



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Dr., Diamond Bar, CA 91765-4182

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

(Page 1 of 10)

To: Rafael Reynosa
Sr. Enforcement Manager
Compliance & Enforcement

Laboratory No. 1928901-01 to -03

Requested By Thomas Lee

Rule No. NA

Sampling Location

Southern California Gas Company
12801 Tampa Avenue
Porter Ranch, CA 91326

ST No. NA

Report Created 10/22/2019

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS, AND RESULTS

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS) - Tentatively Identified

See attached results and sample information.

Reviewed By:

Stephen Dutz
Principal A.Q. Chemist
Laboratory Services

Date Reviewed:

10/22/19

Approved By:

Aaron Katzenstein, Ph.D.
Senior Manager
Laboratory Services
(909) 396-2219

Date Approved:

10/22/2019



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Dr., Diamond Bar, CA 91765-4182

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

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Laboratory No. 1928901-01
Sample Description SILCO Canister E5755, Gas sample from soil after fire was extinguished & cooled, collected by Geosyntec
Extraction Comments Sample diluted from can E5755 to E3758 (419x)
Sample Date 10/15/2019 **Received Date** 10/16/2019 **Analyzed Date** 10/17/2019

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
1,1,1-Trichloroethane, ppbv	ND	42	42	0.1
1,1,2,2-Tetrachloroethane, ppbv	ND	42	42	<0.1
1,1,2-Trichloroethane, ppbv	ND	42	42	<0.1
1,1-Dichloroethane, ppbv	ND	42	42	<0.1
1,1-Dichloroethylene, ppbv	ND	42	42	
1,2,4-Trichlorobenzene, ppbv	AS	42	42	<0.1
1,2,4-Trimethylbenzene, ppbv	ND	42	42	0.1
1,2-Dibromoethane, ppbv	ND	42	42	
1,2-Dichlorobenzene, ppbv	ND	42	42	
1,2-Dichloroethane, ppbv	ND	42	42	
1,2-Dichloropropane, ppbv	ND	42	42	<0.1
1,3,5-Trimethylbenzene, ppbv	ND	42	42	0.1
1,3-Butadiene, ppbv	ND	42	42	<0.1
1,3-Dichlorobenzene, ppbv	ND	42	42	
1,4-Dichlorobenzene, ppbv	ND	42	42	
1,4-Dioxane, ppbv	ND	42	42	<0.1
2-Butanone (MEK), ppbv	ND	42	42	0.3
2-Hexanone (MBK), ppbv	ND	42	42	
2-Propenal, ppbv	ND	42	42	
Acetone, ppbv	BH	42	42	7.7
Benzene, ppbv	88	42	42	0.6
Benzyl chloride, ppbv	ND	42	42	<0.1
Bromodichloromethane, ppbv	ND	42	42	<0.1
Bromoform, ppbv	ND	42	42	<0.1
Bromomethane, ppbv	ND	42	42	<0.1
Carbon disulfide, ppbv	ND	42	42	<0.1
Carbon Tetrachloride, ppbv	ND	42	42	0.1
Chlorobenzene, ppbv	ND	42	42	<0.1
Chloroethane, ppbv	ND	42	42	<0.1
Chloroform, ppbv	ND	42	42	<0.1



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Laboratory No. 1928901-01 - continued
Sample Description SILCO Canister E5755, Gas sample from soil after fire was extinguished & cooled, collected by Geosyntec
Extraction Comments Sample diluted from can E5755 to E3758 (419x)
Sample Date 10/15/2019 **Received Date 10/16/2019** **Analyzed Date 10/17/2019**

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
Chloromethane, ppbv	ND	42	42	0.6
cis-1,2-Dichloroethylene, ppbv	ND	42	42	
cis-1,3-Dichloropropene, ppbv	ND	42	42	
Cyclohexane, ppbv	250	42	42	0.1
Dibromochloromethane, ppbv	ND	42	42	<0.1
Dichlorodifluoromethane (Freon 12), ppbv	ND	42	42	0.5
Dichlorotetrafluoroethane (Freon 114), ppbv	ND	42	42	<0.1
Ethanol, ppbv	AS	42	42	7.3
Ethyl Acetate, ppbv	AS	42	42	<0.1
Ethylbenzene, ppbv	ND	42	42	0.2
Hexachloro-1,3-butadiene, ppbv	AS	42	42	
Isopropanol, ppbv	AS	42	42	
m+p-Xylene, ppbv	ND	42	42	0.6
Methyl Isobutyl Ketone (MIBK), ppbv	ND	42	42	
Methyl Methacrylate, ppbv	ND	42	42	
Methyl tert-Butyl Ether (MTBE), ppbv	ND	42	42	
Methylene Chloride, ppbv	ND	42	42	0.2
Naphthalene, ppbv	AS	42	42	
n-Heptane, ppbv	ND	42	42	0.2
n-Hexane, ppbv	84	42	42	0.1
o-Xylene, ppbv	ND	42	42	0.2
p-Ethyltoluene, ppbv	ND	42	42	
Propylene, ppbv	50	42	42	0.5
Styrene, ppbv	ND	42	42	0.1
Tetrachloroethylene, ppbv	ND	42	42	
Tetrahydrofuran, ppbv	ND	42	42	<0.1
Toluene, ppbv	ND	42	42	1.6
trans-1,2-Dichloroethylene, ppbv	ND	42	42	
trans-1,3-Dichloropropene, ppbv	ND	42	42	
Trichloroethylene, ppbv	ND	42	42	<0.2



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Laboratory No. 1928901-01 - continued
Sample Description SILCO Canister E5755, Gas sample from soil after fire was extinguished & cooled, collected by Geosyntec
Extraction Comments Sample diluted from can E5755 to E3758 (419x)
Sample Date 10/15/2019 **Received Date 10/16/2019** **Analyzed Date 10/17/2019**

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
Trichlorofluoromethane (Freon 11), ppbv	ND	42	42	0.2
Trichlorofluoroethane (Freon 113), ppbv	ND	42	42	0.1
Vinyl acetate, ppbv	AS	42	42	<0.1
Vinyl chloride, ppbv	ND	42	42	<0.1

* J = Value is between method detection and reporting limits.

AS = Poor Quality Assurance Results, BH = Interference/co-elution/misidentification



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Laboratory No. 1928901-01 - continued

Sample Description SILCO Canister E5755, Gas sample from soil after fire was extinguished & cooled,
collected by Geosyntec

Sample Date 10/15/2019

Received Date 10/16/2019

Analyzed Date 10/17/2019

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS) - Tentatively Identified

-TENTATIVELY IDENTIFIED COMPOUNDS-
CONCENTRATIONS ARE APPROXIMATED

<u>Analyte, Unit</u>	<u>Result</u>
Propane, ppbv	8300
C6 Hydrocarbon, ppbv	500
Pentane, ppbv	450
Pentane, 2-methyl-, ppbv	250
Butane, 2,3-dimethyl-, ppbv	560
Butane 2,2-dimethyl, ppbv	340
Isopentane, ppbv	4100
Propane, 2,2-dimethyl, ppbv	230
Isobutane, ppbv	9800
Butane, ppbv	3600

*J = Value is between method detection and reporting limits.



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Laboratory No. 1928901-03
Sample Description Tedlar Bag VeriAir s/n 150788, Ambient air collected at foot of the hill/mountain
Extraction Comments Sample diluted on Entech 3x
Sample Date 10/15/2019 **Received Date 10/16/2019** **Analyzed Date 10/17/2019**

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
1,1,1-Trichloroethane, ppbv	ND	0.3	0.3	0.1
1,1,2,2-Tetrachloroethane, ppbv	ND	0.3	0.3	<0.1
1,1,2-Trichloroethane, ppbv	ND	0.3	0.3	<0.1
1,1-Dichloroethane, ppbv	ND	0.3	0.3	<0.1
1,1-Dichloroethylene, ppbv	ND	0.3	0.3	
1,2,4-Trichlorobenzene, ppbv	AS	0.3	0.3	<0.1
1,2,4-Trimethylbenzene, ppbv	ND	0.3	0.3	0.1
1,2-Dibromoethane, ppbv	ND	0.3	0.3	
1,2-Dichlorobenzene, ppbv	ND	0.3	0.3	
1,2-Dichloroethane, ppbv	ND	0.3	0.3	
1,2-Dichloropropane, ppbv	ND	0.3	0.3	<0.1
1,3,5-Trimethylbenzene, ppbv	ND	0.3	0.3	0.1
1,3-Butadiene, ppbv	ND	0.3	0.3	<0.1
1,3-Dichlorobenzene, ppbv	ND	0.3	0.3	
1,4-Dichlorobenzene, ppbv	ND	0.3	0.3	
1,4-Dioxane, ppbv	ND	0.3	0.3	<0.1
2-Butanone (MEK), ppbv	0.9	0.3	0.3	0.3
2-Hexanone (MBK), ppbv	ND	0.3	0.3	
2-Propenal, ppbv	1.9	0.3	0.3	
Acetone, ppbv	15 (EH)	0.3	0.3	7.7
Benzene, ppbv	0.4	0.3	0.3	0.6
Benzyl chloride, ppbv	ND	0.3	0.3	<0.1
Bromodichloromethane, ppbv	ND	0.3	0.3	<0.1
Bromoform, ppbv	ND	0.3	0.3	<0.1
Bromomethane, ppbv	ND	0.3	0.3	<0.1
Carbon disulfide, ppbv	ND	0.3	0.3	<0.1
Carbon Tetrachloride, ppbv	ND	0.3	0.3	0.1
Chlorobenzene, ppbv	ND	0.3	0.3	<0.1
Chloroethane, ppbv	ND	0.3	0.3	<0.1
Chloroform, ppbv	ND	0.3	0.3	<0.1
Chloromethane, ppbv	0.7	0.3	0.3	0.6



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Laboratory No. 1928901-03 - continued
Sample Description Tedlar Bag VeriAir s/n 150788, Ambient air collected at foot of the hill/mountain
Extraction Comments Sample diluted on Entech 3x
Sample Date 10/15/2019 **Received Date** 10/16/2019 **Analyzed Date** 10/17/2019

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
cis-1,2-Dichloroethylene, ppbv	ND	0.3	0.3	
cis-1,3-Dichloropropene, ppbv	ND	0.3	0.3	
Cyclohexane, ppbv	ND	0.3	0.3	0.1
Dibromochloromethane, ppbv	ND	0.3	0.3	<0.1
Dichlorodifluoromethane (Freon 12), ppbv	0.4	0.3	0.3	0.5
Dichlorotetrafluoroethane (Freon 114), ppbv	ND	0.3	0.3	<0.1
Ethanol, ppbv	370 (LJ)	0.3	0.3	7.3
Ethyl Acetate, ppbv	AS	0.3	0.3	<0.1
Ethylbenzene, ppbv	ND	0.3	0.3	0.2
Hexachloro-1,3-butadiene, ppbv	AS	0.3	0.3	
Isopropanol, ppbv	AS	0.3	0.3	
m+p-Xylene, ppbv	0.3	0.3	0.3	0.6
Methyl Isobutyl Ketone (MIBK), ppbv	0.3	0.3	0.3	
Methyl Methacrylate, ppbv	ND	0.3	0.3	
Methyl tert-Butyl Ether (MTBE), ppbv	ND	0.3	0.3	
Methylene Chloride, ppbv	0.3	0.3	0.3	0.2
Naphthalene, ppbv	AS	0.3	0.3	
n-Heptane, ppbv	ND	0.3	0.3	0.2
n-Hexane, ppbv	0.4	0.3	0.3	0.1
o-Xylene, ppbv	ND	0.3	0.3	0.2
p-Ethyltoluene, ppbv	ND	0.3	0.3	
Propylene, ppbv	0.4	0.3	0.3	0.5
Styrene, ppbv	ND	0.3	0.3	0.1
Tetrachloroethylene, ppbv	ND	0.3	0.3	
Tetrahydrofuran, ppbv	ND	0.3	0.3	<0.1
Toluene, ppbv	0.6	0.3	0.3	1.6
trans-1,2-Dichloroethylene, ppbv	ND	0.3	0.3	
trans-1,3-Dichloropropene, ppbv	ND	0.3	0.3	
Trichloroethylene, ppbv	ND	0.3	0.3	<0.2
Trichlorofluoromethane (Freon 11), ppbv	ND	0.3	0.3	0.2
Trichlorotrifluoroethane (Freon 113), ppbv	ND	0.3	0.3	0.1



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Laboratory No. 1928901-03 - continued
Sample Description Tedlar Bag VeriAir s/n 150788, Ambient air collected at foot of the hill/mountain
Extraction Comments Sample diluted on Entech 3x
Sample Date 10/15/2019 **Received Date 10/16/2019** **Analyzed Date 10/17/2019**

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
Vinyl acetate, ppbv	AS	0.3	0.3	<0.1
Vinyl chloride, ppbv	ND	0.3	0.3	<0.1

* J = Value is between method detection and reporting limits.

AS = Poor Quality Assurance Results, EH = Estimated; Exceeds Upper Range, LJ = Identification of Analyte is Acceptable; Reported Value is an Estimate



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Laboratory No. 1928901-03 - continued
Sample Description Tedlar Bag VeriAir s/n 150788, Ambient air collected at foot of the hill/mountain
Sample Date 10/15/2019 Received Date 10/16/2019 Analyzed Date 10/17/2019

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS) - Tentatively Identified

~~TENTATIVELY IDENTIFIED COMPOUNDS~~
CONCENTRATIONS ARE APPROXIMATED

<u>Analyte, Unit</u>	<u>Result</u>
C9 hydrocarbon, ppbv	9.2
N,N-Dimethylacetamide, ppbv	22
Phenol, ppbv	5.8
C12 Hydrocarbon, ppbv	12

* J = Value is between method detection and reporting limits.



**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Dr., Diamond Bar, CA 91765-4182**

**MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS**

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To: Rafael Reynosa
Sr. Enforcement Manager
Compliance & Enforcement

Laboratory No. 1928901-01 to -03

Requested By Thomas Lee

Rule No. NA

Sampling Location

Southern California Gas Company
12801 Tampa Avenue
Porter Ranch, CA 91326

ST No. NA

Report Created 10/17/2019

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS, AND RESULTS

**Percent hydrogen (H2), nitrogen (N2), oxygen (O2), and methane (CH4) by SCAQMD Method
10.1 (GC-TCD)**

**Total Gaseous Non-Methane Non-Ethane Organic Carbon by SCAQMD Method 25.1
(GC-TCA)**

See attached results and sample information.

Comments: Samples from the soil flame event after Saddle Ridge Fire.

Comments: Blank subtraction performed for SCAQMD M25.1

Reviewed By:

Brad Parrack
Principal A.Q. Chemist
Laboratory Services

Date Reviewed:

10/17/19

Approved By:

Aaron Katzenstein, Ph.D.
Senior Manager
Laboratory Services
(909) 396-2219

Date Approved:

10/17/19



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
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Laboratory No. 1928901-01
Sample Description SILCO Canister - E5755, Gas sample from soil after fire was extinguished & cooled, collected by Geosyntec
Analysis Comments Sample 1928901-01 analyzed on GC-TCD for helium, but no helium was detected.

Sample Date 10/15/2019 **Received Date 10/16/2019** **Analyzed Date 10/16/2019**

Percent hydrogen (H2), nitrogen (N2), oxygen (O2), and methane (CH4) by SCAQMD Method 10.1 (GC-TCD)

Analyte, Unit	Result	Dilution	MDL	MRL
H2, %	ND	1	0.2	2
O2, %	20.6	1	0.2	2
N2, %	77.2	1	0.2	2
CH4, %	0.8	1	0.2	2

Laboratory No. 1928901-01
Sample Description SILCO Canister - E5755, Gas sample from soil after fire was extinguished & cooled, collected by Geosyntec
Analysis Comments Sample not analyzed in replicate.

Sample Date 10/15/2019 **Received Date 10/16/2019** **Analyzed Date 10/16/2019**

Total Gaseous Non-Methane Non-Ethane Organic Carbon by SCAQMD Method 25.1 (GC-TCA)

Analyte, Unit	Result	Dilution	MDL	MRL
CH4, ppmvC	8620	1	0.2	0.9
CO2, ppmvC	737	1	0.1	2
Ethane, ppmvC	371	1	0.2	1
NMNEOC, ppmvC	236	1	0.2	1



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Laboratory No. 1928901-02
Sample Description Tedlar Bag - VeriAir s/n 150588, Gas sample from soil after fire was extinguished & cooled, collected by Geosyntec

Sample Date 10/15/2019 **Received Date 10/16/2019** **Analyzed Date 10/16/2019**
Percent hydrogen (H2), nitrogen (N2), oxygen (O2), and methane (CH4) by SCAQMD Method 10.1 (GC-TCD)

Analyte, Unit	Result	Dilution	MDL	MRL
H2, %	ND	1	0.2	2
O2, %	20.8	1	0.2	2
N2, %	77.8	1	0.2	2
CH4, %	0.1	1	0.2	2

Laboratory No. 1928901-02
Sample Description Tedlar Bag - VeriAir s/n 150588, Gas sample from soil after fire was extinguished & cooled, collected by Geosyntec
Analysis Description Sample not analyzed in replicate.

