



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. 2035902-01
Requested By Sumner Wilson
Rule No. NA
ST No. NA
Report Created 01/06/2021

Sampling Location

Northwood High School
4515 Portola Pkwy
Irvine, CA

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. 2035902-01
Sample Description 24 Hour, SILCO Canister E3684, AAA Asphalt. AAA Asphalt Irvine: Northwood High School.
Sample Comments Note secondary TO-15 calibration standard was expired at time of analysis.
Sample Date 12/23/2020 **Received Date 12/24/2020** **Analyzed Date 12/29/2020**

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	0.08 (LJ)	0.02	0.05	0.1
1,2-Dibromoethane, ppbv	ND	0.02	0.08	
1,2-Dichlorobenzene, ppbv	ND (QX)	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	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	ND	0.04	0.1	<0.1
2-Butanone (MEK), ppbv	0.4	0.06	0.2	0.3
2-Hexanone (MBK), ppbv	ND	0.05	0.1	
2-Propenal, ppbv	0.6	0.05	0.2	
Acetone, ppbv	8.6 (EH)	0.3	0.9	7.7
Benzene, ppbv	0.2	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 (QX)	0.04	0.1	<0.1
Bromomethane, ppbv	ND	0.03	0.08	<0.1
Carbon disulfide, ppbv	J (0.05)	0.04	0.1	<0.1
Carbon Tetrachloride, ppbv	0.08	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	0.5	0.03	0.08	0.6



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Laboratory No. 2035902-01 - continued
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Sample Date 12/23/2020 **Received Date 12/24/2020** **Analyzed Date 12/29/2020**

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>
cis-1,2-Dichloroethylene, ppbv	ND	0.01	0.04	
cis-1,3-Dichloropropene, ppbv	ND	0.03	0.1	
Cyclohexane, ppbv	0.08	0.01	0.03	0.1
Dibromochloromethane, ppbv	ND	0.03	0.08	<0.1
Dichlorodifluoromethane (Freon 12), ppbv	0.3	0.03	0.09	0.5
Dichlorotetrafluoroethane (Freon 114), ppbv	ND	0.02	0.06	<0.1
Ethanol, ppbv	15 (LJ)	0.3	0.9	7.3
Ethyl Acetate, ppbv	ND	0.08	0.2	<0.1
Ethylbenzene, ppbv	0.08 (LJ)	0.02	0.07	0.2
Ethylene oxide, ppbv	ND	0.02	0.06	
Hexachloro-1,3-butadiene, ppbv	ND (QX)	0.07	0.2	
Isopropanol, ppbv	J (0.5)	0.3	0.9	
m+p-Xylene, ppbv	0.2	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	0.6	0.02	0.07	0.2
Naphthalene, ppbv	ND (QX)	0.09	0.3	
n-Heptane, ppbv	J (0.08)	0.04	0.1	0.2
n-Hexane, ppbv	0.09	0.01	0.04	0.1
o-Xylene, ppbv	ND	0.08	0.2	0.2
p-Ethyltoluene, ppbv	J (0.04)	0.02	0.06	
Propylene, ppbv	0.2	0.04	0.1	0.5
Styrene, ppbv	0.1	0.02	0.06	0.1
Tetrachloroethylene, ppbv	ND	0.02	0.06	
Tetrahydrofuran, ppbv	ND (QX)	0.03	0.1	<0.1
Toluene, ppbv	0.4	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. 2035902-01 - continued
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Sample Date 12/23/2020 **Received Date 12/24/2020** **Analyzed Date 12/29/2020**

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	0.07	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.



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Laboratory No. 2035902-01 - continued
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Sample Date 12/23/2020 **Received Date 12/24/2020** **Analyzed Date 12/31/2020**

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 2035902

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: 12/24/20

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: 12/24/20 Time: 0745 pst

REQUESTED ANALYSIS:

Location	Can#	Start day / time / duration	Start vac	End vac
Northwood High School	E3684	12/23/20 / 00:00 / 1440 min	-30" Hg	- 1"Hg

Relinquished by	Received by	Firm/Agency	Date	Time
<u>J Rothschild</u>	<u>shelf</u>	SCAQMD Lab	12/24/20	9:35
<u>Shelf</u>	<u>R. Lopez</u>	SCAQMD Lab	12/24/2020	9:45

Remarks:
Sn172

AAA Asphalt Irvine: Northwood High School