Atmospheric Analysis & Consulting, Inc.

CLIENT : Sacramento Metropolitan AQMD
PROJECT NAME : AB617 VOC Analysis
PROJECT NO. : Contract 2023-00000016
AAC PROJECT NO. : 231910 Rev 1
REPORT DATE : 02/09/2024

On September 25, 2023, Atmospheric Analysis & Consulting, Inc. received four (4) 6.0-Liter Silonite Canisters for Volatile Organic Compounds and Tentatively Identified Compounds (TICs) analysis by EPA Method TO-15. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

Client ID	Lab ID	Return Pressure (mmHga)
617Fern 001828	231910-49086	1303.5
617Fern 001746	231910-49087	1294.0
617Fern 001800	231910-49088	1288.0
617Fern 001786	231910-49089	1272.5

This analysis is accredited under the laboratory's ISO/IEC 17025:2017 accreditation issued by the ANSI National Accreditation Board. Refer to certificate and scope of accreditation AT-1908. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. Sample "617Fern 001828" (49086) was analyzed after the recommended holding time of 30 days for analysis from a Silonite canister had passed. No other problems were encountered during receiving, preparation, and/or analysis of these samples.

The Technical Director or his designee, as verified by the following signature, has authorized release of the data contained in this hardcopy report.

If you have any questions or require further explanation of data results, please contact the undersigned.

Sucha Parmar, Ph.D.
Technical Director

Amended Report 231910 Rev 1 supersedes Original Report 231910. The amended report was issued on 02/09/2024. Per client request, can numbers were added to the sample names.

This report consists of 19 pages.

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231910 Rev 1
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 09/25/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001828			Sample Quantitation Limit (SQL) (PQLxDF's)	617Fern 001746			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231910-49086				231910-49087				
Date Sampled	08/28/2023				09/03/2023				
Date Analyzed	09/29/2023				09/29/2023				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Chlorodifluoromethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Propene	0.34	J	1	1.00	0.14	J	1	1.00	1.00
Dichlorodifluoromethane	0.42	J	1	0.50	0.43	J	1	0.50	0.50
Dimethyl Ether	<SDL	ND	1	0.50	0.22	J	1	0.50	0.50
Chloromethane	0.58		1	0.50	0.62		1	0.50	0.50
Dichlorotetrafluoroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Vinyl Chloride	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Acetaldehyde	10.9		1	5.00	9.48		1	5.00	5.00
Methanol	15.6		1	5.00	12.6		1	5.00	5.00
1,3-Butadiene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Bromomethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Chloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Dichlorofluoromethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Ethanol	6.69		1	2.00	4.91		1	2.00	2.00
Vinyl Bromide	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Acrolein	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Acetone	8.49		1	2.00	5.53		1	2.00	2.00
Trichlorofluoromethane	0.22	J	1	0.50	0.22	J	1	0.50	0.50
2-Propanol (IPA)	0.92	J	1	2.00	0.77	J	1	2.00	2.00
Acrylonitrile	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1-Dichloroethene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Methylene Chloride (DCM)	0.19	J	1	1.00	0.19	J	1	1.00	1.00
TertButanol (TBA)	<SDL	ND	1	0.50	0.28	J	1	0.50	0.50
Allyl Chloride	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Carbon Disulfide	0.23	J	1	2.00	0.13	J	1	2.00	2.00
Trichlorotrifluoroethane	0.08	J	1	0.50	0.08	J	1	0.50	0.50
trans-1,2-Dichloroethene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1-Dichloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Methyl Tert Butyl Ether (MTBE)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Vinyl Acetate	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
2-Butanone (MEK)	0.87	J	1	1.00	0.64	J	1	1.00	1.00
cis-1,2-Dichloroethene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Hexane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Chloroform	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Ethyl Acetate	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Tetrahydrofuran	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2-Dichloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1,1-Trichloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Benzene	0.18	J	1	0.50	0.10	J	1	0.50	0.50
Carbon Tetrachloride	0.08	J	1	0.50	0.08	J	1	0.50	0.50
Cyclohexane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50

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Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231910 Rev 1
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 09/25/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001828			Sample Quantitation Limit (SQL) (PQLxDF's)	617Fern 001746			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231910-49086				231910-49087				
Date Sampled	08/28/2023				09/03/2023				
Date Analyzed	09/29/2023				09/29/2023				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
1,2-Dichloropropane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Bromodichloromethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,4-Dioxane	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Trichloroethene (TCE)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
2,2,4-Trimethylpentane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Methyl Methacrylate	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Heptane	0.07	J	1	0.50	<SDL	ND	1	0.50	0.50
cis-1,3-Dichloropropene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
4-Methyl-2-pentanone (MiBK)	<SDL	ND	1	0.50	0.06	J	1	0.50	0.50
trans-1,3-Dichloropropene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1,2-Trichloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Toluene	0.43	J	1	0.50	0.25	J	1	0.50	0.50
2-Hexanone (MBK)	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Dibromochloromethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2-Dibromoethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Tetrachloroethene (PCE)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Chlorobenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Ethylbenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
m & p-Xylene	0.09	J	1	1.00	0.06	J	1	1.00	1.00
Bromoform	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Styrene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1,2,2-Tetrachloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
o-Xylene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2,3-Trichloropropane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Isopropylbenzene (Cumene)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
α-Pinene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
2-Chlorotoluene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
n-Propylbenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
4-Ethyltoluene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,3,5-Trimethylbenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
β-Pinene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2,4-Trimethylbenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Benzyl Chloride (a-Chlorotoluene)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,3-Dichlorobenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,4-Dichlorobenzene	<SDL	ND	1	0.50	0.06	J	1	0.50	0.50
Sec-ButylBenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2-Dichlorobenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
n-ButylBenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2-Dibromo-3-Chloropropane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2,4-Trichlorobenzene	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Naphthalene	<SDL	ND	1	2.00	<SDL	ND	1	2.00	2.00
Hexachlorobutadiene	<SDL	ND	1	2.00	<SDL	ND	1	2.00	2.00
BFB-Surrogate Std. % Recovery		95%				96%			70-130%

SDL - Sample Detection Limit
ND - Not Detected
J - Estimated value between the SDL and the SQL

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231910 Rev 1
MATRIX : AIR
UNITS : µg/m³

DATE RECEIVED : 09/25/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001828			Sample Quantitation Limit (SQL) (PQLxDF's)	617Fern 001746			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231910-49086				231910-49087				
Date Sampled	08/28/2023				09/03/2023				
Date Analyzed	09/29/2023				09/29/2023				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Chlorodifluoromethane	<SDL	ND	1	1.77	<SDL	ND	1	1.77	1.8
Propene	0.59	J	1	1.72	0.24	J	1	1.72	1.7
Dichlorodifluoromethane	2.08	J	1	2.47	2.13	J	1	2.47	2.5
Dimethyl Ether	<SDL	ND	1	0.94	0.41	J	1	0.94	0.9
Chloromethane	1.20		1	1.03	1.28		1	1.03	1.0
Dichlorotetrafluoroethane	<SDL	ND	1	3.50	<SDL	ND	1	3.50	3.5
Vinyl Chloride	<SDL	ND	1	1.28	<SDL	ND	1	1.28	1.3
Acetaldehyde	19.6		1	9.01	17.1		1	9.01	9.0
Methanol	20.5		1	6.55	16.5		1	6.55	6.6
1,3-Butadiene	<SDL	ND	1	1.11	<SDL	ND	1	1.11	1.1
Bromomethane	<SDL	ND	1	1.94	<SDL	ND	1	1.94	1.9
Chloroethane	<SDL	ND	1	1.32	<SDL	ND	1	1.32	1.3
Dichlorofluoromethane	<SDL	ND	1	2.10	<SDL	ND	1	2.10	2.1
Ethanol	12.6		1	3.77	9.25		1	3.77	3.8
Vinyl Bromide	<SDL	ND	1	2.19	<SDL	ND	1	2.19	2.2
Acrolein	<SDL	ND	1	2.29	<SDL	ND	1	2.29	2.3
Acetone	20.2		1	4.75	13.1		1	4.75	4.8
Trichlorofluoromethane	1.24	J	1	2.81	1.24	J	1	2.81	2.8
2-Propanol (IPA)	2.26	J	1	4.92	1.89	J	1	4.92	4.9
Acrylonitrile	<SDL	ND	1	1.09	<SDL	ND	1	1.09	1.1
1,1-Dichloroethene	<SDL	ND	1	1.98	<SDL	ND	1	1.98	2.0
Methylene Chloride (DCM)	0.66	J	1	3.47	0.66	J	1	3.47	3.5
TertButanol (TBA)	<SDL	ND	1	1.52	0.85	J	1	1.52	1.5
Allyl Chloride	<SDL	ND	1	3.13	<SDL	ND	1	3.13	3.1
Carbon Disulfide	0.72	J	1	6.23	0.40	J	1	6.23	6.2
Trichlorotrifluoroethane	0.61	J	1	3.83	0.61	J	1	3.83	3.8
trans-1,2-Dichloroethene	<SDL	ND	1	1.98	<SDL	ND	1	1.98	2.0
1,1-Dichloroethane	<SDL	ND	1	2.02	<SDL	ND	1	2.02	2.0
Methyl Tert Butyl Ether (MTBE)	<SDL	ND	1	1.80	<SDL	ND	1	1.80	1.8
Vinyl Acetate	<SDL	ND	1	3.52	<SDL	ND	1	3.52	3.5
2-Butanone (MEK)	2.57	J	1	2.95	1.89	J	1	2.95	2.9
cis-1,2-Dichloroethene	<SDL	ND	1	1.98	<SDL	ND	1	1.98	2.0
Hexane	<SDL	ND	1	1.76	<SDL	ND	1	1.76	1.8
Chloroform	<SDL	ND	1	2.44	<SDL	ND	1	2.44	2.4
Ethyl Acetate	<SDL	ND	1	1.80	<SDL	ND	1	1.80	1.8
Tetrahydrofuran	<SDL	ND	1	1.47	<SDL	ND	1	1.47	1.5
1,2-Dichloroethane	<SDL	ND	1	2.02	<SDL	ND	1	2.02	2.0
1,1,1-Trichloroethane	<SDL	ND	1	2.73	<SDL	ND	1	2.73	2.7
Benzene	0.58	J	1	1.60	0.32	J	1	1.60	1.6
Carbon Tetrachloride	0.50	J	1	3.15	0.50	J	1	3.15	3.1
Cyclohexane	<SDL	ND	1	1.72	<SDL	ND	1	1.72	1.7

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Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231910 Rev 1
MATRIX : AIR
UNITS : µg/m³

DATE RECEIVED : 09/25/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001828			Sample Quantitation Limit (SQL) (PQLxDF's)	617Fern 001746			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231910-49086				231910-49087				
Date Sampled	08/28/2023				09/03/2023				
Date Analyzed	09/29/2023				09/29/2023				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
1,2-Dichloropropane	<SDL	ND	1	2.31	<SDL	ND	1	2.31	2.3
Bromodichloromethane	<SDL	ND	1	3.35	<SDL	ND	1	3.35	3.4
1,4-Dioxane	<SDL	ND	1	3.60	<SDL	ND	1	3.60	3.6
Trichloroethene (TCE)	<SDL	ND	1	2.69	<SDL	ND	1	2.69	2.7
2,2,4-Trimethylpentane	<SDL	ND	1	2.34	<SDL	ND	1	2.34	2.3
Methyl Methacrylate	<SDL	ND	1	2.05	<SDL	ND	1	2.05	2.0
Heptane	0.29	J	1	2.05	<SDL	ND	1	2.05	2.0
cis-1,3-Dichloropropene	<SDL	ND	1	2.27	<SDL	ND	1	2.27	2.3
4-Methyl-2-pentanone (MiBK)	<SDL	ND	1	2.05	0.25	J	1	2.05	2.0
trans-1,3-Dichloropropene	<SDL	ND	1	2.27	<SDL	ND	1	2.27	2.3
1,1,2-Trichloroethane	<SDL	ND	1	2.73	<SDL	ND	1	2.73	2.7
Toluene	1.62	J	1	1.88	0.94	J	1	1.88	1.9
2-Hexanone (MBK)	<SDL	ND	1	4.10	<SDL	ND	1	4.10	4.1
Dibromochloromethane	<SDL	ND	1	4.26	<SDL	ND	1	4.26	4.3
1,2-Dibromoethane	<SDL	ND	1	3.84	<SDL	ND	1	3.84	3.8
Tetrachloroethene (PCE)	<SDL	ND	1	3.39	<SDL	ND	1	3.39	3.4
Chlorobenzene	<SDL	ND	1	2.30	<SDL	ND	1	2.30	2.3
Ethylbenzene	<SDL	ND	1	2.17	<SDL	ND	1	2.17	2.2
m & p-Xylene	0.39	J	1	4.34	0.26	J	1	4.34	4.3
Bromoform	<SDL	ND	1	5.17	<SDL	ND	1	5.17	5.2
Styrene	<SDL	ND	1	2.13	<SDL	ND	1	2.13	2.1
1,1,2,2-Tetrachloroethane	<SDL	ND	1	3.43	<SDL	ND	1	3.43	3.4
o-Xylene	<SDL	ND	1	2.17	<SDL	ND	1	2.17	2.2
1,2,3-Trichloropropane	<SDL	ND	1	3.01	<SDL	ND	1	3.01	3.0
Isopropylbenzene (Cumene)	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
α-Pinene	<SDL	ND	1	2.79	<SDL	ND	1	2.79	2.8
2-Chlorotoluene	<SDL	ND	1	2.59	<SDL	ND	1	2.59	2.6
n-Propylbenzene	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
4-Ethyltoluene	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
1,3,5-Trimethylbenzene	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
β-Pinene	<SDL	ND	1	2.79	<SDL	ND	1	2.79	2.8
1,2,4-Trimethylbenzene	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
Benzyl Chloride (a-Chlorotoluene)	<SDL	ND	1	2.59	<SDL	ND	1	2.59	2.6
1,3-Dichlorobenzene	<SDL	ND	1	3.01	<SDL	ND	1	3.01	3.0
1,4-Dichlorobenzene	<SDL	ND	1	3.01	0.36	J	1	3.01	3.0
Sec-ButylBenzene	<SDL	ND	1	2.74	<SDL	ND	1	2.74	2.7
1,2-Dichlorobenzene	<SDL	ND	1	3.01	<SDL	ND	1	3.01	3.0
n-ButylBenzene	<SDL	ND	1	2.74	<SDL	ND	1	2.74	2.7
1,2-Dibromo-3-Chloropropane	<SDL	ND	1	4.83	<SDL	ND	1	4.83	4.8
1,2,4-Trichlorobenzene	<SDL	ND	1	7.42	<SDL	ND	1	7.42	7.4
Naphthalene	<SDL	ND	1	10.5	<SDL	ND	1	10.5	10.5
Hexachlorobutadiene	<SDL	ND	1	21.3	<SDL	ND	1	21.3	21.3
BFB-Surrogate Std. % Recovery		95%				96%			70-130%

SDL - Sample Detection Limit
ND - Not Detected
J - Estimated value between the SDL and the SQL

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Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231910 Rev 1
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 09/25/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001800			Sample Quantitation Limit (SQL) (PQLxDF's)	617Fern 001786			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231910-49088				231910-49089				
Date Sampled	09/09/2023				09/15/2023				
Date Analyzed	09/29/2023				09/29/2023				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Chlorodifluoromethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Propene	0.21	J	1	1.00	0.20	J	1	1.00	1.00
Dichlorodifluoromethane	0.43	J	1	0.50	0.41	J	1	0.50	0.50
Dimethyl Ether	<SDL	ND	1	0.50	0.19	J	1	0.50	0.50
Chloromethane	0.64		1	0.50	0.70		1	0.50	0.50
Dichlorotetrafluoroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Vinyl Chloride	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Acetaldehyde	5.61		1	5.00	14.4		1	5.00	5.00
Methanol	9.00		1	5.00	12.4		1	5.00	5.00
1,3-Butadiene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Bromomethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Chloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Dichlorofluoromethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Ethanol	5.30		1	2.00	5.55		1	2.00	2.00
Vinyl Bromide	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Acrolein	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Acetone	5.57		1	2.00	7.54		1	2.00	2.00
Trichlorofluoromethane	0.23	J	1	0.50	0.24	J	1	0.50	0.50
2-Propanol (IPA)	0.51	J	1	2.00	0.65	J	1	2.00	2.00
Acrylonitrile	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1-Dichloroethene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Methylene Chloride (DCM)	0.21	J	1	1.00	0.17	J	1	1.00	1.00
TertButanol (TBA)	0.15	J	1	0.50	0.24	J	1	0.50	0.50
Allyl Chloride	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Carbon Disulfide	0.08	J	1	2.00	0.10	J	1	2.00	2.00
Trichlorotrifluoroethane	<SDL	ND	1	0.50	0.10	J	1	0.50	0.50
trans-1,2-Dichloroethene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1-Dichloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Methyl Tert Butyl Ether (MTBE)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Vinyl Acetate	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
2-Butanone (MEK)	0.56	J	1	1.00	0.85	J	1	1.00	1.00
cis-1,2-Dichloroethene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Hexane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Chloroform	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Ethyl Acetate	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Tetrahydrofuran	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2-Dichloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1,1-Trichloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Benzene	0.11	J	1	0.50	0.16	J	1	0.50	0.50
Carbon Tetrachloride	0.08	J	1	0.50	0.08	J	1	0.50	0.50
Cyclohexane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231910 Rev 1
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 09/25/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001800			Sample Quantitation Limit (SQL) (PQLxDF's)	617Fern 001786			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231910-49088				231910-49089				
Date Sampled	09/09/2023				09/15/2023				
Date Analyzed	09/29/2023				09/29/2023				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
1,2-Dichloropropane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Bromodichloromethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,4-Dioxane	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Trichloroethene (TCE)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
2,2,4-Trimethylpentane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Methyl Methacrylate	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Heptane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
cis-1,3-Dichloropropene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
4-Methyl-2-pentanone (MiBK)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
trans-1,3-Dichloropropene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1,2-Trichloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Toluene	0.23	J	1	0.50	0.22	J	1	0.50	0.50
2-Hexanone (MBK)	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Dibromochloromethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2-Dibromoethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Tetrachloroethene (PCE)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Chlorobenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Ethylbenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
m & p-Xylene	0.08	J	1	1.00	<SDL	ND	1	1.00	1.00
Bromoform	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Styrene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,1,2,2-Tetrachloroethane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
o-Xylene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2,3-Trichloropropane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Isopropylbenzene (Cumene)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
α-Pinene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
2-Chlorotoluene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
n-Propylbenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
4-Ethyltoluene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,3,5-Trimethylbenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
β-Pinene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2,4-Trimethylbenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Benzyl Chloride (a-Chlorotoluene)	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,3-Dichlorobenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,4-Dichlorobenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
Sec-ButylBenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2-Dichlorobenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
n-ButylBenzene	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2-Dibromo-3-Chloropropane	<SDL	ND	1	0.50	<SDL	ND	1	0.50	0.50
1,2,4-Trichlorobenzene	<SDL	ND	1	1.00	<SDL	ND	1	1.00	1.00
Naphthalene	<SDL	ND	1	2.00	<SDL	ND	1	2.00	2.00
Hexachlorobutadiene	<SDL	ND	1	2.00	<SDL	ND	1	2.00	2.00
BFB-Surrogate Std. % Recovery		94%				95%			70-130%

SDL - Sample Detection Limit
ND - Not Detected
J - Estimated value between the SDL and the SQL

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Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231910 Rev 1
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 09/25/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

Client ID	617Fern 001828		
AAC ID	231910-49086		
Date Sampled	08/28/2023		
Date Analyzed	09/29/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
n-Butyl acetate	ND	1	NA
Acetonitrile	ND	1	NA
d-Limonene	ND	1	NA
BFB-Surrogate Std. % Recovery	106%		

Client ID	617Fern 001746		
AAC ID	231910-49087		
Date Sampled	09/03/2023		
Date Analyzed	09/29/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
n-Butyl acetate	ND	1	NA
Acetonitrile	ND	1	NA
d-Limonene	ND	1	NA
BFB-Surrogate Std. % Recovery	106%		

[1] Results obtained via TICs analysis are estimated
[2] Spectral Library match quality ranges from 1-99

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Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231910 Rev 1
MATRIX : AIR
UNITS : µg/m³

DATE RECEIVED : 09/25/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

Client ID	617Fern 001828		
AAC ID	231910-49086		
Date Sampled	08/28/2023		
Date Analyzed	09/29/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
n-Butyl acetate	ND	1	NA
Acetonitrile	ND	1	NA
d-Limonene	ND	1	NA
BFB-Surrogate Std. % Recovery	106%		

Client ID	617Fern 001746		
AAC ID	231910-49087		
Date Sampled	09/03/2023		
Date Analyzed	09/29/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
n-Butyl acetate	ND	1	NA
Acetonitrile	ND	1	NA
d-Limonene	ND	1	NA
BFB-Surrogate Std. % Recovery	106%		

[1] Results obtained via TICs analysis are estimated
[2] Spectral Library match quality ranges from 1-99

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231910 Rev 1
MATRIX : AIR
UNITS : µg/m³

DATE RECEIVED : 09/25/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001800			Sample Quantitation Limit (SQL) (PQLxDF's)	617Fern 001786			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231910-49088				231910-49089				
Date Sampled	09/09/2023				09/15/2023				
Date Analyzed	09/29/2023				09/29/2023				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
Chlorodifluoromethane	<SDL	ND	1	1.77	<SDL	ND	1	1.77	1.8
Propene	0.36	J	1	1.72	0.34	J	1	1.72	1.7
Dichlorodifluoromethane	2.13	J	1	2.47	2.03	J	1	2.47	2.5
Dimethyl Ether	<SDL	ND	1	0.94	0.36	J	1	0.94	0.9
Chloromethane	1.32		1	1.03	1.45		1	1.03	1.0
Dichlorotetrafluoroethane	<SDL	ND	1	3.50	<SDL	ND	1	3.50	3.5
Vinyl Chloride	<SDL	ND	1	1.28	<SDL	ND	1	1.28	1.3
Acetaldehyde	10.1		1	9.01	25.9		1	9.01	9.0
Methanol	11.8		1	6.55	16.2		1	6.55	6.6
1,3-Butadiene	<SDL	ND	1	1.11	<SDL	ND	1	1.11	1.1
Bromomethane	<SDL	ND	1	1.94	<SDL	ND	1	1.94	1.9
Chloroethane	<SDL	ND	1	1.32	<SDL	ND	1	1.32	1.3
Dichlorofluoromethane	<SDL	ND	1	2.10	<SDL	ND	1	2.10	2.1
Ethanol	9.99		1	3.77	10.5		1	3.77	3.8
Vinyl Bromide	<SDL	ND	1	2.19	<SDL	ND	1	2.19	2.2
Acrolein	<SDL	ND	1	2.29	<SDL	ND	1	2.29	2.3
Acetone	13.2		1	4.75	17.9		1	4.75	4.8
Trichlorofluoromethane	1.29	J	1	2.81	1.35	J	1	2.81	2.8
2-Propanol (IPA)	1.25	J	1	4.92	1.60	J	1	4.92	4.9
Acrylonitrile	<SDL	ND	1	1.09	<SDL	ND	1	1.09	1.1
1,1-Dichloroethene	<SDL	ND	1	1.98	<SDL	ND	1	1.98	2.0
Methylene Chloride (DCM)	0.73	J	1	3.47	0.59	J	1	3.47	3.5
TertButanol (TBA)	0.45	J	1	1.52	0.73	J	1	1.52	1.5
Allyl Chloride	<SDL	ND	1	3.13	<SDL	ND	1	3.13	3.1
Carbon Disulfide	0.25	J	1	6.23	0.31	J	1	6.23	6.2
Trichlorotrifluoroethane	<SDL	ND	1	3.83	0.77	J	1	3.83	3.8
trans-1,2-Dichloroethene	<SDL	ND	1	1.98	<SDL	ND	1	1.98	2.0
1,1-Dichloroethane	<SDL	ND	1	2.02	<SDL	ND	1	2.02	2.0
Methyl Tert Butyl Ether (MTBE)	<SDL	ND	1	1.80	<SDL	ND	1	1.80	1.8
Vinyl Acetate	<SDL	ND	1	3.52	<SDL	ND	1	3.52	3.5
2-Butanone (MEK)	1.65	J	1	2.95	2.51	J	1	2.95	2.9
cis-1,2-Dichloroethene	<SDL	ND	1	1.98	<SDL	ND	1	1.98	2.0
Hexane	<SDL	ND	1	1.76	<SDL	ND	1	1.76	1.8
Chloroform	<SDL	ND	1	2.44	<SDL	ND	1	2.44	2.4
Ethyl Acetate	<SDL	ND	1	1.80	<SDL	ND	1	1.80	1.8
Tetrahydrofuran	<SDL	ND	1	1.47	<SDL	ND	1	1.47	1.5
1,2-Dichloroethane	<SDL	ND	1	2.02	<SDL	ND	1	2.02	2.0
1,1,1-Trichloroethane	<SDL	ND	1	2.73	<SDL	ND	1	2.73	2.7
Benzene	0.35	J	1	1.60	0.51	J	1	1.60	1.6
Carbon Tetrachloride	0.50	J	1	3.15	0.50	J	1	3.15	3.1
Cyclohexane	<SDL	ND	1	1.72	<SDL	ND	1	1.72	1.7

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Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231910 Rev 1
MATRIX : AIR
UNITS : µg/m³

DATE RECEIVED : 09/25/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

VOLATILE ORGANIC COMPOUNDS BY EPA TO-15

Client ID	617Fern 001800			Sample Quantitation Limit (SQL) (PQLxDF's)	617Fern 001786			Sample Quantitation Limit (SQL) (PQLxDF's)	Practical Quantitation Limit (PQL)
AAC ID	231910-49088				231910-49089				
Date Sampled	09/09/2023				09/15/2023				
Date Analyzed	09/29/2023				09/29/2023				
Can Dilution Factor	1.00				1.00				
Compound	Result	Qualifier	Analysis DF		Result	Qualifier	Analysis DF		
1,2-Dichloropropane	<SDL	ND	1	2.31	<SDL	ND	1	2.31	2.3
Bromodichloromethane	<SDL	ND	1	3.35	<SDL	ND	1	3.35	3.4
1,4-Dioxane	<SDL	ND	1	3.60	<SDL	ND	1	3.60	3.6
Trichloroethene (TCE)	<SDL	ND	1	2.69	<SDL	ND	1	2.69	2.7
2,2,4-Trimethylpentane	<SDL	ND	1	2.34	<SDL	ND	1	2.34	2.3
Methyl Methacrylate	<SDL	ND	1	2.05	<SDL	ND	1	2.05	2.0
Heptane	<SDL	ND	1	2.05	<SDL	ND	1	2.05	2.0
cis-1,3-Dichloropropene	<SDL	ND	1	2.27	<SDL	ND	1	2.27	2.3
4-Methyl-2-pentanone (MiBK)	<SDL	ND	1	2.05	<SDL	ND	1	2.05	2.0
trans-1,3-Dichloropropene	<SDL	ND	1	2.27	<SDL	ND	1	2.27	2.3
1,1,2-Trichloroethane	<SDL	ND	1	2.73	<SDL	ND	1	2.73	2.7
Toluene	0.87	J	1	1.88	0.83	J	1	1.88	1.9
2-Hexanone (MBK)	<SDL	ND	1	4.10	<SDL	ND	1	4.10	4.1
Dibromochloromethane	<SDL	ND	1	4.26	<SDL	ND	1	4.26	4.3
1,2-Dibromoethane	<SDL	ND	1	3.84	<SDL	ND	1	3.84	3.8
Tetrachloroethene (PCE)	<SDL	ND	1	3.39	<SDL	ND	1	3.39	3.4
Chlorobenzene	<SDL	ND	1	2.30	<SDL	ND	1	2.30	2.3
Ethylbenzene	<SDL	ND	1	2.17	<SDL	ND	1	2.17	2.2
m & p-Xylene	0.35	J	1	4.34	<SDL	ND	1	4.34	4.3
Bromoform	<SDL	ND	1	5.17	<SDL	ND	1	5.17	5.2
Styrene	<SDL	ND	1	2.13	<SDL	ND	1	2.13	2.1
1,1,2,2-Tetrachloroethane	<SDL	ND	1	3.43	<SDL	ND	1	3.43	3.4
o-Xylene	<SDL	ND	1	2.17	<SDL	ND	1	2.17	2.2
1,2,3-Trichloropropane	<SDL	ND	1	3.01	<SDL	ND	1	3.01	3.0
Isopropylbenzene (Cumene)	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
α-Pinene	<SDL	ND	1	2.79	<SDL	ND	1	2.79	2.8
2-Chlorotoluene	<SDL	ND	1	2.59	<SDL	ND	1	2.59	2.6
n-Propylbenzene	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
4-Ethyltoluene	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
1,3,5-Trimethylbenzene	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
ß-Pinene	<SDL	ND	1	2.79	<SDL	ND	1	2.79	2.8
1,2,4-Trimethylbenzene	<SDL	ND	1	2.46	<SDL	ND	1	2.46	2.5
Benzyl Chloride (a-Chlorotoluene)	<SDL	ND	1	2.59	<SDL	ND	1	2.59	2.6
1,3-Dichlorobenzene	<SDL	ND	1	3.01	<SDL	ND	1	3.01	3.0
1,4-Dichlorobenzene	<SDL	ND	1	3.01	<SDL	ND	1	3.01	3.0
Sec-ButylBenzene	<SDL	ND	1	2.74	<SDL	ND	1	2.74	2.7
1,2-Dichlorobenzene	<SDL	ND	1	3.01	<SDL	ND	1	3.01	3.0
n-ButylBenzene	<SDL	ND	1	2.74	<SDL	ND	1	2.74	2.7
1,2-Dibromo-3-Chloropropane	<SDL	ND	1	4.83	<SDL	ND	1	4.83	4.8
1,2,4-Trichlorobenzene	<SDL	ND	1	7.42	<SDL	ND	1	7.42	7.4
Naphthalene	<SDL	ND	1	10.5	<SDL	ND	1	10.5	10.5
Hexachlorobutadiene	<SDL	ND	1	21.3	<SDL	ND	1	21.3	21.3
BFB-Surrogate Std. % Recovery		94%				95%			70-130%