Sample Date 10/15/2019 **Received Date 10/16/2019** **Analyzed Date 10/16/2019**
Total Gaseous Non-Methane Non-Ethane Organic Carbon by SCAQMD Method 25.1 (GC-TCA)

Analyte, Unit	Result	Dilution	MDL	MRL
CH4, ppmvC	1230	1	0.2	0.9
CO2, ppmvC	555	1	0.1	2
Ethane, ppmvC	52	1	0.2	1
NMNEOC, ppmvC	32	1	0.2	1



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Laboratory No. 1928901-03

Sample Description Tedlar Bag - VeriAir s/n 150788, Ambient air collected at foot of the hill/mountain

Sample Date 10/15/2019

Received Date 10/16/2019

Analyzed Date 10/16/2019

Percent hydrogen (H₂), nitrogen (N₂), oxygen (O₂), and methane (CH₄) by SCAQMD Method 10.1 (GC-TCD)

Analyte, Unit	Result	Dilution	MDL	MRL
H ₂ , %	ND	1	0.2	2
O ₂ , %	20.8	1	0.2	2
N ₂ , %	77.8	1	0.2	2
CH ₄ , %	ND	1	0.2	2

Laboratory No. 1928901-03

Sample Description Tedlar Bag - VeriAir s/n 150788, Ambient air collected at foot of the hill/mountain

Analysis Description Sample not analyzed in replicate.

Sample Date 10/15/2019

Received Date 10/16/2019

Analyzed Date 10/16/2019

Total Gaseous Non-Methane Non-Ethane Organic Carbon by SCAQMD Method 25.1 (GC-TCA)

Analyte, Unit	Result	Dilution	MDL	MRL
CH ₄ , ppmvC	2	1	0.2	0.9
CO ₂ , ppmvC	511	1	0.1	2
Ethane, ppmvC	ND	1	0.2	1
NMNEOC, ppmvC	2	1	0.2	1



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Laboratory No. 1928901-01 to -03

Percent hydrogen (H₂), nitrogen (N₂), oxygen (O₂), and methane (CH₄) by SCAQMD Method 10.1 (GC-TCD)

QUALITY CONTROL SUMMARY

CCV1 (CC122586)

Analyte, Unit

H₂, %

O₂, %

N₂, %

CH₄, %

Measured	Theoretical	Absolute Difference	QC Limit ±0.5%
1.00	0.944	0.06	PASS
1.12	1.03	0.09	PASS
1.34	0.959	0.38	PASS
0.99	1.01	0.02	PASS

CCV2 (CC73109)

Analyte, Unit

H₂, %

O₂, %

N₂, %

CH₄, %

Measured	Theoretical	Absolute Difference	QC Limit ±0.5%
NA	NA	NA	NA
24.96	24.63	0.33	PASS
5.13	4.93	0.20	PASS
NA	NA	NA	NA

CCV3 (FF130)

Analyte, Unit

H₂, %

O₂, %

N₂, %

CH₄, %

Measured	Theoretical	Absolute Difference	QC Limit ±0.5%
NA	NA	NA	NA
1.10	0.997	0.10	PASS
94.38	93.9	0.48	PASS
NA	NA	NA	NA

CCV4 (CC122586)

Analyte, Unit

H₂, %

O₂, %

N₂, %

CH₄, %

Measured	Theoretical	Absolute Difference	QC Limit ±0.5%
1.01	0.944	0.07	PASS
1.06	1.03	0.03	PASS
1.09	0.959	0.13	PASS
0.98	1.01	0.03	PASS

CCV5 (CC73109)

Analyte, Unit

H₂, %

O₂, %

N₂, %

CH₄, %

Measured	Theoretical	Absolute Difference	QC Limit ±0.5%
NA	NA	NA	NA
24.92	24.63	0.29	PASS
5.05	4.93	0.12	PASS
NA	NA	NA	NA



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Laboratory No. 1928901-01 to -03

Percent hydrogen (H₂), nitrogen (N₂), oxygen (O₂), and methane (CH₄) by SCAQMD Method 10.1 (GC-TCD)

QUALITY CONTROL SUMMARY

CCV6 (FF130)

Analyte, Unit

H₂, %

O₂, %

N₂, %

CH₄, %

Measured	Theoretical	Absolute Difference	QC Limit ±0.5%
NA	NA	NA	NA
1.20	0.997	0.20	PASS
94.32	93.9	0.42	PASS
NA	NA	NA	NA



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Dr., Diamond Bar, CA 91765-4182

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

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Laboratory No. **1928901-01 to -03**

