

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

MONITORING & ANALYSIS
REPORT OF LABORATORY ANALYSIS

TO: Jason C. Low, Ph.D.
Assistant Deputy Executive Officer
Science and Technology Advancement

LABORATORY NO: 1707405

REFERENCE NO: MSJ-146-55

SAMPLE DESCRIPTION:
Summa Canister
Canister # E4243

DATE SAMPLED: 03/14/17

DATE RECEIVED: 03/15/17

DATE ANALYZED: 03/15/17

SAMPLE LOCATION:
H.B.Fire Station #2
16221 Gotherd
Huntington Beach, CA 92647

ANALYZED BY: Brian Sinajon

REQUESTED BY: Kraig Morris

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Qualitative Analysis and Quantitation of Toxic Organic Compounds by
Gas Chromatography (GC) with Mass Spectrometry (MS)

Note: See attached for speciated results.

Date Approved: 8/10/17

Approved By: 

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

Lab Number: 1707405
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Sample Date	03/14/17	Ambient Air
Canister	E4243	
Sampling Location	H.B. Fire Station #2	

<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc.(ppbv)</u>
1,2-Dichlorobenzene	N.D.	<0.1
1,2-Dichloropropane	N.D.	<0.1
1,3-Butadiene	N.D.	<0.1-0.2
1,4-Dichlorobenzene	<0.1	<0.1
2-Propenal	N.D.	0.1-0.4
Acetone	12	3.7-13.7
Benzene	0.8	0.3-1.3
Carbon tetrachloride	<0.1	0.1
Chloroform	<0.1	<0.1
Ethylbenzene	0.1	0.1-0.5
m+p-Xylene	0.1	0.3-1.5
Methyl t-butyl ether	N.D.	
Methylene chloride	0.2	0.1-0.4
o-Xylene	<0.1	0.1-0.6
Styrene	N.D.	<0.1-0.2
Tetrachloroethylene	<0.1	<0.1-0.1
Toluene	1.1	0.8-4.1
Trichloroethylene	N.D.	<0.1-0.1
Vinyl chloride	N.D.	<0.1
1,1,1-Trichloroethane	<0.1	
1,1,2-Trichloroethane	N.D.	
1,1-Dichloroethane	N.D.	
1,1-Dichloroethylene	N.D.	
1,2,4-Trichlorobenzene	N.D.	
1,2,4-Trimethylbenzene	<0.1	
1,2-Dibromoethane	N.D.	0.0
1,2-Dichloroethane	N.D.	<0.1

N.D.=Not Detected

NMOC=Non-Methane Organic Compounds

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<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc.(ppbv)</u>
1,3,5-Trimethylbenzene	<0.1	
1,3-Dichlorobenzene	N.D.	
1,4-Dioxane	N.D.	
2-Butanone (MEK)	0.7	
2-Hexanone (MBK)	N.D.	
Benzyl chloride	N.D.	
Bromodichloromethane	N.D.	
Bromoform	N.D.	
Bromomethane	<0.1	
c-1,2-Dichloroethylene	N.D.	
c-1,3-Dichloropropene	N.D.	
Carbon disulfide	<0.1	
Chlorobenzene	N.D.	
Chloroethane	N.D.	
Chloromethane	0.6	
Cyclohexane	0.9	
Dibromochloromethane	N.D.	
Ethanol	1.2	0.0
Ethyl acetate	N.D.	
Freon-11	0.2	
Freon-113	<0.1	
Freon-114	N.D.	
Freon-12	0.5	
Hexachloro-1,3-butadiene	N.D.	
Isopropanol	0.3	
Methyl isobutyl ketone	N.D.	
Methyl methacrylate	N.D.	

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<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc.(ppbv)</u>
Naphthalene	0.7	
n-Heptane	3.0	0.1-0.6
n-Hexane	9.4	0.2-1.0
p-Ethyltoluene	<0.1	
Propylene	N.D.	0.5-2.0
t-1,2-Dichloroethylene	N.D.	
t-1,3-Dichloropropene	N.D.	
Tetrachloroethane	N.D.	
Tetrahydrofuran	N.D.	
Vinyl acetate	N.D.	
1,2,3-Trimethylbenzene	<0.1	
1-Butene	0.1	0.1-0.3
1-Hexene	N.D.	<0.1-0.1
1-Pentene	N.D.	
2,2,4-Trimethylpentane	0.1	
2,2-Dimethylbutane	0.3	
2,3,4-Trimethylpentane	<0.1	
2,3-Dimethylbutane	1.3	
2,3-Dimethylpentane	0.5	
2,4-Dimethylpentane	0.2	
2-Methylheptane	0.3	
2-Methylhexane	1.2	
2-Methylpentane	8.9	
3-Methylheptane	0.2	
3-Methylhexane	1.6	
3-Methylpentane	4.9	
Acetylene	N.D.	

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<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc.(ppbv)</u>
Acetylene+ethylene	N.D.	1.4-8.3
cis-2-Butene	<0.1	
cis-2-Pentene	N.D.	
Cyclopentane	1.5	
Ethane (as benzene)	5.0	1.0-5.0
Ethylene	N.D.	
Isobutane	29	0.8-3.7
Isopentane	26	
Isoprene	<0.1	0.0
Isopropylbenzene	N.D.	
m-Diethylbenzene	N.D.	
Methylcyclohexane	0.6	
Methylcyclopentane	2.4	
m-Ethyltoluene	<0.1	
n-Butane	58	1.2-6.8
n-Decane	<0.1	<0.1-0.1
n-Dodecane	N.D.	<0.1
n-Nonane	<0.1	<0.1-0.1
n-Octane	0.6	<0.1-0.3
n-Pentane	40	0.6-2.9
n-Propylbenzene	<0.1	
n-Undecane	<0.1	<0.1
o-Ethyltoluene	<0.1	
p-Diethylbenzene	N.D.	
Propane	78	1.3-16.0
trans-2-Butene	<0.1	
trans-2-Pentene	N.D.	

N.D.=Not Detected

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Sample Date 03/14/17 **Ambient Air**
Canister E4243
Sampling Location H.B. Fire Station #2

<u>Compound</u>	<u>Conc. (ppbv)</u>	<u>Conc.(ppbv)</u>
<u>Additional Compound (as benzene)</u>		
Ethane (tentatively identified)	5.0	

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

- DISTRICT INFORMATION
 INVOICE SOURCE
 LAP AUDIT

LABORATORY NO. 1707405

TO: SCAQMD LAB: OTHER:
 SOURCE NAME: H.B FIRE Station #2 I.D. No. ~~61243~~
 Source Address: 16221 Gothard City: HB CA 92647
 Mailing Address: 2000 MAIN ST. City: HB Zip: 92648
 Contact Person: REX RYSEWIK Title: FIRE Captain Tel: 760 468 1241

Analysis Requested by: Kraig Morris Date: 3/15/17
 Approved by: Julian Byg Office: C&E Budget #: 60375
 REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill
 Suspected Violation Rule(s) 402 Other

Sample Collected by: RYSEWIK Date: 3-14-17 Time: 1340

SAMPLE DESCRIPTION:

ODOR SAMPLE OBTAINED FROM OUTSIDE ATMOSPHERE
 Gothard / muddy Circle
 Approx wind speed 3 mph from WEST
 ODOR Intensity 3 out of 5
 Heavy non-refined petroleum ODOR. ID# E4243

REQUESTED ANALYSIS: VOC

Relinquished by	Received by	Firm/Agency	Date	Time
<u>Kraig M.</u>	<u>Rex Rysewik</u>	<u>HBFD</u>	<u>3/23/17</u>	<u>1520</u>
<u>REX RYSEWIK</u>	<u>Kraig Morris</u>	<u>SCAQMD</u>	<u>3/14/17</u>	<u>1515</u>
<u>Kraig Morris</u>	<u>Vanessa Vergara</u>	<u>SCAQMD/LAB</u>	<u>3/15/17</u>	<u>0815</u>

Remarks: