



**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: Victor Yip  
Sr. Enforcement Manager  
Compliance & Enforcement

Laboratory No. 1826801-01  
Requested By Kraig Morris  
Rule No. R402  
ST No. NA  
Report Created 10/12/2018

**Sampling Location**


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

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**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: 10/12/18

Approved By:   
\_\_\_\_\_  
Aaron Katzenstein, Ph.D.  
Senior Manager  
Laboratory Services  
(909) 396-2219

Date Approved: 10/16/2018



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Laboratory No.           **1826801-01**  
 Sample Description       **SUMMA Canister E3371**  
 Sample Comments        **TCA down**

**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	14000	8.0	24	100-700
Total Calibrated, ppbC	14000	8.0	24	
Ethane (FID), ppbv	450	4.0	12	
Ethylene (FID), ppbv	2.1	0.2	0.6	0.7-4.1
Acetylene (FID), ppbv	1.6	0.2	0.6	
Propane (FID), ppbv	1100	2.7	8.0	0.4-5.0
Propylene (FID), ppbv	0.9	0.1	0.4	0.2-0.7
Isobutane (FID), ppbv	250	2.0	6.0	0.2-0.9
n-Butane (FID), ppbv	850	2.0	6.0	0.3-1.7
1-Butene (FID), ppbv	2.0	0.1	0.3	0.1-0.3
trans-2-Butene (FID), ppbv	ND	0.1	0.3	
cis-2-Butene (FID), ppbv	ND	0.1	0.3	
Isopentane (FID), ppbv	280	1.6	4.8	
1-Pentene (FID), ppbv	ND	0.08	0.2	
n-Pentane (FID), ppbv	330	1.6	4.8	0.1-0.6
Isoprene (FID), ppbv	ND	0.08	0.2	
trans-2-Pentene (FID), ppbv	ND	0.08	0.2	
cis-2-Pentene (FID), ppbv	ND	0.08	0.2	
2,2-Dimethylbutane (FID), ppbv	2.5	0.07	0.2	
Cyclopentane (FID), ppbv	13	0.08	0.2	
2,3-Dimethylbutane (FID), ppbv	13	0.07	0.2	
2-Methylpentane (FID), ppbv	64	1.3	4.0	
3-Methylpentane (FID), ppbv	50	1.3	4.0	
1-Hexene (FID), ppbv	ND	0.07	0.2	<0.1-0.1
n-Hexane (FID), ppbv	96	1.3	4.0	0.1-0.2
Methylcyclopentane (FID), ppbv	17	0.07	0.2	
2,4-Dimethylpentane (FID), ppbv	2.4	0.06	0.2	
Benzene (FID), ppbv	4.7	0.07	0.2	0.1-0.5
Cyclohexane (FID), ppbv	9.0	0.07	0.2	
2-Methylhexane (FID), ppbv	13	0.06	0.2	
2,3-Dimethylpentane (FID), ppbv	5.7	0.06	0.2	
3-Methylhexane (FID), ppbv	16	0.06	0.2	
2,2,4-Trimethylpentane (FID), ppbv	3.6	0.05	0.2	



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**Laboratory No.** 1826801-01 - continued  
**Sample Description** SUMMA Canister E3371  
**Sample Comments** TCA down

**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>
n-Heptane (FID), ppbv	27	1.1	3.4	0.1-0.2
Methylcyclohexane (FID), ppbv	7.4	0.06	0.2	
2,3,4-Trimethylpentane (FID), ppbv	0.4	0.05	0.2	
Toluene (FID), ppbv	5.3	0.06	0.2	0.1-0.6
2-Methylheptane (FID), ppbv	4.4	0.05	0.2	
3-Methylheptane (FID), ppbv	3.2	0.05	0.2	
n-Octane (FID), ppbv	7.2	0.05	0.2	<0.1-0.3
Ethylbenzene (FID), ppbv	0.6	0.05	0.2	0.1-0.2
m+p-Xylene (FID), ppbv	2.6	0.05	0.2	0.1-0.2
Styrene (FID), ppbv	ND	0.05	0.2	<0.1-0.2
o-Xylene (FID), ppbv	0.6	0.05	0.2	0.1-0.2
n-Nonane (FID), ppbv	1.9	0.04	0.1	<0.1-0.1
Isopropylbenzene (FID), ppbv	0.1	0.04	0.1	
n-Propylbenzene (FID), ppbv	0.07	0.04	0.1	
m-Ethyltoluene (FID), ppbv	0.2	0.04	0.1	
p-Ethyltoluene (FID), ppbv	0.09	0.04	0.1	
1,3,5-Trimethylbenzene (FID), ppbv	0.1	0.04	0.1	
o-Ethyltoluene (FID), ppbv	0.1	0.04	0.1	
1,2,4-Trimethylbenzene (FID), ppbv	0.04	0.04	0.1	
n-Decane (FID), ppbv	0.3	0.04	0.1	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	0.06	0.04	0.1	
m-Diethylbenzene (FID), ppbv	ND	0.04	0.1	
p-Diethylbenzene (FID), ppbv	ND	0.04	0.1	
n-Undecane (FID), ppbv	0.04	0.04	0.1	<0.1
n-Dodecane (FID), ppbv	ND	0.03	0.1	<0.1

Qualifiers

ND = Non-detect

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 1820801

TO: SCAQMD LAB:  OTHER:   
 SOURCE NAME: Huntington Beach FIRE F.S.#5 I.D. No. \_\_\_\_\_  
 Source Address: 530 LAKE ST City: Huntington Beach  
 Mailing Address: Same City: \_\_\_\_\_ Zip: 92648  
 Contact Person: Rev. Rysenyt Title: CAPTAIN Tel: 760-468-1241

Analysis Requested by: Kraig Morris Date: 9/25/18  
 Approved by: FRED GONZALEZ Office: C+E Budget #: 60375  
 REASON REQUESTED: Court/Hearing Board  Permit Pending  Hazardous/Toxic Spill   
 Suspected Violation Rule(s) 902 Other

Sample Collected by: Rysenyt Date: 9-22-18 Time: 1455

**SAMPLE DESCRIPTION:**

Front Apron, Onshore wheels @ 10 MPH, W  
 Strong petroleum odor, rotten egg, 3 out of 5  
 Sample was collected in parking lot at  
 Huntington Beach Fire Station #5 located at  
 530 Lake St., HB.

(-01) VOC Analysis  
 CANIDA#E3371  
 (-02) Sulfur Analysis  
 Tedlab/Ag.#N83229

**REQUESTED ANALYSIS:**

Relinquished by	Received by	Firm/Agency	Date	Time
<u>Rysenyt</u>	<u>Kraig Morris</u>	<u>SCAQMD</u>	<u>9/25/18</u>	<u>0905</u>
<u>Kraig Morris</u>	<u>Iliana Garcia</u>	<u>SCAQMD Lab</u>	<u>09/25/18</u>	<u>10:40</u>

Remarks: