



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

MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

(Page 1 of 5)

To: Victor Yip
Sr. Enforcement Manager
Compliance & Enforcement

Laboratory No. 1808904-01
Requested By Kraig Morris
Rule No. R402
ST No. NA
Report Created 08/24/2018

Sampling Location

Offshore odor event 3/29/18 (inside)
Edinger Ave & Montego Drive
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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MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS

(Page 2 of 5)

Laboratory No. 1808904-01
 Sample Description SUMMA Canister 54062, SUMMA
 Sample Comments Sample collected inside entry way to home of complainant (complaint #286905). Odor was a 1 out of 5 at time of collection. Temperature 64F, 5-6 mph SW Wind
 Sample Date 03/29/2018 Received Date 03/30/2018 Analyzed Date 04/06/2018

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	1500	0.1	0.3	100-700
Total Calibrated, ppbC	1500	0.1	0.3	
Ethane (FID), ppbv	65	0.05	0.2	
Ethylene (FID), ppbv	0.3	0.05	0.2	0.7-4.1
Acetylene (FID), ppbv	0.4	0.05	0.2	
Propane (FID), ppbv	150	0.03	0.1	0.4-5.0
Propylene (FID), ppbv	J (0.1)	0.03	0.1	0.2-0.7
Isobutane (FID), ppbv	29	0.02	0.08	0.2-0.9
n-Butane (FID), ppbv	85	0.02	0.08	0.3-1.7
1-Butene (FID), ppbv	0.1	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	25	0.02	0.06	
1-Pentene (FID), ppbv	J (0.02)	0.02	0.06	
n-Pentane (FID), ppbv	27	0.02	0.06	0.1-0.6
Isoprene (FID), ppbv	2.4	0.02	0.06	
trans-2-Pentene (FID), ppbv	J (0.02)	0.02	0.06	
cis-2-Pentene (FID), ppbv	ND	0.02	0.06	
2,2-Dimethylbutane (FID), ppbv	0.2	0.02	0.05	
Cyclopentane (FID), ppbv	0.9	0.02	0.06	
2,3-Dimethylbutane (FID), ppbv	0.7	0.02	0.05	
2-Methylpentane (FID), ppbv	4.4	0.02	0.05	
3-Methylpentane (FID), ppbv	3.2	0.02	0.05	
1-Hexene (FID), ppbv	ND	0.02	0.05	<0.1-0.1
n-Hexane (FID), ppbv	6.8	0.02	0.05	0.1-0.2
Methylcyclopentane (FID), ppbv	1.1	0.02	0.05	
2,4-Dimethylpentane (FID), ppbv	0.1	0.01	0.04	
Benzene (FID), ppbv	0.3	0.02	0.05	0.1-0.5
Cyclohexane (FID), ppbv	0.6	0.02	0.05	
2-Methylhexane (FID), ppbv	0.3	0.01	0.04	



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Laboratory No. 1808904-01 - continued
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 Sample Comments Sample collected inside entry way to home of complainant (complaint #286905). Odor was a 1 out of 5 at time of collection. Temperature 64F, 5-6 mph SW Wind
 Sample Date 03/29/2018 Received Date 03/30/2018 Analyzed Date 04/06/2018

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>
2,3-Dimethylpentane (FID), ppbv	0.8	0.01	0.04	
3-Methylhexane (FID), ppbv	1.0	0.01	0.04	
2,2,4-Trimethylpentane (FID), ppbv	0.2	0.01	0.04	
n-Heptane (FID), ppbv	1.9	0.01	0.04	0.1-0.2
Methylcyclohexane (FID), ppbv	0.5	0.01	0.04	
2,3,4-Trimethylpentane (FID), ppbv	J (0.03)	0.01	0.04	
Toluene (FID), ppbv	0.4	0.01	0.04	0.1-0.6
2-Methylheptane (FID), ppbv	0.2	0.01	0.04	
3-Methylheptane (FID), ppbv	0.2	0.01	0.04	
n-Octane (FID), ppbv	0.4	0.01	0.04	<0.1-0.3
Ethylbenzene (FID), ppbv	0.1	0.01	0.04	0.1-0.2
m+p-Xylene (FID), ppbv	0.2	0.01	0.04	0.1-0.2
Styrene (FID), ppbv	0.05	0.01	0.04	<0.1-0.2
o-Xylene (FID), ppbv	0.06	0.01	0.04	0.1-0.2
n-Nonane (FID), ppbv	0.1	0.01	0.03	<0.1-0.1
Isopropylbenzene (FID), ppbv	J (0.02)	0.01	0.03	
n-Propylbenzene (FID), ppbv	J (0.01)	0.01	0.03	
m-Ethyltoluene (FID), ppbv	J (0.03)	0.01	0.03	
p-Ethyltoluene (FID), ppbv	J (0.02)	0.01	0.03	
1,3,5-Trimethylbenzene (FID), ppbv	J (0.01)	0.01	0.03	
o-Ethyltoluene (FID), ppbv	J (0.02)	0.01	0.03	
1,2,4-Trimethylbenzene (FID), ppbv	0.05	0.01	0.03	
n-Decane (FID), ppbv	0.05	0.01	0.03	<0.1-0.1
1,2,3-Trimethylbenzene (FID), ppbv	0.04	0.01	0.03	
m-Diethylbenzene (FID), ppbv	J (0.02)	0.01	0.03	
p-Diethylbenzene (FID), ppbv	ND	0.01	0.03	
n-Undecane (FID), ppbv	J (0.02)	0.009	0.03	<0.1
n-Dodecane (FID), ppbv	J (0.02)	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 INFORMATION
- INVOICE SOURCE
- LAP AUDIT

LABORATORY NO 1808904-01

TO: SCAQMD LAB: OTHER:

SOURCE NAME: offshore odor event 3/29/18 (inside) I.D. No. _____

Source Address: Edinger Ave & Montego Dr. City: Huntington Beach

Mailing Address: _____ City: _____ Zip: _____

Contact Person: KEAIG MORRIS Title: Air Quality Inspector Tel: (909)396-3279

Analysis Requested by: KEAIG MORRIS Date: 3/30/18

Approved by: MARK WUNDERLICH Office: C&E Budget #: 60-375

REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill

Suspected Violation Rule(s) 4-02 Other

Sample Collected by: KEAIG MORRIS Date: 3/29/18 Time: 1530

SAMPLE DESCRIPTION:

Rotten Egg odor was detected near the intersection of Edinger Ave & Montego Dr. in Huntington Beach in response to complaint # 286905. sample was collected inside entry way to home of complainant. odor was a 1 out of 5 at time of collection.

T = 64°F, sunny, 5-6 mph 210° SW wind (outside)

REQUESTED ANALYSIS:

VOC ANALYSIS
Sample CAN ID# 54062

Relinquished by	Received by	Firm/Agency	Date	Time
<u>KEAIG MORRIS</u>	<u>H Phillipson</u>	<u>SCAQMD Lab</u>	<u>3/30/18</u>	<u>0830</u>

Remarks:

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

- DISTRICT INFORMATION
- INVOICE SOURCE
- LAP AUDIT

LABORATORY NO. 1808904-02

TO: SCAQMD LAB: OTHER:

SOURCE NAME: offshore odor event 3/29/18 (inside) I.D. No. _____

Source Address: Edinger Ave f Montego Dr. City: Huntington Beach

Mailing Address: _____ City: _____ Zip: _____

Contact Person: Kraig Morris Title: Air Quality Inspector Tel: (909) 397-3279

Analysis Requested by: Kraig Morris Date: 3/30/18

Approved by: MARC WOODRUM Office: C96 Budget #: 60-375

REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill

Suspected Violation Rule(s) 402 Other

Sample Collected by: Kraig Morris Date: 3/29/18 Time: 1530

SAMPLE DESCRIPTION:

Rotten egg odor was detected near the intersection of Edinger Ave f Montego Dr. in Huntington Beach in response to complaint # 286905. Sample was collected inside entry way to home of complainant. Odor was a 1 out of 5 at time of collection.
T=64°, sunny, 5-6 mph 210° SW wind. (outside)

REQUESTED ANALYSIS:

Sulfur Analysis
Tedlar bag ID # 50536

Relinquished by	Received by	Firm/Agency	Date	Time
<u>[Signature]</u>	<u>H. Phillips</u>	<u>SCAQMD LAB</u>	<u>3/30/18</u>	<u>0830</u>

Remarks: