



11-Jan-2019

Kerri Castlen
Southwest Ohio Air Quality Agency
250 William Howard Taft Road
1st Floor
Cincinnati, OH 45219

Tel: 513-946-7777
Fax: 513-946-7778

Re: Winton Terrace; Client ID 2024-90

Work Order: **1812943**

Dear Kerri,

ALS Environmental received 2 samples on 27-Dec-2018 10:38 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 17.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Rob Nieman

Electronically approved by: Rob Nieman

Rob Nieman
Project Manager

ADDRESS 4388 Glendale Milford Rd Cincinnati, OH 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347

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Environmental 

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace; Client ID 2024-90
Work Order: 1812943

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1812943-01	WT-Craft-12-26	Air		12/26/2018 07:20	12/27/2018 10:38	<input type="checkbox"/>
1812943-02	WT-FH-12-26	Air		12/26/2018 07:35	12/27/2018 10:38	<input type="checkbox"/>

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace; Client ID 2024-90
Work Order: 1812943

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

ALS Environmental

Date: 11-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; Client ID 2024-90

Sample ID: WT-Craft-12-26

Collection Date: 12/26/2018 07:20 AM

Work Order: 1812943

Lab ID: 1812943-01

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
1,1,1-Trichloroethane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,2-Dibromoethane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,2-Dichloroethane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,3-Butadiene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,4-Dichlorobenzene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
1,4-Dioxane	ND		1.0	ppbv	1	12/30/2018 03:17 PM
2-Butanone	ND		0.50	ppbv	1	12/30/2018 03:17 PM
2-Hexanone	ND		1.0	ppbv	1	12/30/2018 03:17 PM
2-Propanol	1.1		1.0	ppbv	1	12/30/2018 03:17 PM
4-Ethyltoluene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	12/30/2018 03:17 PM
Acetone	3.5		1.0	ppbv	1	12/30/2018 03:17 PM
Benzene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Benzyl chloride	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Bromodichloromethane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Bromoform	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Bromomethane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Carbon disulfide	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Carbon tetrachloride	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Chlorobenzene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Chloroethane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Chloroform	ND		0.20	ppbv	1	12/30/2018 03:17 PM
Chloromethane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Cumene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Cyclohexane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Dibromochloromethane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Dichlorodifluoromethane	0.64		0.50	ppbv	1	12/30/2018 03:17 PM

Note:

ALS Environmental

Date: 11-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; Client ID 2024-90

Work Order: 1812943

Sample ID: WT-Craft-12-26

Lab ID: 1812943-01

Collection Date: 12/26/2018 07:20 AM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Ethylbenzene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Freon 113	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Freon 114	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Heptane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Hexachlorobutadiene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Hexane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
m,p-Xylene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Methylene chloride	ND		1.0	ppbv	1	12/30/2018 03:17 PM
MTBE	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Naphthalene	4.8		0.20	ppbv	1	12/30/2018 03:17 PM
o-Xylene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Propene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Styrene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Tetrachloroethene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Tetrahydrofuran	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Toluene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Trichloroethene	ND		0.20	ppbv	1	12/30/2018 03:17 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Vinyl acetate	ND		0.50	ppbv	1	12/30/2018 03:17 PM
Vinyl chloride	ND		0.50	ppbv	1	12/30/2018 03:17 PM
<i>Surr: Bromofluorobenzene</i>	<i>102</i>		<i>60-140</i>	<i>%REC</i>	1	12/30/2018 03:17 PM

TO-15 BY GC/MS

ETO-15

Analyst: MRJ

1,1,1-Trichloroethane	ND		2.73	µg/m3	1	12/30/2018 03:17 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	12/30/2018 03:17 PM
1,1,2-Trichloroethane	ND		2.73	µg/m3	1	12/30/2018 03:17 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	12/30/2018 03:17 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	12/30/2018 03:17 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	12/30/2018 03:17 PM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	12/30/2018 03:17 PM
1,2-Dibromoethane	ND		3.84	µg/m3	1	12/30/2018 03:17 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	12/30/2018 03:17 PM
1,2-Dichloroethane	ND		2.02	µg/m3	1	12/30/2018 03:17 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	12/30/2018 03:17 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	12/30/2018 03:17 PM
1,3-Butadiene	ND		1.11	µg/m3	1	12/30/2018 03:17 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	12/30/2018 03:17 PM
1,4-Dichlorobenzene	ND		3.01	µg/m3	1	12/30/2018 03:17 PM

Note:

ALS Environmental

Date: 11-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; Client ID 2024-90

Work Order: 1812943

Sample ID: WT-Craft-12-26

Lab ID: 1812943-01

Collection Date: 12/26/2018 07:20 AM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		3.60	µg/m3	1	12/30/2018 03:17 PM
2-Butanone	ND		1.47	µg/m3	1	12/30/2018 03:17 PM
2-Hexanone	ND		4.10	µg/m3	1	12/30/2018 03:17 PM
2-Propanol	2.65		2.46	µg/m3	1	12/30/2018 03:17 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	12/30/2018 03:17 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	12/30/2018 03:17 PM
Acetone	8.27		2.38	µg/m3	1	12/30/2018 03:17 PM
Benzene	ND		1.60	µg/m3	1	12/30/2018 03:17 PM
Benzyl chloride	ND		2.59	µg/m3	1	12/30/2018 03:17 PM
Bromodichloromethane	ND		3.35	µg/m3	1	12/30/2018 03:17 PM
Bromoform	ND		5.17	µg/m3	1	12/30/2018 03:17 PM
Bromomethane	ND		1.94	µg/m3	1	12/30/2018 03:17 PM
Carbon disulfide	ND		1.56	µg/m3	1	12/30/2018 03:17 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	12/30/2018 03:17 PM
Chlorobenzene	ND		2.30	µg/m3	1	12/30/2018 03:17 PM
Chloroethane	ND		1.32	µg/m3	1	12/30/2018 03:17 PM
Chloroform	ND		0.976	µg/m3	1	12/30/2018 03:17 PM
Chloromethane	ND		1.03	µg/m3	1	12/30/2018 03:17 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	12/30/2018 03:17 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	12/30/2018 03:17 PM
Cumene	ND		2.46	µg/m3	1	12/30/2018 03:17 PM
Cyclohexane	ND		1.72	µg/m3	1	12/30/2018 03:17 PM
Dibromochloromethane	ND		4.26	µg/m3	1	12/30/2018 03:17 PM
Dichlorodifluoromethane	3.17		2.47	µg/m3	1	12/30/2018 03:17 PM
Ethyl acetate	ND		1.80	µg/m3	1	12/30/2018 03:17 PM
Ethylbenzene	ND		2.17	µg/m3	1	12/30/2018 03:17 PM
Freon 113	ND		3.83	µg/m3	1	12/30/2018 03:17 PM
Freon 114	ND		3.50	µg/m3	1	12/30/2018 03:17 PM
Heptane	ND		2.05	µg/m3	1	12/30/2018 03:17 PM
Hexachlorobutadiene	ND		5.33	µg/m3	1	12/30/2018 03:17 PM
Hexane	ND		1.76	µg/m3	1	12/30/2018 03:17 PM
m,p-Xylene	ND		2.17	µg/m3	1	12/30/2018 03:17 PM
Methylene chloride	ND		3.47	µg/m3	1	12/30/2018 03:17 PM
MTBE	ND		1.80	µg/m3	1	12/30/2018 03:17 PM
Naphthalene	25.1		1.05	µg/m3	1	12/30/2018 03:17 PM
o-Xylene	ND		2.17	µg/m3	1	12/30/2018 03:17 PM
Propene	ND		0.861	µg/m3	1	12/30/2018 03:17 PM
Styrene	ND		2.13	µg/m3	1	12/30/2018 03:17 PM
Tetrachloroethene	ND		3.39	µg/m3	1	12/30/2018 03:17 PM
Tetrahydrofuran	ND		1.47	µg/m3	1	12/30/2018 03:17 PM

Note:

ALS Environmental

Date: 11-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; Client ID 2024-90

Work Order: 1812943

Sample ID: WT-Craft-12-26

Lab ID: 1812943-01

Collection Date: 12/26/2018 07:20 AM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		1.88	µg/m3	1	12/30/2018 03:17 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	12/30/2018 03:17 PM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	12/30/2018 03:17 PM
Trichloroethene	ND		1.07	µg/m3	1	12/30/2018 03:17 PM
Trichlorofluoromethane	ND		2.81	µg/m3	1	12/30/2018 03:17 PM
Vinyl acetate	ND		1.76	µg/m3	1	12/30/2018 03:17 PM
Vinyl chloride	ND		1.28	µg/m3	1	12/30/2018 03:17 PM
Surr: Bromofluorobenzene	102		60-140	%REC	1	12/30/2018 03:17 PM

Note:

ALS Environmental

Date: 11-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; Client ID 2024-90

Work Order: 1812943

Sample ID: WT-FH-12-26

Lab ID: 1812943-02

Collection Date: 12/26/2018 07:35 AM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: MRJ
1,1,1-Trichloroethane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,2-Dibromoethane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,2-Dichloroethane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,3-Butadiene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,4-Dichlorobenzene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
1,4-Dioxane	ND		1.0	ppbv	1	12/30/2018 04:01 PM
2-Butanone	ND		0.50	ppbv	1	12/30/2018 04:01 PM
2-Hexanone	ND		1.0	ppbv	1	12/30/2018 04:01 PM
2-Propanol	1.3		1.0	ppbv	1	12/30/2018 04:01 PM
4-Ethyltoluene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	12/30/2018 04:01 PM
Acetone	5.1		1.0	ppbv	1	12/30/2018 04:01 PM
Benzene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Benzyl chloride	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Bromodichloromethane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Bromoform	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Bromomethane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Carbon disulfide	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Carbon tetrachloride	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Chlorobenzene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Chloroethane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Chloroform	ND		0.20	ppbv	1	12/30/2018 04:01 PM
Chloromethane	0.71		0.50	ppbv	1	12/30/2018 04:01 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Cumene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Cyclohexane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Dibromochloromethane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Dichlorodifluoromethane	0.66		0.50	ppbv	1	12/30/2018 04:01 PM

Note:

ALS Environmental

Date: 11-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; Client ID 2024-90

Work Order: 1812943

Sample ID: WT-FH-12-26

Lab ID: 1812943-02

Collection Date: 12/26/2018 07:35 AM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Ethylbenzene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Freon 113	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Freon 114	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Heptane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Hexachlorobutadiene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Hexane	0.55		0.50	ppbv	1	12/30/2018 04:01 PM
m,p-Xylene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Methylene chloride	ND		1.0	ppbv	1	12/30/2018 04:01 PM
MTBE	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Naphthalene	ND		0.20	ppbv	1	12/30/2018 04:01 PM
o-Xylene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Propene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Styrene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Tetrachloroethene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Tetrahydrofuran	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Toluene	0.64		0.50	ppbv	1	12/30/2018 04:01 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Trichloroethene	ND		0.20	ppbv	1	12/30/2018 04:01 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Vinyl acetate	ND		0.50	ppbv	1	12/30/2018 04:01 PM
Vinyl chloride	ND		0.50	ppbv	1	12/30/2018 04:01 PM
<i>Surr: Bromofluorobenzene</i>	<i>103</i>		<i>60-140</i>	<i>%REC</i>	1	12/30/2018 04:01 PM

TO-15 BY GC/MS

ETO-15

Analyst: MRJ

1,1,1-Trichloroethane	ND		2.73	µg/m3	1	12/30/2018 04:01 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	12/30/2018 04:01 PM
1,1,2-Trichloroethane	ND		2.73	µg/m3	1	12/30/2018 04:01 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	12/30/2018 04:01 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	12/30/2018 04:01 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	12/30/2018 04:01 PM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	12/30/2018 04:01 PM
1,2-Dibromoethane	ND		3.84	µg/m3	1	12/30/2018 04:01 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	12/30/2018 04:01 PM
1,2-Dichloroethane	ND		2.02	µg/m3	1	12/30/2018 04:01 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	12/30/2018 04:01 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	12/30/2018 04:01 PM
1,3-Butadiene	ND		1.11	µg/m3	1	12/30/2018 04:01 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	12/30/2018 04:01 PM
1,4-Dichlorobenzene	ND		3.01	µg/m3	1	12/30/2018 04:01 PM

Note:

ALS Environmental

Date: 11-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; Client ID 2024-90

Work Order: 1812943

Sample ID: WT-FH-12-26

Lab ID: 1812943-02

Collection Date: 12/26/2018 07:35 AM

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		3.60	µg/m3	1	12/30/2018 04:01 PM
2-Butanone	ND		1.47	µg/m3	1	12/30/2018 04:01 PM
2-Hexanone	ND		4.10	µg/m3	1	12/30/2018 04:01 PM
2-Propanol	3.24		2.46	µg/m3	1	12/30/2018 04:01 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	12/30/2018 04:01 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	12/30/2018 04:01 PM
Acetone	12.1		2.38	µg/m3	1	12/30/2018 04:01 PM
Benzene	ND		1.60	µg/m3	1	12/30/2018 04:01 PM
Benzyl chloride	ND		2.59	µg/m3	1	12/30/2018 04:01 PM
Bromodichloromethane	ND		3.35	µg/m3	1	12/30/2018 04:01 PM
Bromoform	ND		5.17	µg/m3	1	12/30/2018 04:01 PM
Bromomethane	ND		1.94	µg/m3	1	12/30/2018 04:01 PM
Carbon disulfide	ND		1.56	µg/m3	1	12/30/2018 04:01 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	12/30/2018 04:01 PM
Chlorobenzene	ND		2.30	µg/m3	1	12/30/2018 04:01 PM
Chloroethane	ND		1.32	µg/m3	1	12/30/2018 04:01 PM
Chloroform	ND		0.976	µg/m3	1	12/30/2018 04:01 PM
Chloromethane	1.47		1.03	µg/m3	1	12/30/2018 04:01 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	12/30/2018 04:01 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	12/30/2018 04:01 PM
Cumene	ND		2.46	µg/m3	1	12/30/2018 04:01 PM
Cyclohexane	ND		1.72	µg/m3	1	12/30/2018 04:01 PM
Dibromochloromethane	ND		4.26	µg/m3	1	12/30/2018 04:01 PM
Dichlorodifluoromethane	3.26		2.47	µg/m3	1	12/30/2018 04:01 PM
Ethyl acetate	ND		1.80	µg/m3	1	12/30/2018 04:01 PM
Ethylbenzene	ND		2.17	µg/m3	1	12/30/2018 04:01 PM
Freon 113	ND		3.83	µg/m3	1	12/30/2018 04:01 PM
Freon 114	ND		3.50	µg/m3	1	12/30/2018 04:01 PM
Heptane	ND		2.05	µg/m3	1	12/30/2018 04:01 PM
Hexachlorobutadiene	ND		5.33	µg/m3	1	12/30/2018 04:01 PM
Hexane	1.94		1.76	µg/m3	1	12/30/2018 04:01 PM
m,p-Xylene	ND		2.17	µg/m3	1	12/30/2018 04:01 PM
Methylene chloride	ND		3.47	µg/m3	1	12/30/2018 04:01 PM
MTBE	ND		1.80	µg/m3	1	12/30/2018 04:01 PM
Naphthalene	ND		1.05	µg/m3	1	12/30/2018 04:01 PM
o-Xylene	ND		2.17	µg/m3	1	12/30/2018 04:01 PM
Propene	ND		0.861	µg/m3	1	12/30/2018 04:01 PM
Styrene	ND		2.13	µg/m3	1	12/30/2018 04:01 PM
Tetrachloroethene	ND		3.39	µg/m3	1	12/30/2018 04:01 PM
Tetrahydrofuran	ND		1.47	µg/m3	1	12/30/2018 04:01 PM

Note:

ALS Environmental

Date: 11-Jan-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace; Client ID 2024-90

Sample ID: WT-FH-12-26

Collection Date: 12/26/2018 07:35 AM

Work Order: 1812943

Lab ID: 1812943-02

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	2.41		1.88	µg/m3	1	12/30/2018 04:01 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	12/30/2018 04:01 PM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	12/30/2018 04:01 PM
Trichloroethene	ND		1.07	µg/m3	1	12/30/2018 04:01 PM
Trichlorofluoromethane	ND		2.81	µg/m3	1	12/30/2018 04:01 PM
Vinyl acetate	ND		1.76	µg/m3	1	12/30/2018 04:01 PM
Vinyl chloride	ND		1.28	µg/m3	1	12/30/2018 04:01 PM
Surr: Bromofluorobenzene	103		60-140	%REC	1	12/30/2018 04:01 PM

Note:

ALS Environmental

Date: 11-Jan-19

Client: Southwest Ohio Air Quality Agency
Work Order: 1812943
Project: Winton Terrace; Client ID 2024-90

QC BATCH REPORT

Batch ID: **R160241** Instrument ID: **VMS4** Method: **ETO-15**

mbk		Sample ID: MBLK-R160241			Units: ppbv		Analysis Date: 12/30/2018 12:20 PM			
Client ID:		Run ID: VMS4_181230A			SeqNo: 1896446		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.50								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.50								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.50								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.50								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.50								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	0.50								
2-Hexanone	ND	1.0								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.50								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.20								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Southwest Ohio Air Quality Agency

Work Order: 1812943

Project: Winton Terrace; Client ID 2024-90

QC BATCH REPORT

Batch ID: R160241	Instrument ID: VMS4	Method: ETO-15					
Freon 113	ND	0.50					
Freon 114	ND	0.50					
Heptane	ND	0.50					
Hexachlorobutadiene	ND	0.50					
Hexane	ND	0.50					
m,p-Xylene	ND	0.50					
Methylene chloride	ND	1.0					
MTBE	ND	0.50					
Naphthalene	ND	0.20					
o-Xylene	ND	0.50					
Propene	ND	0.50					
Styrene	ND	0.50					
Tetrachloroethene	ND	0.50					
Tetrahydrofuran	ND	0.50					
Toluene	ND	0.50					
trans-1,2-Dichloroethene	ND	0.50					
trans-1,3-Dichloropropene	ND	0.50					
Trichloroethene	ND	0.20					
Trichlorofluoromethane	ND	0.50					
Vinyl acetate	ND	0.50					
Vinyl chloride	ND	0.50					
<i>Surr: Bromofluorobenzene</i>	9.34	0	10	0	93.4	60-140	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Southwest Ohio Air Quality Agency
 Work Order: 1812943
 Project: Winton Terrace; Client ID 2024-90

QC BATCH REPORT

Batch ID: R160241 Instrument ID: VMS4 Method: ETO-15

ics		Sample ID: LCS-R160241			Units: ppbv		Analysis Date: 12/30/2018 11:36 AM			
Client ID:		Run ID: VMS4_181230A			SeqNo: 1896445		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	10.33	0.50	10	0	103	58.8-163	0			
1,1,2,2-Tetrachloroethane	10.21	0.50	10	0	102	60-140	0			
1,1,2-Trichloroethane	10.05	0.50	10	0	100	60-140	0			
1,1-Dichloroethane	9.69	0.50	10	0	96.9	60-140	0			
1,1-Dichloroethene	9.92	0.50	10	0	99.2	60-140	0			
1,2,4-Trichlorobenzene	10	0.50	10	0	100	49.3-150	0			
1,2,4-Trimethylbenzene	11.08	0.50	10	0	111	50.1-162	0			
1,2-Dibromoethane	10.32	0.50	10	0	103	60-140	0			
1,2-Dichlorobenzene	11.05	0.50	10	0	110	41.9-141	0			
1,2-Dichloroethane	9.96	0.50	10	0	99.6	60-140	0			
1,2-Dichloropropane	9.53	0.50	10	0	95.3	60-140	0			
1,3,5-Trimethylbenzene	10.74	0.50	10	0	107	60-140	0			
1,3-Butadiene	10.77	0.50	10	0	108	50.6-140	0			
1,3-Dichlorobenzene	11	0.50	10	0	110	60-140	0			
1,4-Dichlorobenzene	11	0.50	10	0	110	55.1-145	0			
1,4-Dioxane	9.99	1.0	10	0	99.9	60-140	0			
2-Butanone	10.1	0.50	10	0	101	60-140	0			
2-Hexanone	10.18	1.0	10	0	102	56.2-162	0			
2-Propanol	9.29	1.0	10	0	92.9	60-140	0			
4-Ethyltoluene	11.21	0.50	10	0	112	60-140	0			
4-Methyl-2-pentanone	10.03	1.0	10	0	100	60-140	0			
Acetone	9.49	1.0	10	0	94.9	60-140	0			
Benzene	9.49	0.50	10	0	94.9	60-140	0			
Benzyl chloride	11.23	0.50	10	0	112	31.9-174	0			
Bromodichloromethane	10.35	0.50	10	0	104	60-140	0			
Bromoform	11.2	0.50	10	0	112	60-140	0			
Bromomethane	10.24	0.50	10	0	102	60-140	0			
Carbon disulfide	9.68	0.50	10	0	96.8	60-140	0			
Carbon tetrachloride	10.5	0.50	10	0	105	60-140	0			
Chlorobenzene	10.01	0.50	10	0	100	60-140	0			
Chloroethane	9.44	0.50	10	0	94.4	60-140	0			
Chloroform	10.09	0.20	10	0	101	60-140	0			
Chloromethane	10.6	0.50	10	0	106	60-140	0			
cis-1,2-Dichloroethene	9.93	0.50	10	0	99.3	60-140	0			
cis-1,3-Dichloropropene	10.14	0.50	10	0	101	60-140	0			
Cumene	10.69	0.50	10	0	107	60-140	0			
Cyclohexane	9.84	0.50	10	0	98.4	60-140	0			
Dibromochloromethane	10.76	0.50	10	0	108	60-140	0			
Dichlorodifluoromethane	10.92	0.50	10	0	109	60-140	0			
Ethyl acetate	10.16	0.50	10	0	102	60-140	0			
Ethylbenzene	10.27	0.50	10	0	103	60-140	0			
Freon 113	10.03	0.50	10	0	100	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Southwest Ohio Air Quality Agency

Work Order: 1812943

Project: Winton Terrace; Client ID 2024-90

QC BATCH REPORT

Batch ID: R160241	Instrument ID: VMS4	Method: ETO-15					
Freon 114	10.71	0.50	10	0	107	60-140	0
Heptane	9.44	0.50	10	0	94.4	60-140	0
Hexachlorobutadiene	11.18	0.50	10	0	112	60-140	0
Hexane	9.58	0.50	10	0	95.8	60-140	0
m,p-Xylene	20.82	0.50	20	0	104	60-140	0
Methylene chloride	8.63	1.0	10	0	86.3	60-140	0
MTBE	10.01	0.50	10	0	100	60.8-151	0
Naphthalene	9.92	0.20	10	0	99.2	53.1-152	0
o-Xylene	10.38	0.50	10	0	104	60-140	0
Propene	11	0.50	10	0	110	34.4-139	0
Styrene	10.58	0.50	10	0	106	60-140	0
Tetrachloroethene	10.54	0.50	10	0	105	60-140	0
Tetrahydrofuran	8.87	0.50	10	0	88.7	60-140	0
Toluene	10.07	0.50	10	0	101	60-140	0
trans-1,2-Dichloroethene	9.97	0.50	10	0	99.7	60-140	0
trans-1,3-Dichloropropene	10.15	0.50	10	0	102	60-140	0
Trichloroethene	10.05	0.20	10	0	100	60-140	0
Trichlorofluoromethane	10.56	0.50	10	0	106	60-140	0
Vinyl acetate	10.35	0.50	10	0	104	48.4-145	0
Vinyl chloride	10.62	0.50	10	0	106	60-140	0
Surr: Bromofluorobenzene	10.06	0	10	0	101	60-140	0

The following samples were analyzed in this batch:

1812943-01A	1812943-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace; Client ID 2024-90
WorkOrder: 1812943

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/m ³	
ppbv	

Sample Receipt Checklist

Client Name: **SOUTHWESTOH-CINCINNATI**

Date/Time Received: **27-Dec-18 10:38**

Work Order: **1812943**

Received by: **SNH**

Checklist completed by: Sarah Montgomery 27-Dec-18
eSignature Date

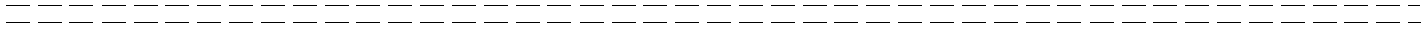
Reviewed by: Rob Nieman 28-Dec-18
eSignature Date

Matrices:

Carrier name: Client

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text"/> <input type="text"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:



Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: