



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

**MONITORING AND ANALYSIS**  
**REPORT OF LABORATORY ANALYSIS**

(Page 1 of 3)

To: Victor Yip  
Sr. Enforcement Manager  
Compliance & Enforcement

Laboratory No. 1725325-01  
Requested By Kraig Morris  
Rule No. 402  
ST No. NA  
Report Created 09/19/2017

**Sampling Location**

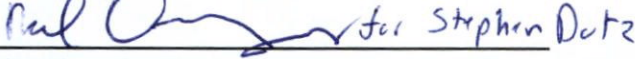
Huntington Beach Fire Station #6  
18591 Edwards Street  
Huntington Beach, CA 92648

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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:  for Stephen Dutz  
Stephen Dutz  
Principal A.Q. Chemist  
Laboratory Services

Date Reviewed: 9/19/17

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

Date Approved: 9/19/17



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Laboratory No. 1725325-01

Sample Description SUMMA Canister 54681

Sample Date 09/09/2017

Received Date 09/09/2017

Analyzed Date 09/13/2017

**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	77	0.1	0.3	100-700
Total Calibrated, ppbC	55	0.1	0.3	
Ethane (FID), ppbv	2.8	0.05	0.2	
Ethylene (FID), ppbv	<i>J (0.2)</i>	0.05	0.2	0.7-4.1
Acetylene (FID), ppbv	0.3	0.05	0.2	
Propane (FID), ppbv	2.3	0.03	0.1	0.4-5.0
Propylene (FID), ppbv	<i>J (0.04)</i>	0.03	0.1	0.2-0.7
Isobutane (FID), ppbv	0.6	0.02	0.08	0.2-0.9
n-Butane (FID), ppbv	1.4	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	ND	0.02	0.08	
cis-2-Butene (FID), ppbv	ND	0.02	0.08	
Isopentane (FID), ppbv	1.8	0.02	0.06	
1-Pentene (FID), ppbv	<i>J (0.02)</i>	0.02	0.06	
n-Pentane (FID), ppbv	0.6	0.02	0.06	0.1-0.6
Isoprene (FID), ppbv	0.2	0.02	0.06	
trans-2-Pentene (FID), ppbv	<i>J (0.02)</i>	0.02	0.06	
cis-2-Pentene (FID), ppbv	ND	0.02	0.06	
2,2-Dimethylbutane (FID), ppbv	ND	0.02	0.05	
Cyclopentane (FID), ppbv	0.1	0.02	0.06	
2,3-Dimethylbutane (FID), ppbv	<i>J (0.05)</i>	0.02	0.05	
2-Methylpentane (FID), ppbv	0.2	0.02	0.05	
3-Methylpentane (FID), ppbv	0.2	0.02	0.05	
1-Hexene (FID), ppbv	ND	0.02	0.05	<0.1-0.1
n-Hexane (FID), ppbv	0.3	0.02	0.05	0.1-0.2
Methylcyclopentane (FID), ppbv	0.4	0.02	0.05	
2,4-Dimethylpentane (FID), ppbv	<i>J (0.04)</i>	0.01	0.04	
Benzene (FID), ppbv	0.1	0.02	0.05	0.1-0.5
Cyclohexane (FID), ppbv	0.1	0.02	0.05	
2-Methylhexane (FID), ppbv	0.07	0.01	0.04	
2,3-Dimethylpentane (FID), ppbv	0.08	0.01	0.04	
3-Methylhexane (FID), ppbv	0.1	0.01	0.04	



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Laboratory No. 1725325-01 - continued

Sample Description SUMMA Canister 54681

Sample Date 09/09/2017

Received Date 09/09/2017

Analyzed Date 09/13/2017

**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>
2,2,4-Trimethylpentane (FID), ppbv	0.07	0.01	0.04	
n-Heptane (FID), ppbv	0.1	0.01	0.04	0.1-0.2
Methylcyclohexane (FID), ppbv	0.2	0.01	0.04	
2,3,4-Trimethylpentane (FID), ppbv	<i>J (0.04)</i>	0.01	0.04	
Toluene (FID), ppbv	0.4	0.01	0.04	0.1-0.6
2-Methylheptane (FID), ppbv	0.06	0.01	0.04	
3-Methylheptane (FID), ppbv	<i>J (0.03)</i>	0.01	0.04	
n-Octane (FID), ppbv	0.05	0.01	0.04	<0.1-0.3
Ethylbenzene (FID), ppbv	<i>J (0.02)</i>	0.01	0.04	0.1-0.2
m+p-Xylene (FID), ppbv	0.07	0.01	0.04	0.1-0.2
Styrene (FID), ppbv	<i>J (0.02)</i>	0.01	0.04	<0.1-0.2
o-Xylene (FID), ppbv	<i>J (0.03)</i>	0.01	0.04	0.1-0.2
n-Nonane (FID), ppbv	<i>J (0.02)</i>	0.01	0.03	<0.1-0.1
Isopropylbenzene (FID), ppbv	ND	0.01	0.03	
n-Propylbenzene (FID), ppbv	ND	0.01	0.03	
m-Ethyltoluene (FID), ppbv	<i>J (0.01)</i>	0.01	0.03	
p-Ethyltoluene (FID), ppbv	ND	0.01	0.03	
1,3,5-Trimethylbenzene (FID), ppbv	ND	0.01	0.03	
o-Ethyltoluene (FID), ppbv	ND	0.01	0.03	
1,2,4-Trimethylbenzene (FID), ppbv	0.05	0.01	0.03	
n-Decane (FID), ppbv	<i>J (0.02)</i>	0.01	0.03	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	<i>J (0.01)</i>	0.01	0.03	
m-Diethylbenzene (FID), ppbv	ND	0.01	0.03	
p-Diethylbenzene (FID), ppbv	ND	0.01	0.03	
n-Undecane (FID), ppbv	<i>J (0.01)</i>	0.009	0.03	<0.1
n-Dodecane (FID), ppbv	<i>J (0.01)</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**

DISTRICT  
 INVOICE  
 LAP AU  
LABORATORY

WO #: 1725325



TO: SCAQMD LAB:  OTHER:

SOURCE NAME: Huntington Beach Fire Station #6 I.D. No. \_\_\_\_\_

Source Address: 18591 Edwards St. City: Huntington Beach

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

Contact Person: Tony Dalton Title: Engineer Tel: (914) 375-8400

Analysis Requested by: Kraig Morris Date: 9/9/17

Approved by: \_\_\_\_\_ Office: \_\_\_\_\_ Budget #: \_\_\_\_\_

REASON REQUESTED: Court/Hearing Board  Permit Pending  Hazardous/Toxic Spill   
Suspected Violation Rule(s) 402 Other

Sample Collected by: Tony Dalton Date: 9/9/17 Time: 1045  
Engineer

**SAMPLE DESCRIPTION:**

Sample was collected in back parking area of 18591 Edwards st. in Huntington Beach at Fire station #6.  
Odor smelled like sweet crude petroleum 3 out of 5. wind 3mph out of West.

REQUESTED ANALYSIS: VOC Analysis <sup>sample can</sup> ID# ~~54681~~

Relinquished by	Received by	Firm/Agency	Date	Time
Kraig Morris	Robert Culhane	HB Fire Dept. #6	9/8/17	1445
Robert Culhane	Tony Dalton	HB Fire Dept. #6	9/9/17	0900
Tony Dalton	Kraig Morris	SCAQMD	9/9/17	1300
<i>[Signature]</i>	John B. P. <i>[Signature]</i>	SCAQMD Lab	9/9/17	14:10

Remarks: \_\_\_\_\_