



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

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

(Page 1 of 7)

To: Marian Coleman
Sr. Enforcement Manager
Compliance & Enforcement

Laboratory No. 1711009-01
Requested By Kraig Morris

Sampling Location
HB Fire Station #2

Rule No. NA
ST No. NA
Report Created 08/04/2017

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS, AND RESULTS

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)
Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS) - Tentatively Identified

See attached results and sample information.

Reviewed By:

Stephen Dutz
Principal A.Q. Chemist
Laboratory Services

Date Reviewed:

08/08/17

Approved By:

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

Date Approved:

8/8/17



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(Page 2 of 7)

Laboratory No. 1711009-01

Sample Description SUMMA Canister E3369

Sample Date 04/18/2017

Received Date 04/20/2017

Analyzed Date 04/26/2017

Volatile Organic Compounds (VOCs) in Ambient Air by EPA TO-15 (GC/MS)

<u>Analyte, Unit</u>	<u>Result</u>	<u>MDL</u>	<u>MRL</u>	<u>Ambient Avg</u>
1,1,1-Trichloroethane, ppbv	ND	0.1	0.1	0.1
1,1,2,2-Tetrachloroethane, ppbv	ND	0.1	0.1	<0.1
1,1-Dichloroethylene, ppbv	ND	0.1	0.1	
1,1,2-Trichloroethane, ppbv	ND	0.1	0.1	<0.1
1,1-Dichloroethane, ppbv	ND	0.1	0.1	<0.1
1,2,3-Trimethylbenzene, ppbv	ND	0.1	0.1	
1,2,4-Trichlorobenzene, ppbv	ND	0.1	0.1	<0.1
1,2,4-Trimethylbenzene, ppbv	ND	0.1	0.1	
1,2-Dibromoethane, ppbv	ND	0.1	0.1	
1,2-Dichlorobenzene, ppbv	ND	0.1	0.1	
1,2-Dichloroethane, ppbv	ND	0.1	0.1	
1,2-Dichloropropane, ppbv	ND	0.1	0.1	<0.1
1,3,5-Trimethylbenzene, ppbv	ND	0.1	0.1	
1,3-Butadiene, ppbv	ND	0.1	0.1	<0.1
1,3-Dichlorobenzene, ppbv	ND	0.1	0.1	
1,4-Dichlorobenzene, ppbv	ND	0.1	0.1	
1,4-Dioxane, ppbv	ND	0.1	0.1	<0.1
1-Butene, ppbv	ND	0.1	0.1	
1-Hexene, ppbv	ND	0.1	0.1	
1-Pentene, ppbv	ND	0.1	0.1	
2,2,4-Trimethylpentane, ppbv	ND	0.1	0.1	
Isopropanol, ppbv	ND	0.1	0.1	
2,2-Dimethylbutane, ppbv	0.2	0.1	0.1	
2,3,4-Trimethylpentane, ppbv	ND	0.1	0.1	
2,3-Dimethylbutane, ppbv	0.8	0.1	0.1	
2,3-Dimethylpentane, ppbv	0.2	0.1	0.1	
2,4-Dimethylpentane, ppbv	ND	0.1	0.1	
2-Butanone (MEK), ppbv	0.3	0.1	0.1	0.3
2-Hexanone (MBK), ppbv	ND	0.1	0.1	
2-Methyl-2-propanethiol, ppbv	ND	0.1	0.1	
2-Methylheptane, ppbv	0.1	0.1	0.1	
2-Methylhexane, ppbv	0.7	0.1	0.1	



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(Page 3 of 7)

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2-Methylpentane, ppbv	5.0	0.1	0.1	
2-Propenal, ppbv	ND	0.1	0.1	
3-Methylheptane, ppbv	ND	0.1	0.1	
3-Methylhexane, ppbv	0.9	0.1	0.1	
3-Methylpentane, ppbv	3.3	0.1	0.1	
Acetone, ppbv	4.7	0.1	0.1	7.7
Benzene, ppbv	0.4	0.1	0.1	
Benzyl chloride, ppbv	ND	0.1	0.1	<0.1
Bromodichloromethane, ppbv	ND	0.1	0.1	<0.1
Bromoform, ppbv	ND	0.1	0.1	<0.1
Bromomethane, ppbv	ND	0.1	0.1	<0.1
Carbon disulfide, ppbv	ND	0.1	0.1	<0.1
Carbon Tetrachloride, ppbv	ND	0.1	0.1	0.1
Chlorobenzene, ppbv	ND	0.1	0.1	<0.1
Chloroethane, ppbv	ND	0.1	0.1	<0.1
Chloroform, ppbv	ND	0.1	0.1	<0.1
Chloromethane, ppbv	0.5	0.1	0.1	0.6
cis-1,2-Dichloroethylene, ppbv	ND	0.1	0.1	
cis-1,3-Dichloropropene, ppbv	ND	0.1	0.1	
cis-2-Butene, ppbv	ND	0.1	0.1	
cis-2-Pentene, ppbv	ND	0.1	0.1	
Cyclohexane, ppbv	0.7	0.1	0.1	
Cyclopentane, ppbv	0.9	0.1	0.1	
Dibromochloromethane, ppbv	ND	0.1	0.1	<0.1
Dichlorodifluoromethane (Freon 12), ppbv	0.5	0.1	0.1	0.5
Dichlorotetrafluoroethane (Freon 114), ppbv	ND	0.1	0.1	<0.1
Ethanol, ppbv	0.7	0.1	0.1	7.3
Ethyl Acetate, ppbv	ND	0.1	0.1	<0.1
Ethylbenzene, ppbv	ND	0.1	0.1	
Hexachloro-1,3-butadiene, ppbv	ND	0.1	0.1	
Hexachlorobutadiene, ppbv	ND	0.1	0.1	<0.1
Isobutane, ppbv	23	0.1	0.1	



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(Page 4 of 7)

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Isopentane, ppbv	18	0.1	0.1	
Isoprene, ppbv	0.1	0.1	0.1	
Isopropylbenzene, ppbv	ND	0.1	0.1	
Limonene, ppbv	ND	0.1	0.1	
m+p-Xylene, ppbv	0.1	0.1	0.1	
m-Diethylbenzene, ppbv	ND	0.1	0.1	
Methyl Isobutyl Ketone (MIBK), ppbv	ND	0.1	0.1	
Methyl Methacrylate, ppbv	ND	0.1	0.1	
Methyl tert-Butyl Ether (MTBE), ppbv	ND	0.1	0.1	
Methylcyclohexane, ppbv	0.2	0.1	0.1	
Methylcyclopentane, ppbv	0.9	0.1	0.1	
Methylene Chloride, ppbv	ND	0.1	0.1	0.2
m-Ethyltoluene, ppbv	ND	0.1	0.1	
Naphthalene, ppbv	ND	0.1	0.1	
n-Butane, ppbv	39	0.1	0.1	
n-Decane, ppbv	ND	0.1	0.1	
n-Dodecane, ppbv	ND	0.1	0.1	
n-Heptane, ppbv	3.0	0.1	0.1	
n-Hexane, ppbv	11	0.1	0.1	
n-Nonane, ppbv	ND	0.1	0.1	
n-Octane, ppbv	0.3	0.1	0.1	
n-Pentane, ppbv	29	0.1	0.1	
n-Propylbenzene, ppbv	ND	0.1	0.1	
n-Undecane, ppbv	ND	0.1	0.1	
o-Ethyltoluene, ppbv	ND	0.1	0.1	
o-Xylene, ppbv	ND	0.1	0.1	
p-Diethylbenzene, ppbv	ND	0.1	0.1	
p-Ethyltoluene, ppbv	ND	0.1	0.1	
Propane, ppbv	52	0.1	0.1	
Propylene, ppbv	28	0.1	0.1	0.5
Styrene, ppbv	ND	0.1	0.1	
Tetrachloroethylene, ppbv	ND	0.1	0.1	



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(Page 5 of 7)

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Tetrahydrofuran, ppbv	ND	0.1	0.1	<0.1
Thiophene, ppbv	ND	0.1	0.1	
Toluene, ppbv	0.4	0.1	0.1	
trans-1,2-Dichloroethylene, ppbv	ND	0.1	0.1	
trans-1,3-Dichloropropene, ppbv	ND	0.1	0.1	
trans-2-Butene, ppbv	ND	0.1	0.1	
trans-2-Pentene, ppbv	ND	0.1	0.1	
Trichloroethylene, ppbv	ND	0.1	0.1	<0.2
Trichlorofluoromethane (Freon 11), ppbv	0.2	0.1	0.1	0.2
Trichlorotrifluoroethane (Freon 113), ppbv	ND	0.1	0.1	0.1
Vinyl acetate, ppbv	ND	0.1	0.1	<0.1
Vinyl chloride, ppbv	ND	0.1	0.1	<0.1
1,1-Dichloroethene (VDC), ppbv	ND	0.1	0.1	<0.1



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(Page 6 of 7)

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—TENTATIVELY IDENTIFIED COMPOUNDS—
CONCENTRATIONS ARE APPROXIMATED

Analyte, Unit
No TICs Found, ppbv

Result
0.0

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

- DISTRICT INFORMATION
- INVOICE SOURCE
- LAP AUDIT

LABORATORY NO 1711009

TO: SCAQMD LAB: OTHER: _____
 SOURCE NAME: HB Fire Station #2 I.D. No. _____
 Source Address: collected at 16402 Gothard City: Huntington Beach
 Mailing Address: _____ City: _____ Zip: _____
 Contact Person: Robert Glenn Title: Fire person Tel: _____

Analysis Requested by: Kraig Morris Date: 4/20/17
 Approved by: [Signature] Office: CIE Budget #: 60375
 REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill
 Suspected Violation Rule(s) _____ Other

Sample Collected by: R. Glenn Date: 4-18-17 Time: 1015

SAMPLE DESCRIPTION:

Foul odor called in by resident (incident # H170617A)
 H42 responded to address. H42 crew noticed mild
odor (petroleum?) and took a sample. odor intensity
 would change with wind velocity. odor intensity
 was a (2) on a 5 scale. address was 16402 Gothard.

REQUESTED ANALYSIS: PAMS Analysis ID# E3369

Relinquished by	Received by	Firm/Agency	Date	Time
<u>Kraig M.</u>	<u>[Signature]</u>	<u>HBFD</u>	<u>3-16-17</u>	<u>1110</u>
<u>Robert Glenn</u>	<u>[Signature]</u>	<u>AGM/BFD</u>	<u>4-20-17</u>	<u>0815</u>
<u>Kraig M.</u>	<u>H. Phillipson</u>	<u>SCAQMD Lab</u>	<u>4/20/17</u>	<u>1319</u>

Remarks: