

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

MONITORING & ANALYSIS
REPORT OF LABORATORY ANALYSIS

Page 1 of 2

TO Jason Low, Atmospheric Measurement Manager
Monitoring & Analysis

LABORATORY NO. 1616017

FACILITY ID NA

SAMPLE(S) DESCRIBED AS
Two 0.7 L Tedlar Bags

DATE RECEIVED 6/8/16

PROJECT/ ST NO/ RULE Other

SAMPLING LOCATION
Orphan Well Project
323 Firmin St.
Los Angeles CA, 90026

REQUESTED BY Jason Low

DATE ANALYZED 6/8/16

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS
Total Reduced Sulfur (TRS) by SCAQMD Method 307-91

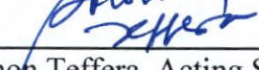
	1616017-01	1616017-02
	10146-7DA-215	9981-7DA-174
Hydrogen sulfide ¹	36 ppm	22 ppm
Methyl mercaptan ²	0.5 ppm ³	0.2 ppm ³
Unknown ²	2.1 ppm ³	1.4 ppm ³
Total Reduced Sulfur	39 ppm	24 ppm

¹Analyzed on Jerome 631-X Hydrogen Sulfide Analyzer; H2S concentrations too high for SCD

²Calibrated using methyl mercaptan

³Sample diluted 1:100 into external tedlar bag

Date Approved: 6/10/16

Approved By: 
Solomon Teffera, Acting Senior Manager
Laboratory Services
(909) 396-2199

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Total Reduced Sulfur (TRS) by SCAQMD Method 307-91
Quality Control Tests and Results Matrix

Control (ppb)			Lab Air Blank (ppb)		
	Prepared	Measured	% Recovery	Measured	
Methyl mercaptan	1.01	1.08	107.5	Hydrogen sulfide	8.3 ^{1 2}
Ethyl mercaptan	1.04	1.16	111.5	Carbonyl sulfide/SO2	2.8 ¹
Isopropyl mercaptan	1.04	1.21	116.9	Carbonyl sulfide	3.6 ¹
1-Propanethiol	1.03	1.03	100.0	Methyl mercaptan	< 1 ppb
				Ethyl mercaptan	< 1 ppb
				Isopropyl mercaptan	< 1 ppb

Calibration Drift (ppb)			
	Prepared	Measured	% Recovery
Methyl mercaptan	30.15	27.57	91.4
Ethyl mercaptan	31.20	28.69	92.0
Isopropyl mercaptan	31.05	28.27	91.0
1-Propanethiol	30.90	27.11	87.7

N2 Bag Blank (ppb)	
	Measured
Methyl mercaptan	< 10 ppb
Ethyl mercaptan	< 10 ppb
Unknown	2.3 ¹
1-Propanethiol	< 10 ppb

SRM 2731 (ppm, analyzed on Jerome)

	Prepared	Measured	% Recovery
Hydrogen sulfide	20.4	17	83.3

¹Calibrated using Methyl Mercaptan

² Samples contained high levels of H2S which contaminated the system and caused subsequent injections to contain H2S from the carry over

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

DISTRICT INFORMATION

INVO

LAP

LABOR

WO #: 1616017



TO: SCAQMD LAB: OTHER:

SOURCE NAME: Orphan Well Project : DOGR I.D. No. _____

Source Address: 323 Firmin St., City: Los Angeles

Mailing Address: _____ City: _____ Zip: _____

Contact Person: Jason Low Title: Atmos. Meas. Manager Tel: 909-396-2269

Analysis Requested by: Jason Low Date: 06-08-16

Approved by: Jason Low Office: M&A Budget #: _____

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

Suspected Violation Rule(s) _____ Other

Sample Collected by: Jason Low Date: 06-08-16 Time: 9:50

SAMPLE DESCRIPTION:

10196-7DA-215 BAG #1 0.7L Tedlar Bag

9981-7DA-174 TRAG #2

REQUESTED ANALYSIS: H₂S + Speciated Sulfur (H₂S by Jerome is ok if SCD not available)

Relinquished by	Received by	Firm/Agency	Date	Time
<u>[Signature]</u>	<u>[Signature]</u>	SCAQMD LAB	6/8/16	12:19

Remarks: