

Detterman, Mark, Env. Health

From: Daniel Villanueva [dvillanueva@advgeoenv.com]
Sent: Thursday, April 17, 2014 10:23 AM
To: Detterman, Mark, Env. Health
Cc: Robert E. Marty; wlittle@advgeoenv.com
Subject: FW: Analytical Report for Project: Swiss Valley Cleaners [MAI WO#: 1404493]
Attachments: 1404493.pdf

Mr. Detterman,

Per ACEHD directives, AGE is providing the following data from indoor-air samples collected at the Estudillo Plaza Shopping center (related to the Swiss Valley Cleaners site located at 1395 MacArthur Boulevard, San Leandro, California).

Please give me a call to discuss the data, once the county has reviewed against the established ESL's.

Regards,

Daniel Villanueva

Project Geologist

Advanced GeoEnvironmental, Inc.

Stockton • Los Angeles • San Francisco Bay Area • Monterey • Spokane • Seattle • Portland • Reno • Dallas

Phone: 800-511-9300

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dvillanueva@advgeoenv.com

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From: main@mccampbell.com [<mailto:main@mccampbell.com>]
Sent: Thursday, April 17, 2014 9:33 AM
To: dvillanueva@advgeoenv.com
Subject: Analytical Report for Project: Swiss Valley Cleaners [MAI WO#: 1404493]

Daniel,

Attached is your final, certified analytical report. If an EDD (EDF for GeoTracker, "WriteOn", Excel format, etc.) has been requested, this file will follow as an attachment in a separate email within one week. Thank you for choosing MAI for your analytical needs.

Best regards,

Angela Rydelius

McC Campbell Analytical, Inc.

Ph: 925-252-9262

Fx: 925-252-9269

www.mcccampbell.com

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McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1404493

Report Created for: Advanced GeoEnvironmental, Inc.
837 Shaw Road
Stockton, CA 95215

Project Contact: Daniel Villanueva
Project P.O.:
Project Name: Swiss Valley Cleaners

Project Received: 04/11/2014

Analytical Report reviewed & approved for release on 04/17/2014 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Advanced GeoEnvironmental, Inc.

Project: Swiss Valley Cleaners

WorkOrder: 1404493

Glossary

Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: Swiss Valley Cleaners
Date Received: 4/11/14 20:46
Date Prepared: 4/14/14-4/15/14

WorkOrder: 1404493
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
IA-1383 MacArthur	1404493-001A	Indoor Air	04/10/2014 10:40	GC24	89362

Initial Pressure (psia) **Final Pressure (psia)**

13.31	13.31
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Analytes	Result	RL	DF	Date Analyzed
Acetone	3600	600	100	04/15/2014 09:39
Acrolein	ND	0.23	1	04/14/2014 21:52
Acrylonitrile	ND	0.22	1	04/14/2014 21:52
tert-Amyl methyl ether (TAME)	ND	0.42	1	04/14/2014 21:52
Benzene	0.65	0.032	1	04/14/2014 21:52
Benzyl chloride	ND	0.53	1	04/14/2014 21:52
Bromodichloromethane	ND	0.0070	1	04/14/2014 21:52
Bromoform	ND	1.1	1	04/14/2014 21:52
Bromomethane	ND	0.39	1	04/14/2014 21:52
1,3-Butadiene	ND	0.22	1	04/14/2014 21:52
2-Butanone (MEK)	ND	7.5	1	04/14/2014 21:52
t-Butyl alcohol (TBA)	ND	6.2	1	04/14/2014 21:52
Carbon Disulfide	ND	0.32	1	04/14/2014 21:52
Carbon Tetrachloride	0.38	0.0064	1	04/14/2014 21:52
Chlorobenzene	ND	0.47	1	04/14/2014 21:52
Chloroethane	ND	0.27	1	04/14/2014 21:52
Chloroform	0.51	0.0049	1	04/14/2014 21:52
Chloromethane	ND	0.21	1	04/14/2014 21:52
Cyclohexane	ND	1.8	1	04/14/2014 21:52
Dibromochloromethane	ND	0.87	1	04/14/2014 21:52
1,2-Dibromo-3-chloropropane	ND	0.0049	1	04/14/2014 21:52
1,2-Dibromoethane (EDB)	0.011	0.0078	1	04/14/2014 21:52
1,2-Dichlorobenzene	ND	0.61	1	04/14/2014 21:52
1,3-Dichlorobenzene	ND	0.61	1	04/14/2014 21:52
1,4-Dichlorobenzene	0.096	0.0061	1	04/14/2014 21:52
Dichlorodifluoromethane	ND	0.50	1	04/14/2014 21:52
1,1-Dichloroethane	ND	0.41	1	04/14/2014 21:52
1,2-Dichloroethane (1,2-DCA)	0.43	0.0041	1	04/14/2014 21:52
1,1-Dichloroethene	ND	0.10	1	04/14/2014 21:52
cis-1,2-Dichloroethene	ND	0.40	1	04/14/2014 21:52
trans-1,2-Dichloroethene	ND	0.40	1	04/14/2014 21:52
1,2-Dichloropropane	ND	0.0047	1	04/14/2014 21:52
cis-1,3-Dichloropropene	ND	0.12	1	04/14/2014 21:52
trans-1,3-Dichloropropene	ND	0.12	1	04/14/2014 21:52

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: Swiss Valley Cleaners
Date Received: 4/11/14 20:46
Date Prepared: 4/14/14-4/15/14

WorkOrder: 1404493
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
IA-1383 MacArthur	1404493-001A	Indoor Air	04/10/2014 10:40	GC24	89362

Initial Pressure (psia) **Final Pressure (psia)**

13.31	13.31
-------	-------

Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.71	1	04/14/2014 21:52
Diisopropyl ether (DIPE)	ND	0.42	1	04/14/2014 21:52
1,4-Dioxane	ND	0.0037	1	04/14/2014 21:52
Ethyl acetate	260	92	100	04/15/2014 09:39
Ethyl tert-butyl ether (ETBE)	ND	0.42	1	04/14/2014 21:52
Ethylbenzene	0.49	0.44	1	04/14/2014 21:52
4-Ethyltoluene	ND	0.50	1	04/14/2014 21:52
Freon 113	ND	0.78	1	04/14/2014 21:52
Heptane	ND	2.1	1	04/14/2014 21:52
Hexachlorobutadiene	ND	1.1	1	04/14/2014 21:52
Hexane	ND	1.8	1	04/14/2014 21:52
2-Hexanone	ND	0.42	1	04/14/2014 21:52
Isopropyl Alcohol	92	5.0	1	04/14/2014 21:52
4-Methyl-2-pentanone (MIBK)	ND	0.42	1	04/14/2014 21:52
Methyl-t-butyl ether (MTBE)	ND	0.37	1	04/14/2014 21:52
Methylene chloride	0.66	0.35	1	04/14/2014 21:52
Methyl methacrylate	680	42	100	04/15/2014 09:39
Naphthalene	0.26	0.050	1	04/14/2014 21:52
Propene	ND	8.8	1	04/14/2014 21:52
Styrene	0.58	0.43	1	04/14/2014 21:52
1,1,1,2-Tetrachloroethane	ND	0.0070	1	04/14/2014 21:52
1,1,2,2-Tetrachloroethane	ND	0.0070	1	04/14/2014 21:52
Tetrachloroethene	11	0.034	1	04/14/2014 21:52
Tetrahydrofuran	ND	0.60	1	04/14/2014 21:52
Toluene	11	0.38	1	04/14/2014 21:52
1,2,4-Trichlorobenzene	ND	0.75	1	04/14/2014 21:52
1,1,1-Trichloroethane	ND	0.55	1	04/14/2014 21:52
1,1,2-Trichloroethane	ND	0.0055	1	04/14/2014 21:52
Trichloroethene	0.047	0.0055	1	04/14/2014 21:52
Trichlorofluoromethane	ND	0.57	1	04/14/2014 21:52
1,2,4-Trimethylbenzene	ND	0.50	1	04/14/2014 21:52
1,3,5-Trimethylbenzene	ND	0.50	1	04/14/2014 21:52
Vinyl Acetate	ND	0.36	1	04/14/2014 21:52
Vinyl Chloride	ND	0.0026	1	04/14/2014 21:52

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Analytical Report

Client: Advanced GeoEnvironmental, Inc.

WorkOrder: 1404493

Project: Swiss Valley Cleaners

Extraction Method: TO15

Date Received: 4/11/14 20:46

Analytical Method: TO15

Date Prepared: 4/14/14-4/15/14

Unit: µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
IA-1383 MacArthur	1404493-001A	Indoor Air	04/10/2014 10:40	GC24	89362

Initial Pressure (psia)

Final Pressure (psia)

13.31	13.31
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Analytes	Result	RL	DF	Date Analyzed
Xylenes, Total	2.0	1.3	1	04/14/2014 21:52

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	109	70-130	04/14/2014 21:52
Toluene-d8	96	70-130	04/14/2014 21:52
4-BFB	102	70-130	04/14/2014 21:52

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: Swiss Valley Cleaners
Date Received: 4/11/14 20:46
Date Prepared: 4/14/14-4/15/14

WorkOrder: 1404493
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
IA-1377 MacArthur	1404493-002A	Indoor Air	04/10/2014 11:00	GC24	89362

Initial Pressure (psia)	Final Pressure (psia)
13.36	13.36

Analytes	Result	RL	DF	Date Analyzed
Acetone	110	60	10	04/14/2014 20:09
Acrolein	ND	0.23	1	04/14/2014 22:55
Acrylonitrile	ND	0.22	1	04/14/2014 22:55
tert-Amyl methyl ether (TAME)	ND	0.42	1	04/14/2014 22:55
Benzene	0.54	0.032	1	04/14/2014 22:55
Benzyl chloride	ND	0.53	1	04/14/2014 22:55
Bromodichloromethane	ND	0.0070	1	04/14/2014 22:55
Bromoform	ND	1.1	1	04/14/2014 22:55
Bromomethane	ND	0.39	1	04/14/2014 22:55
1,3-Butadiene	ND	0.22	1	04/14/2014 22:55
2-Butanone (MEK)	ND	7.5	1	04/14/2014 22:55
t-Butyl alcohol (TBA)	ND	6.2	1	04/14/2014 22:55
Carbon Disulfide	ND	0.32	1	04/14/2014 22:55
Carbon Tetrachloride	0.39	0.0064	1	04/14/2014 22:55
Chlorobenzene	ND	0.47	1	04/14/2014 22:55
Chloroethane	ND	0.27	1	04/14/2014 22:55
Chloroform	0.18	0.0049	1	04/14/2014 22:55
Chloromethane	0.54	0.21	1	04/14/2014 22:55
Cyclohexane	ND	1.8	1	04/14/2014 22:55
Dibromochloromethane	ND	0.87	1	04/14/2014 22:55
1,2-Dibromo-3-chloropropane	ND	0.0049	1	04/14/2014 22:55
1,2-Dibromoethane (EDB)	ND	0.0078	1	04/14/2014 22:55
1,2-Dichlorobenzene	ND	0.61	1	04/14/2014 22:55
1,3-Dichlorobenzene	ND	0.61	1	04/14/2014 22:55
1,4-Dichlorobenzene	0.10	0.0061	1	04/14/2014 22:55
Dichlorodifluoromethane	1.8	0.50	1	04/14/2014 22:55
1,1-Dichloroethane	ND	0.41	1	04/14/2014 22:55
1,2-Dichloroethane (1,2-DCA)	0.76	0.0041	1	04/14/2014 22:55
1,1-Dichloroethene	ND	0.10	1	04/14/2014 22:55
cis-1,2-Dichloroethene	ND	0.40	1	04/14/2014 22:55
trans-1,2-Dichloroethene	ND	0.40	1	04/14/2014 22:55
1,2-Dichloropropane	0.025	0.0047	1	04/14/2014 22:55
cis-1,3-Dichloropropene	ND	0.12	1	04/14/2014 22:55
trans-1,3-Dichloropropene	ND	0.12	1	04/14/2014 22:55

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: Swiss Valley Cleaners
Date Received: 4/11/14 20:46
Date Prepared: 4/14/14-4/15/14

WorkOrder: 1404493
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
IA-1377 MacArthur	1404493-002A	Indoor Air	04/10/2014 11:00	GC24	89362

Initial Pressure (psia) **Final Pressure (psia)**

13.36	13.36
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Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.71	1	04/14/2014 22:55
Diisopropyl ether (DIPE)	ND	0.42	1	04/14/2014 22:55
1,4-Dioxane	ND	0.0037	1	04/14/2014 22:55
Ethyl acetate	7.4	0.92	1	04/14/2014 22:55
Ethyl tert-butyl ether (ETBE)	ND	0.42	1	04/14/2014 22:55
Ethylbenzene	0.69	0.44	1	04/14/2014 22:55
4-Ethyltoluene	ND	0.50	1	04/14/2014 22:55
Freon 113	ND	0.78	1	04/14/2014 22:55
Heptane	ND	2.1	1	04/14/2014 22:55
Hexachlorobutadiene	ND	1.1	1	04/14/2014 22:55
Hexane	ND	1.8	1	04/14/2014 22:55
2-Hexanone	ND	0.42	1	04/14/2014 22:55
Isopropyl Alcohol	180	5.0	1	04/14/2014 22:55
4-Methyl-2-pentanone (MIBK)	ND	0.42	1	04/14/2014 22:55
Methyl-t-butyl ether (MTBE)	ND	0.37	1	04/14/2014 22:55
Methylene chloride	0.70	0.35	1	04/14/2014 22:55
Methyl methacrylate	11	0.42	1	04/14/2014 22:55
Naphthalene	0.22	0.050	1	04/14/2014 22:55
Propene	ND	8.8	1	04/14/2014 22:55
Styrene	0.44	0.43	1	04/14/2014 22:55
1,1,1,2-Tetrachloroethane	ND	0.0070	1	04/14/2014 22:55
1,1,2,2-Tetrachloroethane	ND	0.0070	1	04/14/2014 22:55
Tetrachloroethene	2.1	0.034	1	04/14/2014 22:55
Tetrahydrofuran	ND	0.60	1	04/14/2014 22:55
Toluene	2.8	0.38	1	04/14/2014 22:55
1,2,4-Trichlorobenzene	ND	0.75	1	04/14/2014 22:55
1,1,1-Trichloroethane	ND	0.55	1	04/14/2014 22:55
1,1,2-Trichloroethane	ND	0.0055	1	04/14/2014 22:55
Trichloroethene	0.027	0.0055	1	04/14/2014 22:55
Trichlorofluoromethane	0.78	0.57	1	04/14/2014 22:55
1,2,4-Trimethylbenzene	ND	0.50	1	04/14/2014 22:55
1,3,5-Trimethylbenzene	ND	0.50	1	04/14/2014 22:55
Vinyl Acetate	ND	0.36	1	04/14/2014 22:55
Vinyl Chloride	ND	0.0026	1	04/14/2014 22:55

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.

WorkOrder: 1404493

Project: Swiss Valley Cleaners

Extraction Method: TO15

Date Received: 4/11/14 20:46

Analytical Method: TO15

Date Prepared: 4/14/14-4/15/14

Unit: µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
IA-1377 MacArthur	1404493-002A	Indoor Air	04/10/2014 11:00	GC24	89362

Initial Pressure (psia)

Final Pressure (psia)

13.36	13.36
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Analytes	Result	RL	DF	Date Analyzed
Xylenes, Total	3.0	1.3	1	04/14/2014 22:55

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	104	70-130	04/14/2014 22:55
Toluene-d8	98	70-130	04/14/2014 22:55
4-BFB	102	70-130	04/14/2014 22:55

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: Swiss Valley Cleaners
Date Received: 4/11/14 20:46
Date Prepared: 4/14/14-4/15/14

WorkOrder: 1404493
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
IA-1395 MacArthur	1404493-003A	Indoor Air	04/10/2014 11:10	GC24	89362

Initial Pressure (psia)	Final Pressure (psia)
13.62	13.62

Analytes	Result	RL	DF	Date Analyzed
Acetone	46	6.0	1	04/14/2014 23:53
Acrolein	2.2	0.23	1	04/14/2014 23:53
Acrylonitrile	ND	0.22	1	04/14/2014 23:53
tert-Amyl methyl ether (TAME)	ND	0.42	1	04/14/2014 23:53
Benzene	0.52	0.032	1	04/14/2014 23:53
Benzyl chloride	ND	0.53	1	04/14/2014 23:53
Bromodichloromethane	ND	0.0070	1	04/14/2014 23:53
Bromoform	ND	1.1	1	04/14/2014 23:53
Bromomethane	ND	0.39	1	04/14/2014 23:53
1,3-Butadiene	ND	0.22	1	04/14/2014 23:53
2-Butanone (MEK)	ND	7.5	1	04/14/2014 23:53
t-Butyl alcohol (TBA)	ND	6.2	1	04/14/2014 23:53
Carbon Disulfide	ND	0.32	1	04/14/2014 23:53
Carbon Tetrachloride	0.41	0.0064	1	04/14/2014 23:53
Chlorobenzene	ND	0.47	1	04/14/2014 23:53
Chloroethane	ND	0.27	1	04/14/2014 23:53
Chloroform	0.19	0.0049	1	04/14/2014 23:53
Chloromethane	0.60	0.21	1	04/14/2014 23:53
Cyclohexane	ND	1.8	1	04/14/2014 23:53
Dibromochloromethane	ND	0.87	1	04/14/2014 23:53
1,2-Dibromo-3-chloropropane	ND	0.0049	1	04/14/2014 23:53
1,2-Dibromoethane (EDB)	ND	0.0078	1	04/14/2014 23:53
1,2-Dichlorobenzene	ND	0.61	1	04/14/2014 23:53
1,3-Dichlorobenzene	ND	0.61	1	04/14/2014 23:53
1,4-Dichlorobenzene	0.099	0.0061	1	04/14/2014 23:53
Dichlorodifluoromethane	2.0	0.50	1	04/14/2014 23:53
1,1-Dichloroethane	ND	0.41	1	04/14/2014 23:53
1,2-Dichloroethane (1,2-DCA)	0.085	0.0041	1	04/14/2014 23:53
1,1-Dichloroethene	ND	0.10	1	04/14/2014 23:53
cis-1,2-Dichloroethene	ND	0.40	1	04/14/2014 23:53
trans-1,2-Dichloroethene	ND	0.40	1	04/14/2014 23:53
1,2-Dichloropropane	0.016	0.0047	1	04/14/2014 23:53
cis-1,3-Dichloropropene	ND	0.12	1	04/14/2014 23:53
trans-1,3-Dichloropropene	ND	0.12	1	04/14/2014 23:53

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.
Project: Swiss Valley Cleaners
Date Received: 4/11/14 20:46
Date Prepared: 4/14/14-4/15/14

WorkOrder: 1404493
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
IA-1395 MacArthur	1404493-003A	Indoor Air	04/10/2014 11:10	GC24	89362

Initial Pressure (psia) **Final Pressure (psia)**

13.62	13.62
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Analytes	Result	RL	DF	Date Analyzed
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.71	1	04/14/2014 23:53
Diisopropyl ether (DIPE)	ND	0.42	1	04/14/2014 23:53
1,4-Dioxane	ND	0.0037	1	04/14/2014 23:53
Ethyl acetate	2.7	0.92	1	04/14/2014 23:53
Ethyl tert-butyl ether (ETBE)	ND	0.42	1	04/14/2014 23:53
Ethylbenzene	ND	0.44	1	04/14/2014 23:53
4-Ethyltoluene	ND	0.50	1	04/14/2014 23:53
Freon 113	ND	0.78	1	04/14/2014 23:53
Heptane	ND	2.1	1	04/14/2014 23:53
Hexachlorobutadiene	ND	1.1	1	04/14/2014 23:53
Hexane	ND	1.8	1	04/14/2014 23:53
2-Hexanone	ND	0.42	1	04/14/2014 23:53
Isopropyl Alcohol	ND	5.0	1	04/14/2014 23:53
4-Methyl-2-pentanone (MIBK)	0.68	0.42	1	04/14/2014 23:53
Methyl-t-butyl ether (MTBE)	ND	0.37	1	04/14/2014 23:53
Methylene chloride	1.9	0.35	1	04/14/2014 23:53
Methyl methacrylate	5.9	0.42	1	04/14/2014 23:53
Naphthalene	0.34	0.050	1	04/14/2014 23:53
Propene	ND	8.8	1	04/14/2014 23:53
Styrene	ND	0.43	1	04/14/2014 23:53
1,1,1,2-Tetrachloroethane	ND	0.0070	1	04/14/2014 23:53
1,1,2,2-Tetrachloroethane	ND	0.0070	1	04/14/2014 23:53
Tetrachloroethene	12	0.034	1	04/14/2014 23:53
Tetrahydrofuran	ND	0.60	1	04/14/2014 23:53
Toluene	1.4	0.38	1	04/14/2014 23:53
1,2,4-Trichlorobenzene	ND	0.75	1	04/14/2014 23:53
1,1,1-Trichloroethane	ND	0.55	1	04/14/2014 23:53
1,1,2-Trichloroethane	ND	0.0055	1	04/14/2014 23:53
Trichloroethene	0.038	0.0055	1	04/14/2014 23:53
Trichlorofluoromethane	1.4	0.57	1	04/14/2014 23:53
1,2,4-Trimethylbenzene	ND	0.50	1	04/14/2014 23:53
1,3,5-Trimethylbenzene	ND	0.50	1	04/14/2014 23:53
Vinyl Acetate	ND	0.36	1	04/14/2014 23:53
Vinyl Chloride	ND	0.0026	1	04/14/2014 23:53

(Cont.)



Analytical Report

Client: Advanced GeoEnvironmental, Inc.

WorkOrder: 1404493

Project: Swiss Valley Cleaners

Extraction Method: TO15

Date Received: 4/11/14 20:46

Analytical Method: TO15

Date Prepared: 4/14/14-4/15/14

Unit: µg/m³

Volatile Organic Compounds in µg/m³

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
IA-1395 MacArthur	1404493-003A	Indoor Air	04/10/2014 11:10	GC24	89362

Initial Pressure (psia)

Final Pressure (psia)

13.62	13.62
-------	-------

Analytes	Result	RL	DF	Date Analyzed
Xylenes, Total	1.2	1.3	1	04/14/2014 23:53

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	97	70-130	04/14/2014 23:53
Toluene-d8	100	70-130	04/14/2014 23:53
4-BFB	101	70-130	04/14/2014 23:53



Quality Control Report

Client: Advanced GeoEnvironmental, Inc.
Date Prepared: 4/15/14
Date Analyzed: 4/14/14
Instrument: GC24
Matrix: Soilgas
Project: Swiss Valley Cleaners

WorkOrder: 1404493
BatchID: 89362
Extraction Method: TO15
Analytical Method: TO15
Unit: nL/L
Sample ID: MB/LCS-89362

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	50	-	-	-	-
Acrylonitrile	ND	21.4	2.0	25	-	85.6	60-140
tert-Amyl methyl ether (TAME)	ND	22.0	2.0	25	-	88.2	60-140
Benzene	ND	19.1	2.0	25	-	76.5	60-140
Benzyl chloride	ND	24.1	2.0	25	-	96.4	60-140
Bromodichloromethane	ND	22.4	2.0	25	-	89.5	60-140
Bromoform	ND	17.2	2.0	25	-	68.7	60-140
Bromomethane	ND	-	2.0	-	-	-	-
1,3-Butadiene	ND	-	2.0	-	-	-	-
2-Butanone (MEK)	ND	-	50	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	20	-	-	-	-
Carbon Disulfide	ND	21.9	2.0	25	-	87.7	60-140
Carbon Tetrachloride	ND	22.7	2.0	25	-	90.7	60-140
Chlorobenzene	ND	21.4	2.0	25	-	85.6	60-140
Chloroethane	ND	22.8	2.0	25	-	91.1	60-140
Chloroform	ND	18.5	2.0	25	-	74.1	60-140
Chloromethane	ND	18.9	2.0	25	-	75.6	60-140
Cyclohexane	ND	-	50	-	-	-	-
Dibromochloromethane	ND	24.1	2.0	25	-	96.4	60-140
1,2-Dibromo-3-chloropropane	ND	22.0	2.0	25	-	87.9	60-140
1,2-Dibromoethane (EDB)	ND	18.8	2.0	25	-	75.2	60-140
1,2-Dichlorobenzene	ND	-	2.0	-	-	-	-
1,3-Dichlorobenzene	ND	21.7	2.0	25	-	86.7	60-140
1,4-Dichlorobenzene	ND	23.7	2.0	25	-	94.7	60-140
Dichlorodifluoromethane	ND	19.3	2.0	25	-	77.1	60-140
1,1-Dichloroethane	ND	21.8	2.0	25	-	87	60-140
1,2-Dichloroethane (1,2-DCA)	ND	20.4	2.0	25	-	81.5	60-140
1,1-Dichloroethene	ND	-	2.0	-	-	-	-
cis-1,2-Dichloroethene	ND	21.9	2.0	25	-	87.6	60-140
trans-1,2-Dichloroethene	ND	21.3	2.0	25	-	85.2	60-140
1,2-Dichloropropane	ND	17.9	2.0	25	-	71.6	60-140
cis-1,3-Dichloropropene	ND	21.6	2.0	25	-	86.6	60-140
trans-1,3-Dichloropropene	ND	23.0	2.0	25	-	91.9	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	18.3	2.0	25	-	73	60-140
Diisopropyl ether (DIPE)	ND	21.1	2.0	25	-	84.5	60-140
1,4-Dioxane	ND	18.6	2.0	25	-	74.4	60-140
Ethanol	ND	-	50	-	-	-	-
Ethyl acetate	ND	23.4	2.0	25	-	93.8	60-140
Ethyl tert-butyl ether (ETBE)	ND	21.3	2.0	25	-	85.2	60-140
Ethylbenzene	ND	21.8	2.0	25	-	87.4	60-140

(Cont.)



Quality Control Report

Client: Advanced GeoEnvironmental, Inc.
Date Prepared: 4/15/14
Date Analyzed: 4/14/14
Instrument: GC24
Matrix: Soilgas
Project: Swiss Valley Cleaners

WorkOrder: 1404493
BatchID: 89362
Extraction Method: TO15
Analytical Method: TO15
Unit: nL/L
Sample ID: MB/LCS-89362

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
4-Ethyltoluene	ND	-	2.0	-	-	-	-
Freon 113	ND	20.4	2.0	25	-	81.6	60-140
Heptane	ND	-	50	-	-	-	-
Hexachlorobutadiene	ND	21.0	2.0	25	-	84.2	60-140
Hexane	ND	-	50	-	-	-	-
2-Hexanone	ND	-	50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	21.8	2.0	25	-	87.2	60-140
Methyl-t-butyl ether (MTBE)	ND	21.1	2.0	25	-	84.5	60-140
Methylene chloride	ND	24.0	2.0	25	-	96	60-140
Naphthalene	ND	44.0	2.0	50	-	88.1	60-140
Propene	ND	-	50	-	-	-	-
Styrene	ND	21.6	2.0	25	-	86.3	60-140
1,1,1,2-Tetrachloroethane	ND	21.4	2.0	25	-	85.6	60-140
1,1,2,2-Tetrachloroethane	ND	17.8	2.0	25	-	71.4	60-140
Tetrachloroethene	ND	21.6	2.0	25	-	86.3	60-140
Tetrahydrofuran	ND	24.7	2.0	25	-	98.7	60-140
Toluene	ND	21.5	2.0	25	-	86.1	60-140
1,2,4-Trichlorobenzene	ND	21.3	2.0	25	-	85.1	60-140
1,1,1-Trichloroethane	ND	22.0	2.0	25	-	88.1	60-140
1,1,2-Trichloroethane	ND	24.6	2.0	25	-	98.6	60-140
Trichloroethene	ND	22.8	2.0	25	-	91.2	60-140
Trichlorofluoromethane	ND	-	2.0	-	-	-	-
1,2,4-Trimethylbenzene	ND	21.8	2.0	25	-	87.2	60-140
1,3,5-Trimethylbenzene	ND	21.6	2.0	25	-	86.2	60-140
Vinyl Acetate	ND	-	50	-	-	-	-
Vinyl Chloride	ND	17.6	2.0	25	-	70.6	60-140
Xylenes, Total	ND	63.3	6.0	75	-	84.4	60-140

Surrogate Recovery

1,2-DCA-d4	472	482		500	94	96	60-140
Toluene-d8	498	495		500	99	99	60-140
4-BFB	487	482		500	97	97	60-140

1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1404493

ClientCode: AGES

WaterTrax
 WriteOn
 EDF
 Excel
 EQulS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Daniel Villanueva
 Advanced GeoEnvironmental, Inc.
 837 Shaw Road
 Stockton, CA 95215
 (209) 467-1006 FAX: (209) 467-1118

Email: dvillanueva@advgeoenv.com
 cc/3rd Party:
 PO:
 ProjectNo: Swiss Valley Cleaners

Bill to:
 Erica
 Advanced GeoEnvironmental, Inc.
 837 Shaw Road
 Stockton, CA 95215
 ebart@advgeoenv.com

Requested TAT: 5 days

Date Received: 04/11/2014
Date Printed: 04/14/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1404493-001	IA-1383 MacArthur	Indoor Air	4/10/2014 10:40	<input type="checkbox"/>	A												
1404493-002	IA-1377 MacArthur	Indoor Air	4/10/2014 11:00	<input type="checkbox"/>	A												
1404493-003	IA-1395 MacArthur	Indoor Air	4/10/2014 11:10	<input type="checkbox"/>	A												

Test Legend:

1	15_SCAN-SIM_Indoor(ug/m)	2		3		4		5	
6		7		8		9		10	
11		12							

The following SamplIDs: 001A, 002A, 003A contain testgroup.

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: ADVANCED GEOENVIRONMENTAL, INC.

QC Level: LEVEL 2

Work Order: 1404493

Project: Swiss Valley Cleaners

Client Contact: Daniel Villanueva

Date Received: 4/11/2014

Comments:

Contact's Email: dvillanueva@advgeoenv.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1404493-001A	IA-1383 MacArthur	Indoor Air	TO15 for Indoor Air	1	6L Summa	<input type="checkbox"/>	4/10/2014 10:40	5 days		<input type="checkbox"/>	
1404493-002A	IA-1377 MacArthur	Indoor Air	TO15 for Indoor Air	1	6L Summa	<input type="checkbox"/>	4/10/2014 11:00	5 days		<input type="checkbox"/>	
1404493-003A	IA-1395 MacArthur	Indoor Air	TO15 for Indoor Air	1	6L Summa	<input type="checkbox"/>	4/10/2014 11:10	5 days		<input type="checkbox"/>	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

6L Summa = 6L Summa Canister

140493



Advanced GeoEnvironmental, Inc.

www.advgeoenv.com

CHAIN OF CUSTODY RECORD

- 837 Shaw Road, Stockton, California 95215 • Phone (209) 467-1006 • Fax (209) 467-1118
- 381 Thor Place, Brea, California 92821 • Phone (714) 529-0200 • Fax (714) 529-0203
- 2318 Fourth Street, Santa Rosa, California 95404 • Phone (707) 570-1418 • Fax (707) 570-1461
- 395 Del Monte Center, #111, Monterey, California 93940 • Phone (800) 511-9300 • Fax (831) 394-5979
-

Date: 4-11-14 Page 1 of

Analysis Required

TO-15 (VOC's)

Project Name Swiss Valley Cleaners	Project Manager Daniel Villanueva
Client	Sampler (initials & signature) DN [Signature]
Invoice to: <input checked="" type="checkbox"/> AGE <input type="checkbox"/> Client	Lab Project No.:

Sample ID/Location/Description	Date	Time	Matrix	Number	Notes	
IA-1383 MacArthur	4-10-14 4-11-14	1040- 1005	A	1	Acetone may be @ high levels due to sample location in nail salon	X
IA-1377 MacArthur	4-10-14 4-11-14	1100- 1100	A	1		X
IA-1395 MacArthur	4-10-14 4-11-14	1110- 1110	A	1		X

Relinquished by: [Signature]	Date: 4-11-14	Time: 1050	Laboratory: MAI
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Courier:	Received by:	Date:	Time:
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Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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Relinquished by:	Date:	Time:	Received by: [Signature]	Date: 4/11/14	Time: 1050
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Requested Turn Around Time (circle): 24 hours 48 hours 72 hours 5 days (standard) Other: _____

Special Instructions to lab:	Matrix Codes: A = Air / W = Water S = Solid
I hereby authorize the performance of the above indicated work.	
[Signature]	

Geotracker EDF to: <input checked="" type="checkbox"/> geotracker@advgeoenv.com <input type="checkbox"/>	Global ID:
--	------------



Sample Receipt Checklist

Client Name: **Advanced GeoEnvironmental, Inc.** Date and Time Received: **4/11/2014 8:46:45 PM**
 Project Name: **Swiss Valley Cleaners** LogIn Reviewed by: **Jena Alfaro**
 WorkOrder N°: **1404493** Matrix: Indoor Air Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 Samples Received on Ice? Yes No

* NOTE: If the "No" box is checked, see comments below.

 Comments:

prohibited. If you have received this communication in error, please notify us immediately by telephone, and delete this message from your email. Thank You.