
1,2-Dichlorobenzene	0.05	ND	ND
1,3-Dichlorobenzene	0.10	ND	ND
1,4-Dichlorobenzene	0.10	ND	ND
Dichlorodifluoromethane	0.25	ND	ND
1,1-Dichloroethane	0.05	ND	ND
1,2-Dichloroethane	0.05	ND	ND
1,1,1-Trichloroethane	0.25	ND	ND
cis-1,2-Dichloroethene	0.10	ND	ND
trans-1,2-Dichloroethene	0.10	ND	ND
1,2-Dichloropropane	0.05	ND	ND
1,3-Dichloropropane	0.05	ND	ND
2,2-Dichloropropane	0.05	ND	ND
1,1-Dichloropropane	0.05	ND	ND

EPA 8260 - Volatile Organics

PRELIMINARY RESULTS  
 SUBJECT TO CHANGE  
 PENDING QA/QC REVIEW

Client: A.E. Schmidt Environmental  
 Project: Asphalt Plant #1  
 Job No.: 17581  
 Matrix: Soil  
 Analyst: JL

Date Sampled: 12/06/00  
 Date Received: 12/07/00  
 Date Analyzed: 12/08/00  
 Batch Number: MS48260S2320

Compounds	DL	DI mg/Kg	S1 mg/Kg
cis-1,3-Dichloropropene	0.05	ND	ND
trans-1,3-Dichloropropene	0.05	ND	ND
Diisopropyl Ether (DIPE)	0.25	ND	ND
Ethylbenzene	0.05	ND	ND
Ethyl tert-Butyl Ether (EtBE)	0.25	ND	ND
Hexachlorobutadiene	0.50	ND	ND
2-Hexanone	0.50	ND	ND
Isopropylbenzene	0.05	ND	ND
p-Isopropyltoluene	0.10	0.37	ND
Methoxybenzene	2.5	ND	ND
4-Methyl-2-pentanone	0.50	ND	ND
Methyl tert-Butyl Ether (MtBE)	0.25	ND	ND
Napthalene	0.10	ND	1.1
n-Propylbenzene	0.05	ND	10.085
Styrene	0.05	ND	ND
1,1,2-Trichloroethane	0.05	ND	ND
1,1,2,2-Tetrachloroethane	0.10	ND	ND
Tetrachloroethene	0.05	ND	ND
Toluene	0.06	0.13	ND
1,2-Dichlorobenzene	0.10	ND	ND
1,2,4-Trichlorobenzene	0.10	ND	ND
1,1,1-Trichloroethane	0.05	ND	ND
1,1,2-Trichloroethane	0.15	ND	ND
Trichloroethene	0.05	ND	ND
1,2,3-Trichloropropane	0.15	ND	ND
Trichlorofluoromethane	0.05	ND	ND
Trichlorotrifluoroethane	0.25	ND	ND
1,2,4-Trimethylbenzene	0.05	ND	0.089
1,3,5-Trimethylbenzene	0.05	1.5	0.13
Xylenes, o-	0.10	ND	ND
Xylenes, m-p-	0.10	0.13	ND
Xylene, p-	0.05	0.15	ND

Surrogates (% recovery) Limits: 80 - 130

Sample ID:	DI	S1
Dibromofluoromethane	102	100
Toluene-d8	96	97
Bromofluorobenzene	72	92

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 19-Mar-07

CLIENT:	Ninyo & Moore	Client Sample ID:	MW5-65
Lab Order:	090285	Collection Date:	3/6/2007 8:54:00 AM
Project:	Asphalt Plant #1, 206638008	Matrix:	SOIL
Lab ID:	090285-009A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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HYDROCARBON CHAIN IDENTIFICATION

EPA 8015B

RunID:	GC2_070308A	QC Batch:	E07VS065	PrepDate:		Analyst:	JPA
T/R Hydrocarbons:	C4-C12	79	9.7	50	mg/Kg	50	3/8/2007 05:39 PM

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS4_070309A	QC Batch:	K07VS027	PrepDate:		Analyst:	ML
1,1,1,2-Tetrachloroethane	ND	8.3	25		µg/Kg	5	3/9/2007 04:02 PM
1,1,1-Trichloroethane	ND	6.7	25		µg/Kg	5	3/9/2007 04:02 PM
1,1,2,2-Tetrachloroethane	ND	8.8	25		µg/Kg	5	3/9/2007 04:02 PM
1,1,2-Trichloroethane	ND	13	25		µg/Kg	5	3/9/2007 04:02 PM
1,1-Dichloroethane	ND	6.7	25		µg/Kg	5	3/9/2007 04:02 PM
1,1-Dichloroethene	ND	7.3	25		µg/Kg	5	3/9/2007 04:02 PM
1,1-Dichloropropene	ND	8.5	25		µg/Kg	5	3/9/2007 04:02 PM
1,2,3-Trichlorobenzene	ND	8.2	25		µg/Kg	5	3/9/2007 04:02 PM
1,2,3-Trichloropropane	ND	8.9	25		µg/Kg	5	3/9/2007 04:02 PM
1,2,4-Trichlorobenzene	ND	7.3	25		µg/Kg	5	3/9/2007 04:02 PM
1,2,4-Trimethylbenzene	ND	5.9	25		µg/Kg	5	3/9/2007 04:02 PM
1,2-Dibromo-3-chloropropane	ND	8.6	50		µg/Kg	5	3/9/2007 04:02 PM
1,2-Dibromoethane	ND	10	25		µg/Kg	5	3/9/2007 04:02 PM
1,2-Dichlorobenzene	ND	6.3	25		µg/Kg	5	3/9/2007 04:02 PM
1,2-Dichloroethane	ND	9.1	25		µg/Kg	5	3/9/2007 04:02 PM
1,2-Dichloropropane	ND	6.8	25		µg/Kg	5	3/9/2007 04:02 PM
1,3,5-Trimethylbenzene	ND	6.3	25		µg/Kg	5	3/9/2007 04:02 PM
1,3-Dichlorobenzene	ND	8.4	25		µg/Kg	5	3/9/2007 04:02 PM
1,3-Dichloropropane	ND	9.5	25		µg/Kg	5	3/9/2007 04:02 PM
1,4-Dichlorobenzene	ND	8.0	25		µg/Kg	5	3/9/2007 04:02 PM
2,2-Dichloropropane	ND	7.3	25		µg/Kg	5	3/9/2007 04:02 PM
2-Chlorotoluene	ND	7.3	25		µg/Kg	5	3/9/2007 04:02 PM
4-Chlorotoluene	ND	5.6	25		µg/Kg	5	3/9/2007 04:02 PM
4-Isopropyltoluene	ND	7.2	25		µg/Kg	5	3/9/2007 04:02 PM
Benzene	ND	3.7	25		µg/Kg	5	3/9/2007 04:02 PM
Bromobenzene	ND	8.0	25		µg/Kg	5	3/9/2007 04:02 PM
Bromodichloromethane	ND	8.5	25		µg/Kg	5	3/9/2007 04:02 PM
Bromoform	ND	11	25		µg/Kg	5	3/9/2007 04:02 PM
Bromomethane	ND	9.1	25		µg/Kg	5	3/9/2007 04:02 PM
Carbon tetrachloride	ND	9.4	25		µg/Kg	5	3/9/2007 04:02 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out



Advanced Technology  
Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562.989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: 19-Mar-07

CLIENT: Ninyo & Moore Client Sample ID: MW5-65  
 Lab Order: 090285 Collection Date: 3/6/2007 8:54:00 AM  
 Project: Asphalt Plant #1, 206638008 Matrix: SOIL  
 Lab ID: 090285-009A

Analyses Result MDL PQL Qual Units DF Date Analyzed

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS4_070309A	QC Batch: K07VS027	PrepDate:	Analyst: ML			
Chlorobenzene	ND	7.4	25	µg/Kg	5	3/9/2007 04:02 PM
Chloroethane	ND	12	25	µg/Kg	5	3/9/2007 04:02 PM
Chloroform	ND	6.3	25	µg/Kg	5	3/9/2007 04:02 PM
Chloromethane	ND	7.7	25	µg/Kg	5	3/9/2007 04:02 PM
cis-1,2-Dichloroethene	ND	5.8	25	µg/Kg	5	3/9/2007 04:02 PM
cis-1,3-Dichloropropene	ND	5.6	25	µg/Kg	5	3/9/2007 04:02 PM
Dibromochloromethane	ND	8.6	25	µg/Kg	5	3/9/2007 04:02 PM
Dibromomethane	ND	7.7	25	µg/Kg	5	3/9/2007 04:02 PM
Dichlorodifluoromethane	ND	7.5	25	µg/Kg	5	3/9/2007 04:02 PM
Ethylbenzene	ND	3.4	25	µg/Kg	5	3/9/2007 04:02 PM
Hexachlorobutadiene	ND	9.0	25	µg/Kg	5	3/9/2007 04:02 PM
Isopropylbenzene	32	5.0	25	µg/Kg	5	3/9/2007 04:02 PM
m,p-Xylene	ND	7.1	50	µg/Kg	5	3/9/2007 04:02 PM
Methylene chloride	ND	25	25	µg/Kg	5	3/9/2007 04:02 PM
n-Butylbenzene	82	5.4	25	µg/Kg	5	3/9/2007 04:02 PM
n-Propylbenzene	27	5.7	25	µg/Kg	5	3/9/2007 04:02 PM
Naphthalene	ND	5.7	25	µg/Kg	5	3/9/2007 04:02 PM
o-Xylene	ND	2.9	25	µg/Kg	5	3/9/2007 04:02 PM
sec-Butylbenzene	100	6.6	25	µg/Kg	5	3/9/2007 04:02 PM
Styrene	ND	5.0	25	µg/Kg	5	3/9/2007 04:02 PM
tert-Butylbenzene	14	4.6	25	µg/Kg	5	3/9/2007 04:02 PM
Tetrachloroethene	ND	4.9	25	µg/Kg	5	3/9/2007 04:02 PM
Toluene	ND	4.6	25	µg/Kg	5	3/9/2007 04:02 PM
trans-1,2-Dichloroethene	ND	7.7	25	µg/Kg	5	3/9/2007 04:02 PM
Trichloroethene	ND	7.3	25	µg/Kg	5	3/9/2007 04:02 PM
Trichlorofluoromethane	ND	6.7	25	µg/Kg	5	3/9/2007 04:02 PM
Vinyl chloride	ND	8.7	25	µg/Kg	5	3/9/2007 04:02 PM

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range  
 H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit S Spike/Surrogate outside of limits due to matrix interference  
 Results are wet unless otherwise specified DO Surrogate Diluted Out



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# ANALYTICAL RESULTS

Print Date: 19-Mar-07

CLIENT:	Ninyo & Moore	Client Sample ID:	MW5-95
Lab Order:	090285	Collection Date:	3/6/2007 10:15:00 AM
Project:	Asphalt Plant #1, 206638008	Matrix:	SOIL
Lab ID:	090285-012A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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### HYDROCARBON CHAIN IDENTIFICATION

EPA 8015B

RunID:	GC2_070308A	QC Batch:	E07VS065	PrepDate:		Analyst:	JPA
T/R Hydrocarbons:	C4-C12	220	9.7	50	mg/Kg	50	3/8/2007 06:02 PM

### VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID:	MS4_070308A	QC Batch:	K07VS026	PrepDate:		Analyst:	ML
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Compound	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	83	250		µg/Kg	50	3/8/2007 05:17 PM
1,1,1-Trichloroethane	ND	67	250		µg/Kg	50	3/8/2007 05:17 PM
1,1,2,2-Tetrachloroethane	ND	88	250		µg/Kg	50	3/8/2007 05:17 PM
1,1,2-Trichloroethane	ND	130	250		µg/Kg	50	3/8/2007 05:17 PM
1,1-Dichloroethane	ND	67	250		µg/Kg	50	3/8/2007 05:17 PM
1,1-Dichloroethene	ND	73	250		µg/Kg	50	3/8/2007 05:17 PM
1,1-Dichloropropene	ND	85	250		µg/Kg	50	3/8/2007 05:17 PM
1,2,3-Trichlorobenzene	ND	82	250		µg/Kg	50	3/8/2007 05:17 PM
1,2,3-Trichloropropane	ND	89	250		µg/Kg	50	3/8/2007 05:17 PM
1,2,4-Trichlorobenzene	ND	73	250		µg/Kg	50	3/8/2007 05:17 PM
1,2,4-Trimethylbenzene	230	59	250	J	µg/Kg	50	3/8/2007 05:17 PM
1,2-Dibromo-3-chloropropane	ND	86	500		µg/Kg	50	3/8/2007 05:17 PM
1,2-Dibromoethane	ND	100	250		µg/Kg	50	3/8/2007-05:17-PM
1,2-Dichlorobenzene	ND	63	250		µg/Kg	50	3/8/2007 05:17 PM
1,2-Dichloroethane	ND	91	250		µg/Kg	50	3/8/2007 05:17 PM
1,2-Dichloropropane	ND	68	250		µg/Kg	50	3/8/2007 05:17 PM
1,3,5-Trimethylbenzene	ND	63	250		µg/Kg	50	3/8/2007 05:17 PM
1,3-Dichlorobenzene	ND	84	250		µg/Kg	50	3/8/2007 05:17 PM
1,3-Dichloropropane	ND	95	250		µg/Kg	50	3/8/2007 05:17 PM
1,4-Dichlorobenzene	ND	80	250		µg/Kg	50	3/8/2007 05:17 PM
2,2-Dichloropropane	ND	73	250		µg/Kg	50	3/8/2007 05:17 PM
2-Chlorotoluene	ND	73	250		µg/Kg	50	3/8/2007 05:17 PM
4-Chlorotoluene	ND	56	250		µg/Kg	50	3/8/2007 05:17 PM
4-Isopropyltoluene	72	72	250	J	µg/Kg	50	3/8/2007 05:17 PM
Benzene	ND	37	250		µg/Kg	50	3/8/2007 05:17 PM
Bromobenzene	ND	80	250		µg/Kg	50	3/8/2007 05:17 PM
Bromodichloromethane	ND	85	250		µg/Kg	50	3/8/2007 05:17 PM
Bromoform	ND	110	250		µg/Kg	50	3/8/2007 05:17 PM
Bromomethane	ND	91	250		µg/Kg	50	3/8/2007 05:17 PM
Carbon tetrachloride	ND	94	250		µg/Kg	50	3/8/2007 05:17 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	S Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO Surrogate Diluted Out



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ANALYTICAL RESULTS  
Print Date: 19-Mar-07

CLIENT:	Ninyo & Moore	Client Sample ID:	MW5-95
Lab Order:	090285	Collection Date:	3/6/2007 10:15:00 AM
Project:	Asphalt Plant #1, 206638008	Matrix:	SOIL
Lab ID:	090285-012A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS4_070308A	QC Batch: K07VS026	PrepDate:	Analyst: ML
Chlorobenzene	ND 74 250	µg/Kg	50 3/8/2007 05:17 PM
Chloroethane	ND 120 250	µg/Kg	50 3/8/2007 05:17 PM
Chloroform	ND 63 250	µg/Kg	50 3/8/2007 05:17 PM
Chloromethane	ND 77 250	µg/Kg	50 3/8/2007 05:17 PM
cis-1,2-Dichloroethene	ND 58 250	µg/Kg	50 3/8/2007 05:17 PM
cis-1,3-Dichloropropene	ND 56 250	µg/Kg	50 3/8/2007 05:17 PM
Dibromochloromethane	ND 86 250	µg/Kg	50 3/8/2007 05:17 PM
Dibromomethane	ND 77 250	µg/Kg	50 3/8/2007 05:17 PM
Dichlorodifluoromethane	ND 75 250	µg/Kg	50 3/8/2007 05:17 PM
Ethylbenzene	ND 34 250	µg/Kg	50 3/8/2007 05:17 PM
Hexachlorobutadiene	ND 90 250	µg/Kg	50 3/8/2007 05:17 PM
Isopropylbenzene	310 50 250	µg/Kg	50 3/8/2007 05:17 PM
m,p-Xylene	ND 71 500	µg/Kg	50 3/8/2007 05:17 PM
Methylene chloride	ND 250 250	µg/Kg	50 3/8/2007 05:17 PM
n-Butylbenzene	230 54 250	µg/Kg	50 3/8/2007 05:17 PM
n-Propylbenzene	460 57 250	µg/Kg	50 3/8/2007 05:17 PM
Naphthalene	350 57 250	µg/Kg	50 3/8/2007 05:17 PM
o-Xylene	ND 29 250	µg/Kg	50 3/8/2007 05:17 PM
sec-Butylbenzene	310 66 250	µg/Kg	50 3/8/2007 05:17 PM
Styrene	ND 50 250	µg/Kg	50 3/8/2007 05:17 PM
tert-Butylbenzene	ND 46 250	µg/Kg	50 3/8/2007 05:17 PM
Tetrachloroethene	ND 49 250	µg/Kg	50 3/8/2007 05:17 PM
Toluene	ND 46 250	µg/Kg	50 3/8/2007 05:17 PM
trans-1,2-Dichloroethene	ND 77 250	µg/Kg	50 3/8/2007 05:17 PM
Trichloroethene	ND 73 250	µg/Kg	50 3/8/2007 05:17 PM
Trichlorofluoromethane	ND 67 250	µg/Kg	50 3/8/2007 05:17 PM
Vinyl chloride	ND 87 250	µg/Kg	50 3/8/2007 05:17 PM

Qualifiers:	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	S Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO Surrogate Diluted Out



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ANALYTICAL RESULTS

Print Date: 19-Mar-07

CLIENT:	Ninyo & Moore	Client Sample ID:	MW5-65
Lab Order:	090285	Collection Date:	3/6/2007 8:54:00 AM
Project:	Asphalt Plant #1, 206638008	Matrix:	SOIL
Lab ID:	090285-009		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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HYDROCARBON CHAIN IDENTIFICATION

EPA 3550B

EPA 8015B(M)

RunID:	GC7_BACK_070309A	QC Batch:	34057	PrepDate:	3/9/2007	Analyst:	CBR
T/R Hydrocarbons:	C13-C22	270	10	mg/Kg	10	3/10/2007	02:16 PM
T/R Hydrocarbons:	C23-C32	58	10	mg/Kg	10	3/10/2007	02:16 PM
T/R Hydrocarbons:	C33-C40	10	10	mg/Kg	10	3/10/2007	02:16 PM

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 3550B

EPA 8270C

RunID:	MS7_070312A	QC Batch:	34095	PrepDate:	3/12/2007	Analyst:	MFR
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	3/12/2007	02:00 PM
1,2-Dichlorobenzene	ND	330		µg/Kg	1	3/12/2007	02:00 PM
1,3-Dichlorobenzene	ND	330		µg/Kg	1	3/12/2007	02:00 PM
1,4-Dichlorobenzene	ND	330		µg/Kg	1	3/12/2007	02:00 PM
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	3/12/2007	02:00 PM
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	3/12/2007	02:00 PM
2,4-Dichlorophenol	ND	1600		µg/Kg	1	3/12/2007	02:00 PM
2,4-Dimethylphenol	ND	330		µg/Kg	1	3/12/2007	02:00 PM
2,4-Dinitrophenol	ND	1600		µg/Kg	1	3/12/2007	02:00 PM
2,4-Dinitrotoluene	ND	330		µg/Kg	1	3/12/2007	02:00 PM
2,6-Dinitrotoluene	ND	330		µg/Kg	1	3/12/2007	02:00 PM
2-Chloronaphthalene	ND	330		µg/Kg	1	3/12/2007	02:00 PM
2-Chlorophenol	ND	330		µg/Kg	1	3/12/2007	02:00 PM
2-Methylnaphthalene	ND	330		µg/Kg	1	3/12/2007	02:00 PM
2-Methylphenol	ND	330		µg/Kg	1	3/12/2007	02:00 PM
2-Nitroaniline	ND	1600		µg/Kg	1	3/12/2007	02:00 PM
2-Nitrophenol	ND	330		µg/Kg	1	3/12/2007	02:00 PM
3,3'-Dichlorobenzidine	ND	660		µg/Kg	1	3/12/2007	02:00 PM
3-Nitroaniline	ND	1600		µg/Kg	1	3/12/2007	02:00 PM
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	3/12/2007	02:00 PM
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	3/12/2007	02:00 PM
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	3/12/2007	02:00 PM
4-Chloroaniline	ND	660		µg/Kg	1	3/12/2007	02:00 PM
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	3/12/2007	02:00 PM
4-Methylphenol	ND	330		µg/Kg	1	3/12/2007	02:00 PM
4-Nitroaniline	ND	1600		µg/Kg	1	3/12/2007	02:00 PM
4-Nitrophenol	ND	1600		µg/Kg	1	3/12/2007	02:00 PM
Acenaphthene	ND	330		µg/Kg	1	3/12/2007	02:00 PM
Acenaphthylene	ND	330		µg/Kg	1	3/12/2007	02:00 PM
Anthracene	ND	330		µg/Kg	1	3/12/2007	02:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		



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