



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. 1736009-01
Requested By Kraig Morris

Sampling Location

Huntington Beach Fire Station #5
530 Lake St.
Huntington Beach, CA 92648

Rule No. R402
ST No. NA
Report Created 01/18/2018

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:

01/18/18

Approved By:

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

Date Approved:

1/18/18



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Laboratory No. 1736009-01

Sample Description SUMMA Canister 54619, Multiple complaints near fire station #5 regarding a gas type odor. Odor is consistent with gas type odor that passes through city. Sample was collected in front of Huntington Beach fire station #5. Odor intensity: 4 out of 5.

Sample Comments High concentration analytes should be viewed as estimates.

Sample Date 12/25/2017

Received Date 12/26/2017

Analyzed Date 01/05/2018

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 NMOG, ppbC	11000	0.1	0.3	100-700
Total Calibrated, ppbC	11000	0.1	0.3	
Ethane (FID), ppbv	360	0.05	0.2	
Ethylene (FID), ppbv	1.7	0.05	0.2	0.7-4.1
Acetylene (FID), ppbv	1.7	0.05	0.2	
Propane (FID), ppbv	870	0.03	0.1	0.4-5.0
Propylene (FID), ppbv	0.3	0.03	0.1	0.2-0.7
Isobutane (FID), ppbv	210	0.02	0.08	0.2-0.9
n-Butane (FID), ppbv	710	0.02	0.08	0.3-1.7
1-Butene (FID), ppbv	ND	0.02	0.08	0.1-0.3
trans-2-Butene (FID), ppbv	<i>J (0.02)</i>	0.02	0.08	
cis-2-Butene (FID), ppbv	<i>J (0.02)</i>	0.02	0.08	
Isopentane (FID), ppbv	230	0.02	0.06	
1-Pentene (FID), ppbv	<i>J (0.04)</i>	0.02	0.06	
n-Pentane (FID), ppbv	280	0.02	0.06	0.1-0.6
Isoprene (FID), ppbv	ND	0.02	0.06	
trans-2-Pentene (FID), ppbv	<i>J (0.06)</i>	0.02	0.06	
cis-2-Pentene (FID), ppbv	ND	0.02	0.06	
2,2-Dimethylbutane (FID), ppbv	1.8	0.02	0.05	
Cyclopentane (FID), ppbv	8.6	0.02	0.06	
2,3-Dimethylbutane (FID), ppbv	8.4	0.02	0.05	
2-Methylpentane (FID), ppbv	51	0.02	0.05	
3-Methylpentane (FID), ppbv	37	0.02	0.05	
1-Hexene (FID), ppbv	ND	0.02	0.05	<0.1-0.1
n-Hexane (FID), ppbv	82	0.02	0.05	0.1-0.2
Methylcyclopentane (FID), ppbv	12	0.02	0.05	
2,4-Dimethylpentane (FID), ppbv	1.5	0.01	0.04	
Benzene (FID), ppbv	3.2	0.02	0.05	0.1-0.5
Cyclohexane (FID), ppbv	6.0	0.02	0.05	



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Laboratory No. 1736009-01 - continued
Sample Description SUMMA Canister 54619, Multiple complaints near fire station #5 regarding a gas type odor. Odor is consistent with gas type odor that passes through city. Sample was collected in front of Huntington Beach fire station #5. Odor intensity: 4 out of 5.
Sample Comments High concentration analytes should be viewed as estimates.
Sample Date 12/25/2017 **Received Date 12/26/2017** **Analyzed Date 01/05/2018**

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>
2-Methylhexane (FID), ppbv	3.5	0.01	0.04	
2,3-Dimethylpentane (FID), ppbv	8.8	0.01	0.04	
3-Methylhexane (FID), ppbv	11	0.01	0.04	
2,2,4-Trimethylpentane (FID), ppbv	2.1	0.01	0.04	
n-Heptane (FID), ppbv	21	0.01	0.04	0.1-0.2
Methylcyclohexane (FID), ppbv	5.0	0.01	0.04	
2,3,4-Trimethylpentane (FID), ppbv	0.2	0.01	0.04	
Toluene (FID), ppbv	3.2	0.01	0.04	0.1-0.6
2-Methylheptane (FID), ppbv	2.9	0.01	0.04	
3-Methylheptane (FID), ppbv	2.0	0.01	0.04	
n-Octane (FID), ppbv	5.3	0.01	0.04	<0.1-0.3
Ethylbenzene (FID), ppbv	0.5	0.01	0.04	0.1-0.2
m+p-Xylene (FID), ppbv	1.7	0.01	0.04	0.1-0.2
Styrene (FID), ppbv	<i>J (0.04)</i>	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	1.3	0.01	0.03	<0.1-0.1
Isopropylbenzene (FID), ppbv	0.09	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	<i>J (0.03)</i>	0.01	0.03	
1,3,5-Trimethylbenzene (FID), ppbv	0.1	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	0.06	0.01	0.03	
m-Diethylbenzene (FID), ppbv	<i>J (0.01)</i>	0.01	0.03	
p-Diethylbenzene (FID), ppbv	<i>J (0.02)</i>	0.01	0.03	
n-Undecane (FID), ppbv	0.04	0.009	0.03	<0.1
n-Dodecane (FID), ppbv	<i>J (0.008)</i>	0.008	0.02	<0.1

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

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

DIS
 INV
 LAF

1736009



LABOR

TO: SCAQMD LAB: OTHER: _____
 SOURCE NAME: Huntington Beach Fire Station #5 I.D. No. _____
 Source Address: 530 Lake St. City: Huntington Beach
 Mailing Address: 2000 Main St. City: Huntington Beach Zip: 92648
 Contact Person: Andrew Merritt Title: Firefighter Tel: (714) 536-5474

Analysis Requested by: Kraig Morris Date: 12/26/17
 Approved by: [Signature] Office: _____ Budget #: _____
 REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill
 Suspected Violation Rule(s) 402 Other

Sample Collected by: Andrew Merritt Date: 12/25/17 Time: 1950

SAMPLE DESCRIPTION:

A number of complaints were phoned in near Fire Station #5 regarding a gas type odor. Odor is consistent with gas type odor that passes through city. Sample was collected in front of Huntington Beach Fire Station #5 and smelled like rotten egg. Odor had an intensity of 4 out of 5 on a scale of 0 to 5.

REQUESTED ANALYSIS: VOC ANALYSIS Sample ID # 54619

Relinquished by	Received by	Firm/Agency	Date	Time
<u>Cameron Gair</u>	<u>Kraig Morris</u>	<u>SCAQMD</u>	<u>12/26/17</u>	<u>0940</u>
<u>Kraig Morris</u>	<u>K do Leon</u>	<u>SCAQMD</u>	<u>12/26/17</u>	<u>1340</u>

Remarks: