

MONITORING AND ANALYSIS REPORT OF LABORATORY ANALYSIS

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N	_	Operations Manager	Laboratory No.	2103514-01
S	Science &	Technology Advancement	Requested By	Sumner Wilson
			Rule No.	NA
Samp	ling Locat	ion	ST No.	NA
4	Northwood 1515 Portol rvine, CA	High School a Pkwy	Report Created	02/11/2021
			Cs) in Ambient Air by EPA	A TO-15 (GC/MS) 5 (GC/MS) - Tentatively
	wed By:	Stephen Dutz Principal A.Q. Chemist Laboratory Services Aaron Katzenstein, Ph.D. Senior Manager		Reviewed: Approved:

Laboratory Services (909) 396-2219



MONITORING AND ANALYSIS REPORT OF LABORATORY ANALYSIS

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Laboratory No. 2103514-01

Sample Description 24 Hour, SILCO Canister E0749, AA Asphalt Irvine: Northwood High School.

Sample Comments Note secondary TO-15 calibration standard was expired at time of analysis.

Sample Date 02/03/2021 Received Date 02/04/2021 Analyzed Date 02/04/2021

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

<u>Analyte, Unit</u>	Result	$\underline{\mathbf{MDL}}$	<u>MRL</u>	Ambient Avg
1,1,1-Trichloroethane, ppbv	ND	0.009	0.03	0.1
1,1,2,2-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	0.08	0.2	< 0.1
1,2,4-Trimethylbenzene, ppbv	0.06 (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	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 (QX)	0.04	0.1	< 0.1
2-Butanone (MEK), ppbv	0.2	0.06	0.2	0.3
2-Hexanone (MBK), ppbv	ND	0.05	0.1	
2-Propenal, ppbv	J (0.07)	0.05	0.2	
Acetone, ppbv	3.1	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	0.08	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	0.4	0.03	0.08	0.6



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Laboratory No. 2103514-01 - continued

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Sample Date 02/03/2021 Received Date 02/04/2021 Analyzed Date 02/04/2021

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

Analyte, Unit	Result	MDL	<u>MRL</u>	Ambient Avg
cis-1,2-Dichloroethylene, ppbv	ND	0.01	0.04	
cis-1,3-Dichloropropene, ppbv	ND	0.03	0.1	
Cyclohexane, ppbv	0.03	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	4.5 (LJ)	0.3	0.9	7.3
Ethyl Acetate, ppbv	ND (QX)	0.08	0.2	< 0.1
Ethylbenzene, ppbv	J(0.05)	0.02	0.07	0.2
Ethylene oxide, ppbv	ND	0.02	0.06	
Hexachloro-1,3-butadiene, ppbv	ND	0.07	0.2	
Isopropanol, ppbv	J (0.3)	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	0.1	0.02	0.07	0.2
n-Heptane, ppbv	J(0.04)	0.04	0.1	0.2
n-Hexane, ppbv	0.07	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	0.1	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	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
Trichlorotrifluoroethane (Freon 113), ppbv	0.05	0.01	0.04	0.1



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Laboratory No. 2103514-01 - continued

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Sample Date 02/03/2021 Received Date 02/04/2021 Analyzed Date 02/04/2021

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

Analyte, Unit	Result	MDL	<u>MRL</u>	Ambient Avg	
Vinyl acetate, ppbv	ND	0.08	0.2	< 0.1	
Vinyl chloride, ppbv	ND	0.02	0.07	< 0.1	



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Laboratory No. 2103514-01 - continued

Sample Description 24 Hour, SILCO Canister E0749, AA Asphalt Irvine: Northwood High School.

Sample Comments Note secondary TO-15 calibration standard was expired at time of analysis.

Sample Date 02/03/2021 Received Date 02/04/2021 Analyzed Date 02/05/2021

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

--TENTATIVELY IDENTIFIED COMPOUNDS--CONCENTRATIONS ARE APPROXIMATED

Analyte, Unit
No TICs Found, ppbv

0.0



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DEFINITIONS

Item	Definition
MDL	Method Detection Limit
MRL	Method Reporting Limit
ND	Non-detect; Value is below MDL.
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.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SAMPLE ANALYSIS REQUEST

☐ DISTRICT INFORMATION
☐ INVOICE SOURCE
☐ LAP AUDIT

LABORATORY NO 210 3514

			,		
OURCE NAME: AA			I.D. No		
ource Address: 4515 P	ortola Pkwy		City:	Irvine	
failing Address:		City	y:	Zip:	92620
ontact Person:					
nalysis Requested by:	Sumner V	Vilson	Date:	02/04/21	, , , , , , , , , , , , , , , , , , ,
pproved by: Ja	ison Low Of	ffice:	E	Budget #:	44716
EASON REQUESTED:	Court/Hearing Board	Permit Pe	ending [Hazardous/Toxi	c Spill
Suspected Violation			America		
ample Collected by:	J Caldero	Date:	02/04/21	Time:	0950 pst
	REQUEST	TED ANALYSI	IS:		
Location	Can#	Start day /	time / duration	Start vac	End vac
Northwood High Scho	ool E0749	02/03/21 / 0	0:00 / 1438 min	-30" Hg	-5"Hg
	Received	by	Firm/Agency	Date	Time
Relinquished by J Caldero	Received	by	Firm/Agency SCAQMD Lab		M:30
Relinquished by		by		02/04/21	M:30
Relinquished by J Caldero	shelf	by	SCAQMD Lab	02/04/21	M:30
Relinquished by J Caldero Shulf	shelf	by	SCAQMD Lab	02/04/21	M:30
Relinquished by J Caldero	shelf	by	SCAQMD Lab	02/04/21	M:30
Relinquished by J Caldero Shulf	shelf R. Loger	by	SCAQMD Lab	02/04/21	M:30
Relinquished by J Caldero Shulf emarks:	shelf R. Loger	by	SCAQMD Lab	02/04/21	M:30