



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

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

(Page 1 of 4)

To: Victor Yip
Sr. Enforcement Manager
Compliance & Enforcement

Laboratory No. 1803910-01
Requested By Kraig Morris

Sampling Location

HB Odor Event 2/8/18
Ellis Ave & Quarterhorse Lane
Huntington Beach, CA

Rule No. R402
ST No. NA
Report Created 02/21/2018

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS, AND RESULTS

Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID

See attached results and sample information.

Reviewed By:

Stephen Dutz
Principal A.Q. Chemist
Laboratory Services

Date Reviewed:

02/21/18

Approved By:

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

Date Approved:

2/21/18



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Laboratory No. 1803910-01
Sample Description SUMMA Canister E4265, Sour gas 2 out of 5. 5-6 mph wind out of west.
Sample Comments High concentration analytes should be viewed as estimates.
Sample Date 02/08/2018 **Received Date 02/08/2018** **Analyzed Date 02/09/2018**

Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
Total NMOC, ppbC	9000	0.1	0.3	100-700
Total Calibrated, ppbC	8900	0.1	0.3	
Ethane (FID), ppbv	340	0.05	0.2	
Ethylene (FID), ppbv	2.0	0.05	0.2	0.7-4.1
Acetylene (FID), ppbv	2.1	0.05	0.2	
Propane (FID), ppbv	900	0.03	0.1	0.4-5.0
Propylene (FID), ppbv	0.4	0.03	0.1	0.2-0.7
Isobutane (FID), ppbv	190	0.02	0.08	0.2-0.9
n-Butane (FID), ppbv	550	0.02	0.08	0.3-1.7
1-Butene (FID), ppbv	1.6	0.02	0.08	0.1-0.3
trans-2-Butene (FID), ppbv	ND	0.02	0.08	
cis-2-Butene (FID), ppbv	<i>J (0.02)</i>	0.02	0.08	
Isopentane (FID), ppbv	150	0.02	0.06	
1-Pentene (FID), ppbv	0.07	0.02	0.06	
n-Pentane (FID), ppbv	170	0.02	0.06	0.1-0.6
Isoprene (FID), ppbv	0.4	0.02	0.06	
trans-2-Pentene (FID), ppbv	<i>J (0.03)</i>	0.02	0.06	
cis-2-Pentene (FID), ppbv	ND	0.02	0.06	
2,2-Dimethylbutane (FID), ppbv	1.3	0.02	0.05	
Cyclopentane (FID), ppbv	5.1	0.02	0.06	
2,3-Dimethylbutane (FID), ppbv	4.8	0.02	0.05	
2-Methylpentane (FID), ppbv	28	0.02	0.05	
3-Methylpentane (FID), ppbv	20	0.02	0.05	
1-Hexene (FID), ppbv	ND	0.02	0.05	<0.1-0.1
n-Hexane (FID), ppbv	43	0.02	0.05	0.1-0.2
Methylcyclopentane (FID), ppbv	6.7	0.02	0.05	
2,4-Dimethylpentane (FID), ppbv	0.9	0.01	0.04	
Benzene (FID), ppbv	1.8	0.02	0.05	0.1-0.5
Cyclohexane (FID), ppbv	3.4	0.02	0.05	
2-Methylhexane (FID), ppbv	1.9	0.01	0.04	
2,3-Dimethylpentane (FID), ppbv	4.6	0.01	0.04	



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Sample Date 02/08/2018 **Received Date 02/08/2018** **Analyzed Date 02/09/2018**

Volatile Organic Compounds (VOCs) in Ambient Air by GC/FID

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
3-Methylhexane (FID), ppbv	5.6	0.01	0.04	
2,2,4-Trimethylpentane (FID), ppbv	1.2	0.01	0.04	
n-Heptane (FID), ppbv	11	0.01	0.04	0.1-0.2
Methylcyclohexane (FID), ppbv	2.9	0.01	0.04	
2,3,4-Trimethylpentane (FID), ppbv	0.1	0.01	0.04	
Toluene (FID), ppbv	2.2	0.01	0.04	0.1-0.6
2-Methylheptane (FID), ppbv	1.5	0.01	0.04	
3-Methylheptane (FID), ppbv	1.1	0.01	0.04	
n-Octane (FID), ppbv	2.5	0.01	0.04	<0.1-0.3
Ethylbenzene (FID), ppbv	0.3	0.01	0.04	0.1-0.2
m+p-Xylene (FID), ppbv	1.1	0.01	0.04	0.1-0.2
Styrene (FID), ppbv	0.1	0.01	0.04	<0.1-0.2
o-Xylene (FID), ppbv	0.3	0.01	0.04	0.1-0.2
n-Nonane (FID), ppbv	0.6	0.01	0.03	<0.1-0.1
Isopropylbenzene (FID), ppbv	0.08	0.01	0.03	
n-Propylbenzene (FID), ppbv	0.04	0.01	0.03	
m-Ethyltoluene (FID), ppbv	0.1	0.01	0.03	
p-Ethyltoluene (FID), ppbv	0.06	0.01	0.03	
1,3,5-Trimethylbenzene (FID), ppbv	0.06	0.01	0.03	
o-Ethyltoluene (FID), ppbv	0.07	0.01	0.03	
1,2,4-Trimethylbenzene (FID), ppbv	0.1	0.01	0.03	
n-Decane (FID), ppbv	0.2	0.01	0.03	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	0.05	0.01	0.03	
m-Diethylbenzene (FID), ppbv	J (0.02)	0.01	0.03	
p-Diethylbenzene (FID), ppbv	J (0.02)	0.01	0.03	
n-Undecane (FID), ppbv	0.06	0.009	0.03	<0.1
n-Dodecane (FID), ppbv	J (0.01)	0.008	0.02	<0.1

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

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

- DISTRICT INFORMATION
 INVOICE SOURCE
 LAP AUDIT

LABORATORY NO 1803910

TO: SCAQMD LAB: OTHER:
 SOURCE NAME: HB odor Event 2/8/18 I.D. No. _____
 Source Address: Ellis Ave & Quarterhorse Ln City: Huntington Beach
 Mailing Address: _____ City: _____ Zip: _____
 Contact Person: Kraig Morris Title: Inspector Tel: (909) 396-3279

Analysis Requested by: Kraig Morris Date: 2/8/18
 Approved by: FREDRICK GONZALEZ Office: C&E Budget #: 60-375
 REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill
 Suspected Violation Rule(s) 402 Other

Sample Collected by: Kraig Morris Date: 2/8/18 Time: 1205

SAMPLE DESCRIPTION:

Sour gas odor was detected near the intersection of Ellis Ave & Quarterhorse Ln. Sour gas was a 2 out of 5.
 T = 71°F, sunny, 5-6 mph wind out of West.

REQUESTED ANALYSIS:

✓ VOC ANALYSIS
 Sample CAN ID# E4265

Relinquished by	Received by	Firm/Agency	Date	Time
<u>Kraig Morris</u>	<u>H Phillipson</u>	<u>SCAQMD Lab</u>	<u>2/8/18</u>	<u>1145</u>

Remarks: