



**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.** 1827101-01  
**Requested By** Kraig Morris  
**Rule No.** R402  
**ST No.** NA  
**Report Created** 11/07/2018

**Sampling Location**  
HB Firestation #6  
18591 Edwards  
Huntington Beach, CA

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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:**

11/07/2018

**Approved By:**

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

**Date Approved:**

11/9/2018



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Laboratory No.            1827101-01  
 Sample Description        SUMMA Canister 54676

**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	550	4.0	12	
Ethylene (FID), ppbv	11	4.0	12	0.7-4.1
Acetylene (FID), ppbv	ND	4.0	12	
Propane (FID), ppbv	1400	2.7	8.0	0.4-5.0
Propylene (FID), ppbv	5.7	2.7	8.0	0.2-0.7
Isobutane (FID), ppbv	270	2.0	6.0	0.2-0.9
n-Butane (FID), ppbv	830	2.0	6.0	0.3-1.7
1-Butene (FID), ppbv	ND	2.0	6.0	0.1-0.3
trans-2-Butene (FID), ppbv	ND	2.0	6.0	
cis-2-Butene (FID), ppbv	ND	2.0	6.0	
Isopentane (FID), ppbv	240	1.6	4.8	
1-Pentene (FID), ppbv	ND	1.6	4.8	
n-Pentane (FID), ppbv	270	1.6	4.8	0.1-0.6
Isoprene (FID), ppbv	ND	1.6	4.8	
trans-2-Pentene (FID), ppbv	ND	1.6	4.8	
cis-2-Pentene (FID), ppbv	ND	1.6	4.8	
2,2-Dimethylbutane (FID), ppbv	2.0	1.3	4.0	
Cyclopentane (FID), ppbv	8.7	1.6	4.8	
2,3-Dimethylbutane (FID), ppbv	8.8	1.3	4.0	
2-Methylpentane (FID), ppbv	48	1.3	4.0	
3-Methylpentane (FID), ppbv	37	1.3	4.0	
1-Hexene (FID), ppbv	ND	1.3	4.0	<0.1-0.1
n-Hexane (FID), ppbv	73	1.3	4.0	0.1-0.2
Methylcyclopentane (FID), ppbv	11	1.3	4.0	
2,4-Dimethylpentane (FID), ppbv	1.5	1.1	3.4	
Benzene (FID), ppbv	3.2	1.3	4.0	0.1-0.5
Cyclohexane (FID), ppbv	5.8	1.3	4.0	
2-Methylhexane (FID), ppbv	8.3	1.1	3.4	
2,3-Dimethylpentane (FID), ppbv	3.7	1.1	3.4	
3-Methylhexane (FID), ppbv	10	1.1	3.4	
2,2,4-Trimethylpentane (FID), ppbv	2.1	1.0	3.0	
n-Heptane (FID), ppbv	19	1.1	3.4	0.1-0.2



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Laboratory No.        **1827101-01 - continued**  
 Sample Description    **SUMMA Canister 54676**

**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>
Methylcyclohexane (FID), ppbv	5.0	1.1	3.4	
2,3,4-Trimethylpentane (FID), ppbv	ND	1.0	3.0	
Toluene (FID), ppbv	3.1	1.1	3.4	0.1-0.6
2-Methylheptane (FID), ppbv	2.7	1.0	3.0	
3-Methylheptane (FID), ppbv	2.1	1.0	3.0	
n-Octane (FID), ppbv	5.0	1.0	3.0	<0.1-0.3
Ethylbenzene (FID), ppbv	ND	1.0	3.0	0.1-0.2
m+p-Xylene (FID), ppbv	1.6	1.0	3.0	0.1-0.2
Styrene (FID), ppbv	ND	1.0	3.0	<0.1-0.2
o-Xylene (FID), ppbv	ND	1.0	3.0	0.1-0.2
n-Nonane (FID), ppbv	1.1	0.9	2.7	<0.1-0.1
Isopropylbenzene (FID), ppbv	ND	0.9	2.7	
n-Propylbenzene (FID), ppbv	ND	0.9	2.7	
m-Ethyltoluene (FID), ppbv	ND	0.9	2.7	
p-Ethyltoluene (FID), ppbv	ND	0.9	2.7	
1,3,5-Trimethylbenzene (FID), ppbv	ND	0.9	2.7	
o-Ethyltoluene (FID), ppbv	ND	0.9	2.7	
1,2,4-Trimethylbenzene (FID), ppbv	ND	0.9	2.7	
n-Decane (FID), ppbv	ND	0.8	2.4	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	ND	0.9	2.7	
m-Diethylbenzene (FID), ppbv	ND	0.8	2.4	
p-Diethylbenzene (FID), ppbv	ND	0.8	2.4	
n-Undecane (FID), ppbv	ND	0.7	2.2	<0.1
n-Dodecane (FID), ppbv	ND	0.7	2.0	<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 1827101

TO: SCAQMD LAB:  OTHER:

SOURCE NAME: H/B Fire station #6 I.D. No. \_\_\_\_\_

Source Address: 18591 EDWARDS City: HUNTINGTON BEACH

Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Person: BOB CULHANE Title: FIRE CAPT Tel: (714)6256606

Analysis Requested by: Kraig MORRIS Date: 9/28/18

Approved by: FRED GONZALEZ Office: C4E Budget #: 60375

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

Suspected Violation Rule(s) 402 Other

Sample Collected by: ROBERT CULHANE Date: 9/27/18 Time: 14:55

**SAMPLE DESCRIPTION:**  
 CRUDE OIL SMELL, FROM NORTHWEST  
 @ 15 MPH, CLEAR SKIES, 4/10 INTENSITY,  
 REPORTED TO 1800 CUTSIVO 6 (#291972)  
 Sample collected in parking lot at Huntington Beach Fire  
 Station #6 located at 18591 Edwards st., Huntington Beach

VOC Analysis  
 I# 54676

**REQUESTED ANALYSIS:**

Relinquished by	Received by	Firm/Agency	Date	Time
Robert Culhane	Kraig Morris	SCAQMD	9/27/18	1600
Kraig Morris	Iliana Garcia	SCAQMD	09.27.18	0834

Remarks: