



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

**MONITORING AND ANALYSIS
REPORT OF LABORATORY ANALYSIS**

(Page 1 of 7)

To: Sumner Wilson
Monitoring Operations Manager
Science & Technology Advancement

Laboratory No. 2110303-01
Requested By Sumner Wilson

Rule No. NA

Sampling Location

Eastwood Elementary School
99 Meander
Irvine, CA 92620

ST No. NA

Report Created 04/29/2021

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: _____



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Laboratory No. 2110303-01
Sample Description 24 Hour, SILCO Canister E3748, AA Asphalt Irvine: Eastwood Elementary School
Sample Date 04/10/2021 **Received Date 04/13/2021** **Analyzed Date 04/15/2021**

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 |
| 1,1,2,2-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 | 0.09 (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 | J (0.03) | 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 | 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 (0.1) | 0.05 | 0.2 | |
| Acetone, ppbv | 4.1 | 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 | J (0.01) | 0.01 | 0.04 | <0.1 |
| Bromoform, ppbv | ND | 0.04 | 0.1 | <0.1 |
| Bromomethane, ppbv | ND (QX) | 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 | 0.05 | 0.008 | 0.02 | <0.1 |
| Chloromethane, ppbv | 0.7 | 0.03 | 0.08 | 0.6 |
| cis-1,2-Dichloroethylene, ppbv | ND | 0.01 | 0.04 | |



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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-1,3-Dichloropropene, ppbv | ND | 0.03 | 0.1 | |
| Cyclohexane, ppbv | 0.04 (LJ) | 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 | 2.5 (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 | J (0.05) | 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 (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 | 0.1 | 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 (0.03) | 0.02 | 0.06 | |
| Propylene, ppbv | 0.1 | 0.04 | 0.1 | 0.5 |
| Styrene, ppbv | J (0.03) | 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 | 0.3 | 0.02 | 0.06 | 0.2 |
| Trichlorotrifluoroethane (Freon 113), ppbv | 0.08 | 0.01 | 0.04 | 0.1 |
| Vinyl acetate, ppbv | 0.2 | 0.08 | 0.2 | <0.1 |
| Vinyl chloride, ppbv | ND | 0.02 | 0.07 | <0.1 |



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--TENTATIVELY IDENTIFIED COMPOUNDS--
CONCENTRATIONS ARE APPROXIMATED

Analyte, Unit

Result

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

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
SAMPLE ANALYSIS REQUEST**

- DISTRICT INFORMATION
- INVOICE SOURCE
- LAP AUDIT

LABORATORY NO 2110303

TO: SCAQMD LAB: OTHER: _____
 SOURCE NAME: AAA Asphalt I.D. No. _____
 Source Address: 99 Meander City: Irvine
 Mailing Address: _____ City: _____ Zip: 92620
 Contact Person: _____ Title: _____ Tel: _____

Analysis Requested by: Sumner Wilson Date: 04/12/21
 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: 04/12/21 Time: 0941 pst

REQUESTED ANALYSIS:

| Location | Can# | Start day / time / duration | Start vac | End vac |
|----------------------------|-------|-----------------------------|-----------|---------|
| Eastwood Elementary School | E3748 | 04/10/21 / 00:00 / 1438 min | -30" Hg | -2"Hg |

| Relinquished by | Received by | Firm/Agency | Date | Time |
|-----------------|-------------|-------------|------------|-------|
| J Caldero | shelf | SCAQMD Lab | 04/12/21 | 10:10 |
| Shelf | R Lopez | SCAQMD Lab | 04/13/2021 | 10 11 |

Remarks:
 Sn 209 orifice 399 box#4

AAA Asphalt Irvine: Eastwood Elementary School