



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

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

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To: Victor Yip
Sr. Enforcement Manager
Compliance & Enforcement

Laboratory No. 1819901-01
Requested By Kraig Morris
Rule No. R402
ST No. NA
Report Created 08/23/2018

Sampling Location
Lifeguard #22 at Bolsa Chica
Huntington Beach, CA 92649


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: 08/24/18

Approved By: 

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

Date Approved: 8/24/18



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Laboratory No. 1819901-01

Sample Description SUMMA Canister E4308

Sample Date 07/17/2018

Received Date 07/18/2018

Analyzed Date 07/18/2018

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	4900	0.4	1.2	100-700
Total Calibrated, ppbC	4800	0.4	1.2	
Ethane (FID), ppbv	190	0.2	0.6	
Ethylene (FID), ppbv	0.2	0.2	0.6	0.7-4.1
Acetylene (FID), ppbv	ND	0.2	0.6	
Propane (FID), ppbv	400	0.1	0.4	0.4-5.0
Propylene (FID), ppbv	ND	0.1	0.4	0.2-0.7
Isobutane (FID), ppbv	83	0.1	0.3	0.2-0.9
n-Butane (FID), ppbv	280	0.1	0.3	0.3-1.7
1-Butene (FID), ppbv	ND	0.1	0.3	0.1-0.3
trans-2-Butene (FID), ppbv	ND	0.1	0.3	
cis-2-Butene (FID), ppbv	ND	0.1	0.3	
Isopentane (FID), ppbv	92	0.08	0.2	
1-Pentene (FID), ppbv	ND	0.08	0.2	
n-Pentane (FID), ppbv	110	0.08	0.2	0.1-0.6
Isoprene (FID), ppbv	ND	0.08	0.2	
trans-2-Pentene (FID), ppbv	0.08	0.08	0.2	
cis-2-Pentene (FID), ppbv	ND	0.08	0.2	
2,2-Dimethylbutane (FID), ppbv	0.7	0.07	0.2	
Cyclopentane (FID), ppbv	3.8	0.08	0.2	
2,3-Dimethylbutane (FID), ppbv	3.7	0.07	0.2	
2-Methylpentane (FID), ppbv	21	0.07	0.2	
3-Methylpentane (FID), ppbv	17	0.07	0.2	
1-Hexene (FID), ppbv	ND	0.07	0.2	<0.1-0.1
n-Hexane (FID), ppbv	35	0.07	0.2	0.1-0.2
Methylcyclopentane (FID), ppbv	5.3	0.07	0.2	
2,4-Dimethylpentane (FID), ppbv	0.6	0.06	0.2	
Benzene (FID), ppbv	1.5	0.07	0.2	0.1-0.5
Cyclohexane (FID), ppbv	2.8	0.07	0.2	
2-Methylhexane (FID), ppbv	1.7	0.06	0.2	
2,3-Dimethylpentane (FID), ppbv	4.0	0.06	0.2	
3-Methylhexane (FID), ppbv	5.0	0.06	0.2	



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Laboratory No. 1819901-01 - continued

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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	1.0	0.05	0.2	
n-Heptane (FID), ppbv	9.7	0.06	0.2	0.1-0.2
Methylcyclohexane (FID), ppbv	2.4	0.06	0.2	
2,3,4-Trimethylpentane (FID), ppbv	0.07	0.05	0.2	
Toluene (FID), ppbv	1.6	0.06	0.2	0.1-0.6
2-Methylheptane (FID), ppbv	1.5	0.05	0.2	
3-Methylheptane (FID), ppbv	1.1	0.05	0.2	
n-Octane (FID), ppbv	2.8	0.05	0.2	<0.1-0.3
Ethylbenzene (FID), ppbv	0.2	0.05	0.2	0.1-0.2
m+p-Xylene (FID), ppbv	1.0	0.05	0.2	0.1-0.2
Styrene (FID), ppbv	ND	0.05	0.2	<0.1-0.2
o-Xylene (FID), ppbv	0.2	0.05	0.2	0.1-0.2
n-Nonane (FID), ppbv	0.7	0.04	0.1	<0.1-0.1
Isopropylbenzene (FID), ppbv	0.04	0.04	0.1	
n-Propylbenzene (FID), ppbv	ND	0.04	0.1	
m-Ethyltoluene (FID), ppbv	0.09	0.04	0.1	
p-Ethyltoluene (FID), ppbv	0.04	0.04	0.1	
1,3,5-Trimethylbenzene (FID), ppbv	0.06	0.04	0.1	
o-Ethyltoluene (FID), ppbv	0.04	0.04	0.1	
1,2,4-Trimethylbenzene (FID), ppbv	ND	0.04	0.1	
n-Decane (FID), ppbv	0.2	0.04	0.1	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	ND	0.04	0.1	
m-Diethylbenzene (FID), ppbv	ND	0.04	0.1	
p-Diethylbenzene (FID), ppbv	ND	0.04	0.1	
n-Undecane (FID), ppbv	0.04	0.04	0.1	<0.1
n-Dodecane (FID), ppbv	ND	0.03	0.1	<0.1

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

- DISTRICT INFORMATION
 INVOICE SOURCE
 LAP AUDIT

LABORATORY NO 1819901

TO: SCAQMD LAB: OTHER:
 SOURCE NAME: Lifeguard #22 at Bolsa Chica I.D. No. _____
 Source Address: Lifeguard #22 at Bolsa Chica City: Huntington Beach
 Mailing Address: DB HQ City: _____ Zip: _____
 Contact Person: Kathy Morris Title: Air Quality Inspector Tel: (909)396-3279

Analysis Requested by: Kathy Morris Date: 7/18/18
 Approved by: FRED GONZALES Office: C9E Budget #: 60375
 REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill
 Suspected Violation Rule(s) 402 Other

Sample Collected by: Kathy Morris Date: 7/17/18 Time: 1611

SAMPLE DESCRIPTION:

Collected samples near Lifeguard #22 at Bolsa Chica beach.
 Odor lasted approximately 5 minutes from 1609 to 1614 hrs.
 Intensity of odor was 2 out of 5. Odor smelled
 like natural gas and rotten eggs.

Sulfur Analysis
 Ted the bag I.D.# 150596

REQUESTED ANALYSIS:

Sample CAN
 VOC ANALYSIS I.D.# E4308

Relinquished by	Received by	Firm/Agency	Date	Time
Kathy Morris	Iliana Garcia	SCAQMD LAB	7/18/18 10	0935

Remarks: