



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. 1827507-01

Requested By Kraig Morris

Rule No. R402

Sampling Location

ST No. NA

HB Fire Station #6 Collected
18302 Twinford Ln.
Huntington Beach, CA 92648

Report Created 10/17/2018

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:

10/17/18

Approved By:

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

Date Approved:

10/19/2018



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Laboratory No. 1827507-01
Sample Description SUMMA Canister 54576
Sample Comments Sample was collected near 18302 Twinford Ln. in Huntington Beach. The odor was a natural gas type odor with an intensity of 4 out of 5. Wind was blowing from the west direction.

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	25000	8.0	24	100-700
Total Calibrated, ppbC	24000	8.0	24	
Ethane (FID), ppbv	330	4.0	12	
Ethylene (FID), ppbv	10	4.0	12	0.7-4.1
Acetylene (FID), ppbv	ND	4.0	12	
Propane (FID), ppbv	1700	2.7	8.0	0.4-5.0
Propylene (FID), ppbv	5.0	2.7	8.0	0.2-0.7
Isobutane (FID), ppbv	580	2.0	6.0	0.2-0.9
n-Butane (FID), ppbv	1700	2.0	6.0	0.3-1.7
1-Butene (FID), ppbv	7.6	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	530	1.6	4.8	
1-Pentene (FID), ppbv	ND	1.6	4.8	
n-Pentane (FID), ppbv	620	1.6	4.8	0.1-0.6
Isoprene (FID), ppbv	2.7	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	5.9	1.3	4.0	
Cyclopentane (FID), ppbv	22	1.6	4.8	
2,3-Dimethylbutane (FID), ppbv	17	1.3	4.0	
2-Methylpentane (FID), ppbv	110	1.3	4.0	
3-Methylpentane (FID), ppbv	70	1.3	4.0	
1-Hexene (FID), ppbv	ND	1.3	4.0	<0.1-0.1
n-Hexane (FID), ppbv	170	1.3	4.0	0.1-0.2
Methylcyclopentane (FID), ppbv	29	1.3	4.0	
2,4-Dimethylpentane (FID), ppbv	3.5	1.1	3.4	
Benzene (FID), ppbv	12	1.3	4.0	0.1-0.5
Cyclohexane (FID), ppbv	16	1.3	4.0	
2-Methylhexane (FID), ppbv	19	1.1	3.4	
2,3-Dimethylpentane (FID), ppbv	7.0	1.1	3.4	



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Laboratory No. 1827507-01 - continued
Sample Description SUMMA Canister 54576
Sample Comments Sample was collected near 18302 Twinford Ln. in Huntington Beach. The odor was a natural gas type odor with an intensity of 4 out of 5. Wind was blowing from the west direction.

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	20	1.1	3.4	
2,2,4-Trimethylpentane (FID), ppbv	4.6	1.0	3.0	
n-Heptane (FID), ppbv	45	1.1	3.4	0.1-0.2
Methylcyclohexane (FID), ppbv	13	1.1	3.4	
2,3,4-Trimethylpentane (FID), ppbv	ND	1.0	3.0	
Toluene (FID), ppbv	9.3	1.1	3.4	0.1-0.6
2-Methylheptane (FID), ppbv	6.2	1.0	3.0	
3-Methylheptane (FID), ppbv	4.0	1.0	3.0	
n-Octane (FID), ppbv	11	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	2.9	1.0	3.0	0.1-0.2
Styrene (FID), ppbv	ND	1.0	3.0	<0.1-0.2
o-Xylene (FID), ppbv	1.1	1.0	3.0	0.1-0.2
n-Nonane (FID), ppbv	2.5	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 1827507

TO: SCAQMD LAB: OTHER:
 SOURCE NAME: H/B Fire station #6 collected I.D. No. _____
 Source Address: 18302 Twinford LN City: Huntington Beach
 Mailing Address: _____ City: _____ Zip: _____
 Contact Person: Mark Thornberry Title: Firefighter Tel: (714) 375-8400

Analysis Requested by: Kraig Morris Date: 10/2/18
 Approved by: FRED COONZANG Office: CPE Budget #: 60375
 REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill
 Suspected Violation Rule(s) 402 Other

Sample Collected by: Mark Thornberry Date: 9/30/18 Time: 1900 hrs

SAMPLE DESCRIPTION:

Sample was collected NEAR 18302 Twinford LN in Huntington Beach. The odor was a natural gas type odor with an intensity of 4 out of 5. Wind was blowing from the west direction.

VOC ANALYSIS
 CANID# 54576

REQUESTED ANALYSIS:

Relinquished by	Received by	Firm/Agency	Date	Time
Mark Thornberry	Kraig Morris	SCAQMD	9/30/18 10/2/18	1045
Kraig Morris	Jiliana Garcia	SCAQMD Lab	10-2-18	8:45

Remarks: