



**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.** 2036601-01  
**Requested By** Sumner Wilson  
**Rule No.** NA  
**ST No.** NA  
**Report Created** 01/20/2021

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

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



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**Laboratory No.** 2036601-01  
**Sample Description** 24 Hour, SILCO Canister E3748, AAA Asphalt. AAA Asphalt Irvine: Northwood High School.  
**Sample Comments** Note TO-15 standards were expired at time of analysis.  
**Sample Date 12/29/2020** **Received Date 12/31/2020** **Analyzed Date 12/31/2020**

**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	0.07 (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	J (0.02)	0.01	0.04	
1,2-Dichloropropane, ppbv	ND	0.01	0.03	<0.1
1,3,5-Trimethylbenzene, ppbv	ND (QX)	0.03	0.1	0.1
1,3-Butadiene, ppbv	J (0.03)	0.03	0.08	<0.1
1,3-Dichlorobenzene, ppbv	ND	0.03	0.1	
1,4-Dichlorobenzene, ppbv	ND	0.04	0.1	
1,4-Dioxane, ppbv	ND (QX)	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	0.3	0.05	0.2	
Acetone, ppbv	3.3	0.3	0.9	7.7
Benzene, ppbv	0.1	0.01	0.03	0.6
Benzyl chloride, ppbv	ND	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	0.09	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	0.7	0.03	0.08	0.6



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**Laboratory No.** 2036601-01 - continued  
**Sample Description** 24 Hour, SILCO Canister E3748, AAA Asphalt. AAA Asphalt Irvine: Northwood High School.  
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<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	J (0.02)	0.02	0.06	<0.1
Ethanol, ppbv	40 (LJ)	0.3	0.9	7.3
Ethyl Acetate, ppbv	ND	0.08	0.2	<0.1
Ethylbenzene, ppbv	J (0.05)	0.02	0.07	0.2
Ethylene oxide, ppbv	0.07 (LJ)	0.02	0.06	
Hexachloro-1,3-butadiene, ppbv	ND (QX)	0.07	0.2	
Isopropanol, ppbv	ND (QX)	0.3	0.9	
m+p-Xylene, ppbv	0.1 (LJ)	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	0.5	0.02	0.07	0.2
Naphthalene, ppbv	ND (QX)	0.09	0.3	
n-Heptane, ppbv	J (0.04)	0.04	0.1	0.2
n-Hexane, ppbv	0.08 (LJ)	0.01	0.04	0.1
o-Xylene, ppbv	ND	0.08	0.2	0.2
p-Ethyltoluene, ppbv	J (0.02)	0.02	0.06	
Propylene, ppbv	0.2	0.04	0.1	0.5
Styrene, ppbv	0.09	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



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**Laboratory No.** 2036601-01 - continued  
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**Sample Date 12/29/2020** **Received Date 12/31/2020** **Analyzed Date 12/31/2020**

**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	<i>J (0.08)</i>	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.

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



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**Sample Date 12/29/2020** **Received Date 12/31/2020** **Analyzed Date 01/08/2021**

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

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

<u>Analyte, Unit</u>	<u>Result</u>
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 2036601

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: 12/30/20  
 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 Rothschild /E Sanchez Date: 12/30/20 Time: 0815 pst

**REQUESTED ANALYSIS:**

Location	Can#	Start day / time / duration	Start vac	End vac
Northwood High School	E3748	12/29/20 / 00:00 / 1440 min	-30" Hg	- 5"Hg

Relinquished by	Received by	Firm/Agency	Date	Time
<u>James Rothschild</u>	<u>shelf</u>	SCAQMD Lab	12/30/20	9:55
<u>shelf</u>	<u>R. Lopez</u>	SCAQMD Lab	12/31/2020	10:58

Remarks:  
Sn172

AAA Asphalt Irvine: Northwood High School