



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

**MONITORING AND ANALYSIS  
REPORT OF LABORATORY ANALYSIS**

(Page 1 of 6)

**To:** Sumner Wilson  
Monitoring Operations Manager  
Science & Technology Advancement

**Laboratory No.** 2101922-01  
**Requested By** Sumner Wilson

**Rule No.** NA

**Sampling Location**  
Northwood High School  
4515 Portola Pkwy  
Irvine, CA

**ST No.** NA

**Report Created** 01/28/2021

**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:** \_\_\_\_\_

**Approved By:** \_\_\_\_\_  
Aaron Katzenstein, Ph.D.  
Senior Manager  
Laboratory Services  
(909) 396-2219

**Date Approved:** \_\_\_\_\_



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

**MONITORING AND ANALYSIS**  
**REPORT OF LABORATORY ANALYSIS**

(Page 2 of 6)

**Laboratory No.** 2101922-01  
**Sample Description** 24 Hour, SILCO Canister SM-S1016, AA Asphalt. Northwood High School.  
**Sample Comments** Note TO-15 standards were expired at time of analysis.  
**Sample Date 01/15/2021** **Received Date 01/19/2021** **Analyzed Date 01/21/2021**

**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	0.009	0.03	0.1
1,1,1,2-Tetrachloroethane, ppbv	ND	0.02	0.07	<0.1
1,1,2-Trichloroethane, ppbv	ND	0.03	0.09	<0.1
1,1-Dichloroethane, ppbv	ND	0.01	0.04	<0.1
1,1-Dichloroethylene, ppbv	ND	0.03	0.09	
1,2,4-Trichlorobenzene, ppbv	ND (QX)	0.08	0.2	<0.1
1,2,4-Trimethylbenzene, ppbv	0.08 (LJ)	0.02	0.05	0.1
1,2-Dibromoethane, ppbv	ND	0.02	0.08	
1,2-Dichlorobenzene, ppbv	ND	0.04	0.1	
1,2-Dichloroethane, ppbv	<i>J (0.01)</i>	0.01	0.04	
1,2-Dichloropropane, ppbv	ND	0.01	0.03	<0.1
1,3,5-Trimethylbenzene, ppbv	ND	0.03	0.1	0.1
1,3-Butadiene, ppbv	ND	0.03	0.08	<0.1
1,3-Dichlorobenzene, ppbv	ND (QX)	0.03	0.1	
1,4-Dichlorobenzene, ppbv	ND (QX)	0.04	0.1	
1,4-Dioxane, ppbv	<i>J (0.04)</i>	0.04	0.1	<0.1
2-Butanone (MEK), ppbv	0.3	0.06	0.2	0.3
2-Hexanone (MBK), ppbv	ND	0.05	0.1	
2-Propenal, ppbv	0.2	0.05	0.2	
Acetone, ppbv	5.6 (EH)	0.3	0.9	7.7
Benzene, ppbv	0.1	0.01	0.03	0.6
Benzyl chloride, ppbv	ND (QX)	0.03	0.08	<0.1
Bromodichloromethane, ppbv	ND	0.01	0.04	<0.1
Bromoform, ppbv	ND	0.04	0.1	<0.1
Bromomethane, ppbv	ND	0.03	0.08	<0.1
Carbon disulfide, ppbv	ND	0.04	0.1	<0.1
Carbon Tetrachloride, ppbv	0.1	0.009	0.03	0.1
Chlorobenzene, ppbv	ND	0.02	0.05	<0.1
Chloroethane, ppbv	ND	0.02	0.06	<0.1
Chloroform, ppbv	0.04	0.008	0.02	<0.1
Chloromethane, ppbv	0.6	0.03	0.08	0.6



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

**MONITORING AND ANALYSIS**  
**REPORT OF LABORATORY ANALYSIS**

(Page 3 of 6)

**Laboratory No.** 2101922-01 - continued  
**Sample Description** 24 Hour, SILCO Canister SM-S1016, AA Asphalt. Northwood High School.  
**Sample Comments** Note TO-15 standards were expired at time of analysis.  
**Sample Date 01/15/2021** **Received Date 01/19/2021** **Analyzed Date 01/21/2021**

**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>
cis-1,2-Dichloroethylene, ppbv	ND	0.01	0.04	
cis-1,3-Dichloropropene, ppbv	ND	0.03	0.1	
Cyclohexane, ppbv	0.07	0.01	0.03	0.1
Dibromochloromethane, ppbv	ND	0.03	0.08	<0.1
Dichlorodifluoromethane (Freon 12), ppbv	0.5	0.03	0.09	0.5
Dichlorotetrafluoroethane (Freon 114), ppbv	ND	0.02	0.06	<0.1
Ethanol, ppbv	10 (LJ)	0.3	0.9	7.3
Ethyl Acetate, ppbv	ND	0.08	0.2	<0.1
Ethylbenzene, ppbv	0.07	0.02	0.07	0.2
Ethylene oxide, ppbv	0.1 (LJ)	0.02	0.06	
Hexachloro-1,3-butadiene, ppbv	ND (QX)	0.07	0.2	
Isopropanol, ppbv	<i>J (0.8)</i>	0.3	0.9	
m+p-Xylene, ppbv	0.1	0.04	0.1	0.6
Methyl Isobutyl Ketone (MIBK), ppbv	ND	0.06	0.2	
Methyl Methacrylate, ppbv	ND	0.05	0.2	
Methyl tert-Butyl Ether (MTBE), ppbv	ND	0.02	0.07	
Methylene Chloride, ppbv	0.2	0.02	0.07	0.2
Naphthalene, ppbv	ND (QX)	0.09	0.3	
n-Heptane, ppbv	<i>J (0.06)</i>	0.04	0.1	0.2
n-Hexane, ppbv	0.2	0.01	0.04	0.1
o-Xylene, ppbv	ND	0.08	0.2	0.2
p-Ethyltoluene, ppbv	<i>J (0.02)</i>	0.02	0.06	
Propylene, ppbv	0.1	0.04	0.1	0.5
Styrene, ppbv	<i>J (0.03)</i>	0.02	0.06	0.1
Tetrachloroethylene, ppbv	ND	0.02	0.06	
Tetrahydrofuran, ppbv	ND	0.03	0.1	<0.1
Toluene, ppbv	0.2	0.03	0.1	1.6
trans-1,2-Dichloroethylene, ppbv	ND	0.02	0.05	
trans-1,3-Dichloropropene, ppbv	ND	0.03	0.08	
Trichloroethylene, ppbv	ND	0.01	0.04	<0.2
Trichlorofluoromethane (Freon 11), ppbv	0.2	0.02	0.06	0.2



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

**MONITORING AND ANALYSIS**  
**REPORT OF LABORATORY ANALYSIS**

(Page 4 of 6)

**Laboratory No.** 2101922-01 - continued  
**Sample Description** 24 Hour, SILCO Canister SM-S1016, AA Asphalt. Northwood High School.  
**Sample Comments** Note TO-15 standards were expired at time of analysis.  
**Sample Date 01/15/2021** **Received Date 01/19/2021** **Analyzed Date 01/21/2021**

**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>
Trichlorotrifluoroethane (Freon 113), ppbv	0.08	0.01	0.04	0.1
Vinyl acetate, ppbv	ND	0.08	0.2	<0.1
Vinyl chloride, ppbv	ND	0.02	0.07	<0.1

\* J = Value is between method detection and reporting limits.

*EH = Estimated; Exceeds Upper Range, LJ = Identification of Analyte is Acceptable; Reported Value is an Estimate, QX = Does not meet QC criteria.*



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

**MONITORING AND ANALYSIS  
REPORT OF LABORATORY ANALYSIS**

(Page 5 of 6)

**Laboratory No.** 2101922-01 - continued  
**Sample Description** 24 Hour, SILCO Canister SM-S1016, AA Asphalt. Northwood High School.  
**Sample Comments** Note TO-15 standards were expired at time of analysis.  
**Sample Date 01/15/2021** **Received Date 01/19/2021** **Analyzed Date 01/22/2021**

---

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

**--TENTATIVELY IDENTIFIED COMPOUNDS--  
CONCENTRATIONS ARE APPROXIMATED**

<b><u>Analyte, Unit</u></b>	<b><u>Result</u></b>
No TICs Found, ppbv	0.0

\* 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 2101922-01

TO: SCAQMD LAB:  OTHER:

SOURCE NAME: AAA Asphalt I.D. No. \_\_\_\_\_

Source Address: 4515 Portola Pkwy City: Irvine

Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: 92620

Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_ Tel: \_\_\_\_\_

Analysis Requested by: Sumner Wilson Date: 01/16/21

Approved by: Jason Low Office: \_\_\_\_\_ Budget #: 44716

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

Suspected Violation Rule(s) \_\_\_\_\_ Other  near source monitoring

Sample Collected by: J Caldero Date: 01/16/21 Time: 0903 pst

**REQUESTED ANALYSIS:**

Location	Can#	Start day / time / duration	Start vac	End vac
Northwood High School	<u>BS127</u>	01/15/21 / 00:00 / 1440 min	-30" Hg	-3"Hg

*JC*  
*SM-51016*

Relinquished by	Received by	Firm/Agency	Date	Time
<u>J Caldero</u>	<u>shelf</u>	SCAQMD Lab	01/16/21	
<u>shelf</u>	<u>R. Lopez</u>	SCAQMD Lab	01/19/2021	11:10

Remarks:

SN #209 #3

AAA Asphalt Irvine: Northwood High School