Total Gaseous Non-Methane Non-Ethane Organic Carbon by SCAQMD Method 25.1 (GC-TCA)

QUALITY CONTROL SUMMARY

CCV1 (CC106783)

Analyte, Unit

CO, ppmvC

CH4, ppmvC

CO2, ppmvC

Ethane, ppmvC

NMNEOC, ppmvC

CCV2 (CC135067)

Analyte, Unit

CO, ppmvC

CH4, ppmvC

CO2, ppmvC

Ethane, ppmvC

NMNEOC, ppmvC

CCV3 (CC106783)

Analyte, Unit

CO, ppmvC

CH4, ppmvC

CO2, ppmvC

Ethane, ppmvC

NMNEOC, ppmvC

CCV4 (CC135067)

Analyte, Unit

CO, ppmvC

CH4, ppmvC

CO2, ppmvC

Ethane, ppmvC

NMNEOC, ppmvC

Measured	Theoretical	Percent Error	Absolute Difference	QC Limit ±5% or ±1
1.48	1.92	23.08	0.44	PASS
1.89	2.02	6.62	0.13	PASS
1.69	1.57	7.71	0.12	PASS
1.96	2.03	3.45	0.07	PASS
1.79	2.03	11.74	0.24	PASS

Measured	Theoretical	Percent Error	Absolute Difference	QC Limit ±5% or ±1
9958	10100	1.41	142.06	PASS
9811	9950	1.39	138.69	PASS
9954	10100	1.44	145.88	PASS
9793	9940	1.47	146.58	PASS
9920	10000	0.80	80.18	PASS

Measured	Theoretical	Percent Error	Absolute Difference	QC Limit ±5% or ±1
1.57	1.92	18.40	0.35	PASS
1.89	2.02	6.62	0.13	PASS
1.51	1.57	3.76	0.06	PASS
2.01	2.03	0.99	0.02	PASS
1.81	2.03	10.75	0.22	PASS

Measured	Theoretical	Percent Error	Absolute Difference	QC Limit ±5% or ±1
9944	10100	1.54	155.60	PASS
9807	9950	1.44	143.02	PASS
9958	10100	1.41	142.25	PASS
9795	9940	1.46	145.06	PASS
9920	10000	0.80	80.26	PASS

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
SAMPLE ANALYSIS REQUEST**

DISTRICT INFORMATION
 INVOICE SOURCE
LABORATORY NO. 1928901

TO: SCAQMD LAB: X OTHER:

SOURCE NAME: So Cal Gas (Aliso Canyon Soil Flame) I.D. No. _____

Source Address: 12801 Tampa Ave City: Northridge

Mailing Address: 12801 Tampa Ave City: Northridge Zip: 91326

Contact Person: Uliana Micovic Title: Prin. Env. Specialist Tel: 818-701-3499

Analysis Requested by: Thomas Lee Date: 10/16/2019

Approved by: Rafael Reynosa Office: AQMD Emergency Response Compliance Budget # _____

REASON REQUESTED: Suspected Violation Rule(s) _____ Court/Hearing Board Permit Pending Hazardous/Toxic Spill Other

Sample Collected by: Thomas Lee & Ryan Gray (Geosyntec) Date: 10/15/2019 Time: 1238 - 1611 hours

Specify the description and location where the sample was collected:

[1928901-01] – E5755: Gas sample from soil after fire was extinguished & cooled, collected by Ryan Gray with Geosyntec @ 1608 hours

[1928901-02] – VeriAir s/n 150588: Gas sample from soil after fire was extinguished & cooled, collected by Ryan Gray with Geosyntec @ 1611 hours

[1928901-03] – VeriAir s/n 150788: Ambient Air collected at the foot of the hill/mountain side by Thomas Lee, South Coast AQMD @ 1238 hours

Analysis Requested: TO-15 - TICs

Relinquished by	Received by	Firm/Agency	Date	Time
Larry Israel	Heidee DeLa Cruz	South Coast AQMD	10/15/2019	
Heidee DeLa Cruz	Thomas Lee	South Coast AQMD	10/15/2019	1000 hrs
Thomas Lee	Ryan Gray	Geosyntec	10/15/2019	1545 hrs
Ryan Gray	Thomas Lee	South Coast AQMD	10/15/2019	1701 hrs
Thomas Lee	Stephen Dutz	South Coast AQMD	10/16/2019	0850 hrs

Remarks:
Samples from the soil flame event after Saddle Ridge Fire.