SDL - Sample Detection Limit
ND - Not Detected
J - Estimated value between the SDL and the SQL

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com • (805) 650-1642

Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231910 Rev 1
MATRIX : AIR
UNITS : PPB (v/v)

DATE RECEIVED : 09/25/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

Client ID	617Fern 001800		
AAC ID	231910-49088		
Date Sampled	09/09/2023		
Date Analyzed	09/29/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
n-Butyl acetate	ND	1	NA
Acetonitrile	ND	1	NA
d-Limonene	ND	1	NA
BFB-Surrogate Std. % Recovery	106%		

Client ID	617Fern 001786		
AAC ID	231910-49089		
Date Sampled	09/15/2023		
Date Analyzed	09/29/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
n-Butyl acetate	ND	1	NA
Acetonitrile	ND	1	NA
d-Limonene	ND	1	NA
BFB-Surrogate Std. % Recovery	106%		

[1] Results obtained via TICs analysis are estimated
[2] Spectral Library match quality ranges from 1-99

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Laboratory Analysis Report

CLIENT : Sacramento Metropolitan AQMD
PROJECT NO : 231910 Rev 1
MATRIX : AIR
UNITS : µg/m³

DATE RECEIVED : 09/25/2023
DATE REPORTED : 02/09/2024
ANALYST : DL/CH

TENTATIVELY IDENTIFIED COMPOUNDS (TICs) BY EPA TO-15

Client ID	617Fern 001800		
AAC ID	231910-49088		
Date Sampled	09/09/2023		
Date Analyzed	09/29/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
n-Butyl acetate	ND	1	NA
Acetonitrile	ND	1	NA
d-Limonene	ND	1	NA
BFB-Surrogate Std. % Recovery	106%		

Client ID	617Fern 001786		
AAC ID	231910-49089		
Date Sampled	09/15/2023		
Date Analyzed	09/29/2023		
Can Dilution Factor	1.00		
Compound	Result[1]	Analysis DF	ID Quality[2]
n-Butyl acetate	ND	1	NA
Acetonitrile	ND	1	NA
d-Limonene	ND	1	NA
BFB-Surrogate Std. % Recovery	106%		

[1] Results obtained via TICs analysis are estimated
[2] Spectral Library match quality ranges from 1-99

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Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 09/29/2023
MATRIX : High Purity N_2
UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04
CALIBRATION STD ID : MS1-051523-01
ANALYST : DL

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Continuing Calibration Verification of the 09/26/2023 Calibration

Analyte Compounds	*Source*[1]	*CCV*[2]	*% Recovery*[3]
4-BFB (surrogate standard)	9.40	9.42	100
Chlorodifluoromethane	10.40	11.08	107
Propene	10.60	10.79	102
Dichlorodifluoromethane	10.40	11.59	111
Dimethyl Ether	10.20	10.00	98
Chloromethane	10.40	10.14	98
Dichlorotetrafluoroethane	10.30	10.98	107
Vinyl Chloride	10.50	11.65	111
Acetaldehyde	21.10	19.48	92
Methanol	18.80	17.80	95
1,3-Butadiene	10.60	12.08	114
Bromomethane	10.40	10.82	104
Chloroethane	10.30	11.26	109
Dichlorofluoromethane	10.20	10.89	107
Ethanol	11.20	10.95	98
Vinyl Bromide	10.10	10.86	108
Acrolein	11.10	11.93	107
Acetone	10.60	9.96	94
Trichlorofluoromethane	10.50	10.95	104
2-Propanol (IPA)	11.00	11.61	106
Acrylonitrile	11.20	11.72	105
1,1-Dichloroethene	10.40	10.91	105
Methylene Chloride (DCM)	10.50	10.05	96
TertButanol (TBA)	11.10	12.29	111
Allyl Chloride	10.20	10.03	98
Carbon Disulfide	10.50	11.30	108
Trichlorotrifluoroethane	10.40	10.79	104
trans-1,2-Dichloroethene	10.60	11.94	113
1,1-Dichloroethane	10.50	11.27	107
Methyl Tert Butyl Ether (MTBE)	10.50	11.10	106
Vinyl Acetate	11.00	12.06	110
2-Butanone (MEK)	10.60	11.42	108
cis-1,2-Dichloroethene	10.50	11.59	110
Hexane	10.70	11.24	105
Chloroform	10.60	11.29	107
Ethyl Acetate	10.60	11.52	109
Tetrahydrofuran	10.20	10.94	107
1,2-Dichloroethane	10.50	11.20	107
1,1,1-Trichloroethane	10.40	11.21	108
Benzene	10.60	11.66	110
Carbon Tetrachloride	10.20	11.34	111
Cyclohexane	10.50	11.06	105

Analyte Compounds (Continued)	*Source*[1]	*CCV*[2]	*% Recovery*[3]
1,2-Dichloropropane	10.50	11.73	112
Bromodichloromethane	10.40	11.74	113
1,4-Dioxane	10.40	11.21	108
Trichloroethene (TCE)	10.40	11.36	109
2,2,4-Trimethylpentane	10.00	11.09	111
Methyl Methacrylate	11.00	12.98	118
Heptane	10.50	11.47	109
cis-1,3-Dichloropropene	10.40	11.91	115
4-Methyl-2-pentanone (MiBK)	10.40	11.50	111
trans-1,3-Dichloropropene	10.50	11.82	113
1,1,2-Trichloroethane	10.50	11.51	110
Toluene	10.60	11.57	109
2-Hexanone (MBK)	10.50	12.16	116
Dibromochloromethane	10.30	11.51	112
1,2-Dibromoethane	10.60	11.81	111
Tetrachloroethene (PCE)	10.40	11.34	109
Chlorobenzene	10.60	11.10	105
Ethylbenzene	10.50	11.56	110
m & p-Xylene	21.00	22.85	109
Bromoform	10.50	11.82	113
Styrene	10.50	12.05	115
1,1,2,2-Tetrachloroethane	10.50	11.56	110
o-Xylene	10.50	11.42	109
1,2,3-Trichloropropane	11.00	12.08	110
Isopropylbenzene (Cumene)	10.30	11.01	107
α-Pinene	10.70	10.68	100
2-Chlorotoluene	10.30	11.17	108
n-Propylbenzene	10.10	10.90	108
4-Ethyltoluene	10.30	11.21	109
1,3,5-Trimethylbenzene	10.30	11.49	112
β-Pinene	11.00	11.67	106
1,2,4-Trimethylbenzene	10.30	11.19	109
Benzyl Chloride (a-Chlorotoluene)	10.40	9.99	96
1,3-Dichlorobenzene	10.40	11.35	109
1,4-Dichlorobenzene	10.30	11.22	109
Sec-ButylBenzene	10.10	11.08	110
1,2-Dichlorobenzene	10.60	11.22	106
n-ButylBenzene	10.20	11.15	109
1,2-Dibromo-3-Chloropropane	10.10	11.38	113
1,2,4-Trichlorobenzene	11.00	12.29	112
Naphthalene	11.50	12.19	106
Hexachlorobutadiene	11.00	11.55	105

[1] Concentration of analyte compound in certified source standard.
[2] Measured result from daily Continuing Calibration Verification (CCV).
[3] The acceptable range for analyte recovery is 100±30%.

* - β-Pinene results are estimated.

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QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 09/29/2023
MATRIX : High Purity N_2
UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04
CALIBRATION STD ID : MS1-051523-01
ANALYST : DL

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Laboratory Control Spike Analysis

System Monitoring Compounds	*Sample Concentration*	*Spike Added*	*LCS[1] Recovery*	*LCSD[1] Recovery*	*LCS[1] % Recovery[2]*	*LCSD[1] % Recovery[2]*	*RPD[3]*
4-BFB (surrogate standard)	0.0	9.40	9.42	9.43	100	100	0.1
1,1-Dichloroethene	0.0	10.40	10.91	10.50	105	101	3.8
Methylene Chloride (DCM)	0.0	10.50	10.05	10.14	96	97	0.9
Benzene	0.0	10.60	11.66	11.33	110	107	2.9
Trichloroethene (TCE)	0.0	10.40	11.36	10.87	109	105	4.4
Toluene	0.0	10.60	11.57	11.32	109	107	2.2
Tetrachloroethene (PCE)	0.0	10.40	11.34	11.08	109	107	2.3
Chlorobenzene	0.0	10.60	11.10	11.15	105	105	0.4
Ethylbenzene	0.0	10.50	11.56	11.59	110	110	0.3
m & p-Xylene	0.0	21.00	22.85	22.78	109	108	0.3
o-Xylene	0.0	10.50	11.42	11.35	109	108	0.6

[1] Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

[2] The acceptable range for analyte recovery is 100±30%.

[3] Relative Percent Difference (RPD) between LCS recovery and LCSD recovery (acceptable range is <25%).

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QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 09/29/2023 **INSTRUMENT ID : GC/MS-04**
MATRIX : High Purity He or N_2 **ANALYST : DL**
UNITS : PPB (v/v)

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Method Blank Analysis

Analyte Compounds	*MB 092923*	*Reporting Limit (RL)*
4-BFB (surrogate standard)	95%	100±30%
Chlorodifluoromethane	<RL	0.5
Propene	<RL	1.0
Dichlorodifluoromethane	<RL	0.5
Dimethyl Ether	<RL	0.5
Chloromethane	<RL	0.5
Dichlorotetrafluoroethane	<RL	0.5
Vinyl Chloride	<RL	0.5
Acetaldehyde	<RL	5.0
Methanol	<RL	5.0
1,3-Butadiene	<RL	0.5
Bromomethane	<RL	0.5
Chloroethane	<RL	0.5
Dichlorofluoromethane	<RL	0.5
Ethanol	<RL	2.0
Vinyl Bromide	<RL	0.5
Acrolein	<RL	1.0
Acetone	<RL	2.0
Trichlorofluoromethane	<RL	0.5
2-Propanol (IPA)	<RL	2.0
Acrylonitrile	<RL	0.5
1,1-Dichloroethene	<RL	0.5
Methylene Chloride (DCM)	<RL	1.0
TertButanol (TBA)	<RL	0.5
Allyl Chloride	<RL	1.0
Carbon Disulfide	<RL	2.0
Trichlorotrifluoroethane	<RL	0.5
trans-1,2-Dichloroethene	<RL	0.5
1,1-Dichloroethane	<RL	0.5
Methyl Tert Butyl Ether (MTBE)	<RL	0.5
Vinyl Acetate	<RL	1.0
2-Butanone (MEK)	<RL	1.0
cis-1,2-Dichloroethene	<RL	0.5
Hexane	<RL	0.5
Chloroform	<RL	0.5
Ethyl Acetate	<RL	0.5
Tetrahydrofuran	<RL	0.5
1,2-Dichloroethane	<RL	0.5
1,1,1-Trichloroethane	<RL	0.5
Benzene	<RL	0.5
Carbon Tetrachloride	<RL	0.5
Cyclohexane	<RL	0.5

Analyte Compounds (Continued)	*MB 092923*	*Reporting Limit (RL)*
1,2-Dichloropropane	<RL	0.5
Bromodichloromethane	<RL	0.5
1,4-Dioxane	<RL	1.0
Trichloroethene (TCE)	<RL	0.5
2,2,4-Trimethylpentane	<RL	0.5
Methyl Methacrylate	<RL	0.5
Heptane	<RL	0.5
cis-1,3-Dichloropropene	<RL	0.5
4-Methyl-2-pentanone (MiBK)	<RL	0.5
trans-1,3-Dichloropropene	<RL	0.5
1,1,2-Trichloroethane	<RL	0.5
Toluene	<RL	0.5
2-Hexanone (MBK)	<RL	1.0
Dibromochloromethane	<RL	0.5
1,2-Dibromoethane	<RL	0.5
Tetrachloroethene (PCE)	<RL	0.5
Chlorobenzene	<RL	0.5
Ethylbenzene	<RL	0.5
m & p-Xylene	<RL	1.0
Bromoform	<RL	0.5
Styrene	<RL	0.5
1,1,2,2-Tetrachloroethane	<RL	0.5
o-Xylene	<RL	0.5
1,2,3-Trichloropropane	<RL	0.5
Isopropylbenzene (Cumene)	<RL	0.5
α-Pinene	<RL	0.5
2-Chlorotoluene	<RL	0.5
n-Propylbenzene	<RL	0.5
4-Ethyltoluene	<RL	0.5
1,3,5-Trimethylbenzene	<RL	0.5
β-Pinene	<RL	0.5
1,2,4-Trimethylbenzene	<RL	0.5
Benzyl Chloride (a-Chlorotoluene)	<RL	0.5
1,3-Dichlorobenzene	<RL	0.5
1,4-Dichlorobenzene	<RL	0.5
Sec-ButylBenzene	<RL	0.5
1,2-Dichlorobenzene	<RL	0.5
n-ButylBenzene	<RL	0.5
1,2-Dibromo-3-Chloropropane	<RL	0.5
1,2,4-Trichlorobenzene	<RL	0.5
Naphthalene	<RL	0.5
Hexachlorobutadiene	<RL	0.5

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Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 09/29/2023
MATRIX : High Purity He or N_2
UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04
ANALYST : DL

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Method Blank Analysis

Analyte Compounds	*MB 010622*	*PQL [1]*	*MDL [2]*
4-BFB (surrogate standard)	89%	100±30%	*NA*
Chlorodifluoromethane	<PQL	0.5	0.035
Propene	<PQL	1.0	0.034
Dichlorodifluoromethane	<PQL	0.5	0.024
Dimethyl Ether	<PQL	0.5	0.096
Chloromethane	<PQL	0.5	0.084
Dichlorotetrafluoroethane	<PQL	0.5	0.031
Vinyl Chloride	<PQL	0.5	0.057
Acetaldehyde	<PQL	5.0	0.531
Methanol	<PQL	5.0	0.394
1,3-Butadiene	<PQL	0.5	0.057
Bromomethane	<PQL	0.5	0.065
Chloroethane	<PQL	0.5	0.390
Dichlorofluoromethane	<PQL	0.5	0.022
Ethanol	<PQL	2.0	0.109
Vinyl Bromide	<PQL	0.5	0.057
Acrolein	<PQL	1.0	0.043
Acetone	<PQL	2.0	0.100
Trichlorofluoromethane	<PQL	0.5	0.031
2-Propanol (IPA)	<PQL	2.0	0.028
Acrylonitrile	<PQL	2.0	0.130
1,1-Dichloroethene	<PQL	0.5	0.056
Methylene Chloride (DCM)	<PQL	1.0	0.028
TertButanol (TBA)	<PQL	0.5	0.017
Allyl Chloride	<PQL	1.0	0.043
Carbon Disulfide	<PQL	2.0	0.057
Trichlorotrifluoroethane	<PQL	0.5	0.043
trans-1,2-Dichloroethene	<PQL	0.5	0.044
1,1-Dichloroethane	<PQL	0.5	0.034
Methyl Tert Butyl Ether (MTBE)	<PQL	0.5	0.025
Vinyl Acetate	<PQL	1.0	0.049
2-Butanone (MEK)	<PQL	1.0	0.109
cis-1,2-Dichloroethene	<PQL	0.5	0.057
Hexane	<PQL	0.5	0.138
Chloroform	<PQL	0.5	0.015
Ethyl Acetate	<PQL	0.5	0.044
Tetrahydrofuran	<PQL	0.5	0.074
1,2-Dichloroethane	<PQL	0.5	0.043
1,1,1-Trichloroethane	<PQL	0.5	0.035
Benzene	<PQL	0.5	0.034
Carbon Tetrachloride	<PQL	0.5	0.036
Cyclohexane	<PQL	0.5	0.081

Analyte Compounds (Continued)	*MB 010622*	*PQL [1]*	*MDL [2]*
1,2-Dichloropropane	<PQL	0.5	0.039
Bromodichloromethane	<PQL	0.5	0.028
1,4-Dioxane	<PQL	1.0	0.048
Trichloroethene (TCE)	<PQL	0.5	0.036
2,2,4-Trimethylpentane	<PQL	0.5	0.017
Methyl Methacrylate	<PQL	0.5	0.056
Heptane	<PQL	0.5	0.035
cis-1,3-Dichloropropene	<PQL	0.5	0.034
4-Methyl-2-pentanone (MiBK)	<PQL	0.5	0.036
trans-1,3-Dichloropropene	<PQL	0.5	0.051
1,1,2-Trichloroethane	<PQL	0.5	0.034
Toluene	<PQL	0.5	0.036
2-Hexanone (MBK)	<PQL	1.0	0.030
Dibromochloromethane	<PQL	0.5	0.012
1,2-Dibromoethane	<PQL	0.5	0.031
Tetrachloroethene (PCE)	<PQL	0.5	0.036
Chlorobenzene	<PQL	0.5	0.040
Ethylbenzene	<PQL	0.5	0.034
m & p-Xylene	<PQL	1.0	0.022
Bromoform	<PQL	0.5	0.028
Styrene	<PQL	0.5	0.015
1,1,2,2-Tetrachloroethane	<PQL	0.5	0.024
o-Xylene	<PQL	0.5	0.035
1,2,3-Trichloropropane	<PQL	0.5	0.062
Isopropylbenzene (Cumene)	<PQL	0.5	0.028
α-Pinene	<PQL	0.5	0.059
2-Chlorotoluene	<PQL	0.5	0.036
n-Propylbenzene	<PQL	0.5	0.038
4-Ethyltoluene	<PQL	0.5	0.024
1,3,5-Trimethylbenzene	<PQL	0.5	0.022
β-Pinene	<PQL	0.5	0.035
1,2,4-Trimethylbenzene	<PQL	0.5	0.028
Benzyl Chloride (a-Chlorotoluene)	<PQL	2.0	0.044
1,3-Dichlorobenzene	<PQL	0.5	0.015
1,4-Dichlorobenzene	<PQL	0.5	0.025
Sec-ButylBenzene	<PQL	0.5	0.012
1,2-Dichlorobenzene	<PQL	0.5	0.030
n-ButylBenzene	<PQL	0.5	0.030
1,2-Dibromo-3-Chloropropane	<PQL	1.0	0.060
1,2,4-Trichlorobenzene	<PQL	5.0	0.084
Naphthalene	<PQL	2.0	0.093
Hexachlorobutadiene	<PQL	0.5	0.040

[1] Practical Quantitation Limit (PQL)
[2] Method Detection Limit (MDL)

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Atmospheric Analysis & Consulting, Inc.

QUALITY CONTROL / QUALITY ASSURANCE REPORT

ANALYSIS DATE : 09/29/2023
MATRIX : Air
UNITS : PPB (v/v)

INSTRUMENT ID : GC/MS-04
ANALYST : DL
DILUTION FACTOR[1] : x2.05

VOLATILE ORGANIC COMPOUNDS BY EPA METHOD TO-15

Duplicate Analysis of AAC Sample ID: 231900-49058

Analyte Compounds		*Sample*	*Duplicate*	*RPD[2]*
4-BFB (surrogate standard)		9.08	9.01	0.8
Chlorodifluoromethane		<SRL	<SRL	*NA*
Propene		<SRL	<SRL	*NA*
Dichlorodifluoromethane		<SRL	<SRL	*NA*
Dimethyl Ether		<SRL	<SRL	*NA*
Chloromethane		<SRL	<SRL	*NA*
Dichlorotetrafluoroethane		<SRL	<SRL	*NA*
Vinyl Chloride		<SRL	<SRL	*NA*
Acetaldehyde		18.0	17.8	1.4
Methanol	J	10.9	9.83	10.7
1,3-Butadiene		<SRL	<SRL	*NA*
Bromomethane		<SRL	<SRL	*NA*
Chloroethane		<SRL	<SRL	*NA*
Dichlorofluoromethane		<SRL	<SRL	*NA*
Ethanol	J	3.83	3.87	1.1
Vinyl Bromide		<SRL	<SRL	*NA*
Acrolein	J	1.62	1.62	0.0
Acetone		12.0	11.7	1.9
Trichlorofluoromethane		<SRL	<SRL	*NA*
2-Propanol (IPA)		<SRL	<SRL	*NA*
Acrylonitrile		<SRL	<SRL	*NA*
1,1-Dichloroethene		<SRL	<SRL	*NA*
Methylene Chloride (DCM)		3.71	3.40	8.6
TertButanol (TBA)		<SRL	<SRL	*NA*
Allyl Chloride		<SRL	<SRL	*NA*
Carbon Disulfide		13.2	13.4	1.4
Trichlorotrifluoroethane		<SRL	<SRL	*NA*
trans-1,2-Dichloroethene		<SRL	<SRL	*NA*
1,1-Dichloroethane		<SRL	<SRL	*NA*
Methyl Tert Butyl Ether (MTBE)		<SRL	<SRL	*NA*
Vinyl Acetate		<SRL	<SRL	*NA*
2-Butanone (MEK)		2.66	2.27	15.8
cis-1,2-Dichloroethene		<SRL	<SRL	*NA*
Hexane		121	118	2.8
Chloroform		<SRL	<SRL	*NA*
Ethyl Acetate		<SRL	<SRL	*NA*
Tetrahydrofuran		<SRL	<SRL	*NA*
1,2-Dichloroethane		<SRL	<SRL	*NA*
1,1,1-Trichloroethane		<SRL	<SRL	*NA*
Benzene		<SRL	<SRL	*NA*
Carbon Tetrachloride		<SRL	<SRL	*NA*
Cyclohexane		<SRL	<SRL	*NA*

Analyte Compounds (Continued)	*Sample*	*Duplicate*	*RPD[2]*
1,2-Dichloropropane	<SRL	<SRL	*NA*
Bromodichloromethane	<SRL	<SRL	*NA*
1,4-Dioxane	<SRL	<SRL	*NA*
Trichloroethene (TCE)	<SRL	<SRL	*NA*
2,2,4-Trimethylpentane	<SRL	<SRL	*NA*
Methyl Methacrylate	<SRL	<SRL	*NA*
Heptane	<SRL	<SRL	*NA*
cis-1,3-Dichloropropene	<SRL	<SRL	*NA*
4-Methyl-2-pentanone (MiBK)	<SRL	<SRL	*NA*
trans-1,3-Dichloropropene	<SRL	<SRL	*NA*
1,1,2-Trichloroethane	<SRL	<SRL	*NA*
Toluene	8.11	8.09	0.3
2-Hexanone (MBK)	<SRL	<SRL	*NA*
Dibromochloromethane	<SRL	<SRL	*NA*
1,2-Dibromoethane	<SRL	<SRL	*NA*
Tetrachloroethene (PCE)	<SRL	<SRL	*NA*
Chlorobenzene	<SRL	<SRL	*NA*
Ethylbenzene	<SRL	<SRL	*NA*
m & p-Xylene	<SRL	<SRL	*NA*
Bromoform	<SRL	<SRL	*NA*
Styrene	<SRL	<SRL	*NA*
1,1,2,2-Tetrachloroethane	<SRL	<SRL	*NA*
o-Xylene	<SRL	<SRL	*NA*
1,2,3-Trichloropropane	<SRL	<SRL	*NA*
Isopropylbenzene (Cumene)	<SRL	<SRL	*NA*
α-Pinene	<SRL	<SRL	*NA*
2-Chlorotoluene	<SRL	<SRL	*NA*
n-Propylbenzene	<SRL	<SRL	*NA*
4-Ethyltoluene	<SRL	<SRL	*NA*
1,3,5-Trimethylbenzene	<SRL	<SRL	*NA*
β-Pinene	<SRL	<SRL	*NA*
1,2,4-Trimethylbenzene	<SRL	<SRL	*NA*
Benzyl Chloride (a-Chlorotoluene)	<SRL	<SRL	*NA*
1,3-Dichlorobenzene	<SRL	<SRL	*NA*
1,4-Dichlorobenzene	<SRL	<SRL	*NA*
Sec-ButylBenzene	<SRL	<SRL	*NA*
1,2-Dichlorobenzene	<SRL	<SRL	*NA*
n-ButylBenzene	<SRL	<SRL	*NA*
1,2-Dibromo-3-Chloropropane	<SRL	<SRL	*NA*
1,2,4-Trichlorobenzene	<SRL	<SRL	*NA*
Naphthalene	<SRL	<SRL	*NA*
Hexachlorobutadiene	<SRL	<SRL	*NA*

[1] Dilution factor is the product of the Canister Dilution Factor and the Analysis Dilution Factor.

[2] Relative Percent Difference (RPD) between Sample analysis and Duplicate analysis (acceptable range is <25%).

SRL - Sample Reporting Limit (minimum)

J - Estimated value between the detection limit and the minimum reporting limit, shown for duplication purposes only.

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ATMOSPHERIC ANALYSIS & CONSULTING, INC.
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E-mail: info@aaclab.com

AAC Project No. 231910

CHAIN OF CUSTODY/ ANALYSIS REQUEST FORM

Client Name: Sacramento Metropolitan AQMD
Project Name: AB617 VOC Analysis
Project Mgr (Print Name): Levi Ford
Project Number: Contract 2023-00000016
Sampler's Name (Print Name): Gabriela Rico
Sampler's Signature:

Send report:
Attn: Levi Ford
Phone#: 916-307-0505

Send invoice to:
Attn: Acct Payable
P.O. # Cite contract #

Turnaround Time
24 - 48 Hr ____ 72 Hr ____
5 Day ____ Normal X

Special Instructions/remarks:

AAC Sample No.	Date Sampled	Time Sampled	Sample Type	Client Sample ID/Description	Type/No. of Containers	TO-15 extended list	TIC	PAMS C2-C12			
001828	8/28/23	00:00-24:00	VOC	49086 617Fern	Silonite 1	X	X	X			
001746	9/03/23	00:00-24:00	VOC	49087 617Fern	Silonite 1	X	X	X			
001800	9/09/23	00:00-24:00	VOC	49088 617Fern	Silonite 1	X	X	X			
001786	09/15/23	00:00-24:00	VOC	49089 617Fern	Silonite 1	X	X	X			
					Silonite 1						
					Silonite 1						
					Silonite 1						
					Silonite 1						
					Silonite 1						
					Silonite 1						
					Silonite 1						
					Silonite 1						

Relinquished by (Signature): [signature]
Print Name: G.Rico
09/20/2023 10:00
9/25/23 1322
Received by (signature): [signature]
Print Name: Hunter Paston

Fx — 4x can 4