

## MONITORING AND ANALYSIS REPORT OF LABORATORY ANALYSIS

			(Page 1 of 7)	
To:	Monitoring	g Operations Manager	Laboratory No.	2105403-01 Sumner Wilson
	Science &	Technology Advancement	Requested By	
			Rule No.	NA
Sam	pling Locat		ST No.	NA
	4515 Porto	High School la Pkwy	Report Created	02/26/2021
	Irvine, CA			
	AN	NALYTICAL WORK PERFORME	ED, METHOD OF ANALY	SIS, AND RESULTS
		Volatile Organic Compounds (VO	Cs) in Amhient Air hy EP	A TO-15 (GC/MS)
	Volati	le Organic Compounds (VOCs) in	, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·
	Voiati		Identified	5 (Genus) - Tentatively
		See attached resu	lts and sample information	1.
Rev	iewed By:		Date	Reviewed:
	v	Stephen Dutz		
		Principal A.Q. Chemist		
		Laboratory Services		
Δnn	oroved By:		Data	Approved:
ռեր	noveu by.	Aaron Katzenstein, Ph.D.	Date	
		Senior Manager		

Laboratory Services (909) 396-2219



### MONITORING AND ANALYSIS REPORT OF LABORATORY ANALYSIS

(Page 2 of 7)

**Laboratory No.** 2105403-01

Sample Description 24 Hour, SILCO Canister 53453, AA Asphalt Irvine: Northwood High School.

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

Sample Date 02/21/2021 Received Date 02/23/2021 Analyzed Date 02/23/2021

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

<u>Analyte, Unit</u>	<u>Result</u>	<b>MDL</b>	<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 (QX)	0.08	0.2	< 0.1
1,2,4-Trimethylbenzene, ppbv	0.1 (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	J (0.04)	0.03	0.08	< 0.1
1,3-Dichlorobenzene, ppbv	ND (QX)	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	ВН	0.06	0.2	0.3
2-Hexanone (MBK), ppbv	0.1	0.05	0.1	
2-Propenal, ppbv	J (0.08)	0.05	0.2	
Acetone, ppbv	3.1	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	J (0.02)	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	0.07	0.008	0.02	< 0.1
Chloromethane, ppbv	0.8	0.03	0.08	0.6



### MONITORING AND ANALYSIS REPORT OF LABORATORY ANALYSIS

(Page 3 of 7)

Laboratory No. 2105403-01 - continued

Sample Description 24 Hour, SILCO Canister 53453, AA Asphalt Irvine: Northwood High School.

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

Sample Date 02/21/2021 Received Date 02/23/2021 Analyzed Date 02/23/2021

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

Analyte, Unit	Result	<b>MDL</b>	<u>MRL</u>	<b>Ambient Avg</b>
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	0.6	0.03	0.09	0.5
Dichlorotetrafluoroethane (Freon 114), ppbv	J (0.02)	0.02	0.06	<0.1
Ethanol, ppbv	12 (LJ)	0.3	0.9	7.3
Ethyl Acetate, ppbv	ND (QX)	0.08	0.2	< 0.1
Ethylbenzene, ppbv	J(0.06)	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	2.1	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	0.1	0.02	0.07	0.2
n-Heptane, ppbv	J (0.08)	0.04	0.1	0.2
n-Hexane, ppbv	0.1	0.01	0.04	0.1
o-Xylene, ppbv	J (0.09)	0.08	0.2	0.2
p-Ethyltoluene, ppbv	J (0.03)	0.02	0.06	
Propylene, ppbv	0.4	0.04	0.1	0.5
Styrene, ppbv	J(0.04)	0.02	0.06	0.1
Tetrachloroethylene, ppbv	ND	0.02	0.06	
Tetrahydrofuran, ppbv	ND	0.03	0.1	< 0.1
Toluene, ppbv	0.4	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	0.3	0.02	0.06	0.2
Trichlorotrifluoroethane (Freon 113), ppbv	0.08	0.01	0.04	0.1



### MONITORING AND ANALYSIS REPORT OF LABORATORY ANALYSIS

(Page 4 of 7)

Laboratory No. 2105403-01 - continued

Sample Description 24 Hour, SILCO Canister 53453, AA Asphalt Irvine: Northwood High School.

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

Sample Date 02/21/2021 Received Date 02/23/2021 Analyzed Date 02/23/2021

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

Analyte, Unit	Result	<b>MDL</b>	<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	



#### MONITORING AND ANALYSIS REPORT OF LABORATORY ANALYSIS

(Page 5 of 7)

Laboratory No. 2105403-01 - continued

Sample Description 24 Hour, SILCO Canister 53453, AA Asphalt Irvine: Northwood High School.

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

Sample Date 02/21/2021 Received Date 02/23/2021 Analyzed Date 02/25/2021

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



## MONITORING AND ANALYSIS REPORT OF LABORATORY ANALYSIS

(Page 6 of 7)

**Laboratory No.** 2105403-01

#### **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.
ВН	Interference/co-elution/misidentification
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

X	DISTRICT INFORMATION
	INVOICE SOURCE
	LAP AUDIT

LABORATORY NO 2105403

TO: SCAQMD LAB:	OTHER:						
SOURCE NAME: AAA	A Asphalt		I.D. No	•			
Source Address: 4515 Portola Pkwy City: Irvine							
Mailing Address:							
		Title:					
Analysis Requested by: _	Sumner W	Vilson	Date:	02/22/21			
Approved by:Jas	son Low Of	ffice:	B	Budget #:	44716		
REASON REQUESTED: Court/Hearing Board Permit Pending Hazardous/Toxic Spill Suspected Violation Rule(s) Other Other near source monitoring							
Sample Collected by:	J Caldero	Date:	02/22/21	Time:	0946 pst		
	REQUEST	TED ANALYSIS:					
Location	Can#	Can# Start day / time / duration		Start vac	End vac		
Northwood High Scho	ol 53453	02/21/21 / 00:0	0 / 1438 min	-30" Hg	-3"Hg		
Relinquished by Received by Firm/Agency Date Time							
J Caldero	shelf	SC	CAQMD Lab	02/22/21	1170		
Shelf 2 lagez supposed 02/23/24 (03/							
Remarks: SN #585 Orfice 274 box #							
AAA Asphalt Irvine: Northwood High School							