

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar CA 91765-1482

MONITORING & ANALYSIS
REPORT OF LABORATORY ANALYSIS

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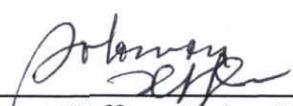
TO	Jason Low Atmospheric Measurements Manager Science and Technology Advancement	LABORATORY NO	<u>1623717</u>
SAMPLE DESCRIBED AS	Grab sample Canister 54696	DATE RECEIVED	<u>08/24/2016</u>
SAMPLING LOCATION	Firmin Drill Site 323 Firmin Street Los Angeles CA 90026	FACILITY ID NO	<u>NA</u>
		REQUESTED BY	<u>Sumner Wilson</u>
		ST NO / PROJECT	<u>NA</u>

Carbon monoxide (CO), methane (CH₄), carbon dioxide (CO₂), ethane (C₂H₆), and non-methane non-ethane organic carbon (NM/NEOC) in ppmvC by SCAQMD Method 25.1 (TCA FID).

Type	Canister
Number	<u>54696</u>
Pressure (Torr)	760
CO, ppm	5
CH ₄ , ppm	3
CO ₂ , ppm	425
Ethane, ppmvC	< 1
NM/NEOC, ppmvC	< 1

Date Approved: 9/6/16

Approved By: _____


Solomon Teffera, Acting Senior Manager
Laboratory Services
909-396-2199

448/131/16

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MONITORING & ANALYSIS
QUALITY CONTROL SUMMARY

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SAMPLE DESCRIBED AS	LABORATORY NO	<u>1623717</u>
Grab sample Canister 54696	REQUESTED BY	<u>Sumner Wilson</u>

Carbon monoxide (CO), methane (CH₄), carbon dioxide (CO₂), ethane (C₂H₆), and non-methane non-ethane organic carbon (NM/NEOC) in ppmvC by SCAQMD Method 25.1 (TCA FID).

QUALITY CONTROL -- End of run control recovery

		Theoretical	Measured	Percent Difference	QC Limit ±5% or ± 1
CC106783	MDL				
CO, ppmvC	0.4	1.92	2.29	19.19	PASS
CH ₄ , ppmvC	0.3	2.02	1.86	-8.20	PASS
CO ₂ , ppmvC	0.4	1.57	9.78	523.01	FAIL
C ₂ H ₄ , ppmvC	0.4	NA	NA	NA	NA
C ₂ H ₆ , ppmvC	0.4	2.03	1.78	-12.42	PASS
NM/NEOC, ppmvC	0.5	2.03	1.77	-12.54	PASS

		Theoretical	Measured	Percent Difference	QC Limit ±5% or ± 1
CC12628	MDL				
CO, ppmvC	0.4	1036	1024	-1.11	PASS
CH ₄ , ppmvC	0.3	1068	1021	-4.41	PASS
CO ₂ , ppmvC	0.4	1022	1018	-0.39	PASS
C ₂ H ₄ , ppmvC	0.4	NA	NA	NA	NA
C ₂ H ₆ , ppmvC	0.4	1044	1010	-3.30	PASS
NM/NEOC, ppmvC	0.5	1024	990	-3.24	PASS

DATE ANALYZED	08/24/2016
REFERENCE NO:	16QM2AD
	QM2-101-120

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

DISTRICT
 INVOICE
 LAP AU
LABORATORY

1623717 -02


TO: SCAQMD LAB: OTHER:

SOURCE NAME: Firmin Drill site I.D. No. _____

Source Address: 323 Firmin Street City: Loa Angeles

Mailing Address: _____ City: _____ Zip: 90026

Contact Person: _____ Title: _____ Tel: _____

Analysis Requested by: Sumner Wilson Date: 08/24/2016

Approved by: Jason Low Office: _____ Budget #: 44716

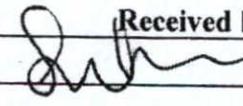
REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill

Suspected Violation Rule(s) _____ Other

Sample Collected by: Robert Wimmer Date: 08/23/2016 Time: 10:58-14:15

REQUESTED ANALYSIS: VOC - PAMS - TCA (CH₄) ^{gm} 8-24-16

City/Location	Can#	Start day / duration	Start vac	End vac
101 323 Firmin St (Porch of residence) 34.063904, -118.254530	54623	08-23-16 10:58 2 min	-30"	0
02 (Near water return for drill) 34.064048, -118.254369	54696	08-23-16 14:15 2 min	-30"	FW -2-3
03 414 Firmin St. (background site) 34.064868, -118.253879	E4281	08-23-16 11:25 3 min	-30"	-2

Relinquished by	Received by	Firm/Agency	Date	Time
B Vongphachanh		SCAQMD Lab	8/24/2016	9:03

Remarks: Samples were taken during drilling operations in addition to one taken at a background site in the absence of drilling activity