



09-Aug-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

Work Order: **19071135**

Dear Kerri,

ALS Environmental received 2 samples on 26-Jul-2019 09:40 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
Work Order: 19071135

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>
19071135-01	WTFH 7-25-19	Air		7/26/2019	7/26/2019 09:40	<input type="checkbox"/>
19071135-02	WTCraft 7-26-19	Air		7/26/2019	7/26/2019 09:40	<input type="checkbox"/>

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Work Order: 19071135

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: 09-Aug-19

Client: Southwest Ohio Air Quality Agency
 Project: Winton Terrace
 Sample ID: WTFH 7-25-19
 Collection Date: 7/26/2019

Work Order: 19071135
 Lab ID: 19071135-01
 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	8/2/2019 07:10 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,2-Dibromoethane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,2-Dichloroethane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,3-Butadiene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,4-Dichlorobenzene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
1,4-Dioxane	ND		1.0	ppbv	1	8/2/2019 07:10 PM
2-Butanone	ND		0.50	ppbv	1	8/2/2019 07:10 PM
2-Hexanone	ND		1.0	ppbv	1	8/2/2019 07:10 PM
2-Propanol	2.4		1.0	ppbv	1	8/2/2019 07:10 PM
4-Ethyltoluene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	8/2/2019 07:10 PM
Acetone	6.5		1.0	ppbv	1	8/2/2019 07:10 PM
Benzene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Benzyl chloride	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Bromodichloromethane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Bromoform	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Bromomethane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Carbon disulfide	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Carbon tetrachloride	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Chlorobenzene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Chloroethane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Chloroform	ND		0.20	ppbv	1	8/2/2019 07:10 PM
Chloromethane	0.56		0.50	ppbv	1	8/2/2019 07:10 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Cumene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Cyclohexane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Dibromochloromethane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Dichlorodifluoromethane	0.54		0.50	ppbv	1	8/2/2019 07:10 PM

Note:

ALS Environmental

Date: 09-Aug-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace

Work Order: 19071135

Sample ID: WTFH 7-25-19

Lab ID: 19071135-01

Collection Date: 7/26/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Ethylbenzene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Freon 113	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Freon 114	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Heptane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Hexachlorobutadiene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Hexane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
m,p-Xylene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Methylene chloride	ND		2.0	ppbv	1	8/2/2019 07:10 PM
MTBE	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Naphthalene	ND		0.20	ppbv	1	8/2/2019 07:10 PM
o-Xylene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Propene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Styrene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Tetrachloroethene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Tetrahydrofuran	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Toluene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Trichloroethene	ND		0.20	ppbv	1	8/2/2019 07:10 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Vinyl acetate	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Vinyl chloride	ND		0.50	ppbv	1	8/2/2019 07:10 PM
Surr: Bromofluorobenzene	103		60-140	%REC	1	8/2/2019 07:10 PM

TO-15 BY GC/MS

ETO-15

Analyst: MRJ

1,1,1-Trichloroethane	ND		2.73	µg/m3	1	8/2/2019 07:10 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	8/2/2019 07:10 PM
1,1,2-Trichloroethane	ND		2.73	µg/m3	1	8/2/2019 07:10 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	8/2/2019 07:10 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	8/2/2019 07:10 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	8/2/2019 07:10 PM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	8/2/2019 07:10 PM
1,2-Dibromoethane	ND		3.84	µg/m3	1	8/2/2019 07:10 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	8/2/2019 07:10 PM
1,2-Dichloroethane	ND		2.02	µg/m3	1	8/2/2019 07:10 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	8/2/2019 07:10 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	8/2/2019 07:10 PM
1,3-Butadiene	ND		1.11	µg/m3	1	8/2/2019 07:10 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	8/2/2019 07:10 PM
1,4-Dichlorobenzene	ND		3.01	µg/m3	1	8/2/2019 07:10 PM

Note:

ALS Environmental

Date: 09-Aug-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace

Work Order: 19071135

Sample ID: WTFH 7-25-19

Lab ID: 19071135-01

Collection Date: 7/26/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		3.60	µg/m3	1	8/2/2019 07:10 PM
2-Butanone	ND		1.47	µg/m3	1	8/2/2019 07:10 PM
2-Hexanone	ND		4.10	µg/m3	1	8/2/2019 07:10 PM
2-Propanol	6.02		2.46	µg/m3	1	8/2/2019 07:10 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	8/2/2019 07:10 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	8/2/2019 07:10 PM
Acetone	15.4		2.38	µg/m3	1	8/2/2019 07:10 PM
Benzene	ND		1.60	µg/m3	1	8/2/2019 07:10 PM
Benzyl chloride	ND		2.59	µg/m3	1	8/2/2019 07:10 PM
Bromodichloromethane	ND		3.35	µg/m3	1	8/2/2019 07:10 PM
Bromoform	ND		5.17	µg/m3	1	8/2/2019 07:10 PM
Bromomethane	ND		1.94	µg/m3	1	8/2/2019 07:10 PM
Carbon disulfide	ND		1.56	µg/m3	1	8/2/2019 07:10 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	8/2/2019 07:10 PM
Chlorobenzene	ND		2.30	µg/m3	1	8/2/2019 07:10 PM
Chloroethane	ND		1.32	µg/m3	1	8/2/2019 07:10 PM
Chloroform	ND		0.976	µg/m3	1	8/2/2019 07:10 PM
Chloromethane	1.16		1.03	µg/m3	1	8/2/2019 07:10 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	8/2/2019 07:10 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	8/2/2019 07:10 PM
Cumene	ND		2.46	µg/m3	1	8/2/2019 07:10 PM
Cyclohexane	ND		1.72	µg/m3	1	8/2/2019 07:10 PM
Dibromochloromethane	ND		4.26	µg/m3	1	8/2/2019 07:10 PM
Dichlorodifluoromethane	2.67		2.47	µg/m3	1	8/2/2019 07:10 PM
Ethyl acetate	ND		1.80	µg/m3	1	8/2/2019 07:10 PM
Ethylbenzene	ND		2.17	µg/m3	1	8/2/2019 07:10 PM
Freon 113	ND		3.83	µg/m3	1	8/2/2019 07:10 PM
Freon 114	ND		3.50	µg/m3	1	8/2/2019 07:10 PM
Heptane	ND		2.05	µg/m3	1	8/2/2019 07:10 PM
Hexachlorobutadiene	ND		5.33	µg/m3	1	8/2/2019 07:10 PM
Hexane	ND		1.76	µg/m3	1	8/2/2019 07:10 PM
m,p-Xylene	ND		2.17	µg/m3	1	8/2/2019 07:10 PM
Methylene chloride	ND		7.00	µg/m3	1	8/2/2019 07:10 PM
MTBE	ND		1.80	µg/m3	1	8/2/2019 07:10 PM
Naphthalene	ND		1.05	µg/m3	1	8/2/2019 07:10 PM
o-Xylene	ND		2.17	µg/m3	1	8/2/2019 07:10 PM
Propene	ND		0.861	µg/m3	1	8/2/2019 07:10 PM
Styrene	ND		2.13	µg/m3	1	8/2/2019 07:10 PM
Tetrachloroethene	ND		3.39	µg/m3	1	8/2/2019 07:10 PM
Tetrahydrofuran	ND		1.47	µg/m3	1	8/2/2019 07:10 PM

Note:

ALS Environmental

Date: 09-Aug-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace

Work Order: 19071135

Sample ID: WTFH 7-25-19

Lab ID: 19071135-01

Collection Date: 7/26/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		1.88	µg/m3	1	8/2/2019 07:10 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	8/2/2019 07:10 PM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	8/2/2019 07:10 PM
Trichloroethene	ND		1.07	µg/m3	1	8/2/2019 07:10 PM
Trichlorofluoromethane	ND		2.81	µg/m3	1	8/2/2019 07:10 PM
Vinyl acetate	ND		1.76	µg/m3	1	8/2/2019 07:10 PM
Vinyl chloride	ND		1.28	µg/m3	1	8/2/2019 07:10 PM
Surr: Bromofluorobenzene	103		60-140	%REC	1	8/2/2019 07:10 PM

Note:

ALS Environmental

Date: 09-Aug-19

Client: Southwest Ohio Air Quality Agency
 Project: Winton Terrace
 Sample ID: WTCraft 7-26-19
 Collection Date: 7/26/2019

Work Order: 19071135
 Lab ID: 19071135-02
 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	8/2/2019 07:54 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,2-Dibromoethane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,2-Dichloroethane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,3-Butadiene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,4-Dichlorobenzene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
1,4-Dioxane	ND		1.0	ppbv	1	8/2/2019 07:54 PM
2-Butanone	ND		0.50	ppbv	1	8/2/2019 07:54 PM
2-Hexanone	ND		1.0	ppbv	1	8/2/2019 07:54 PM
2-Propanol	1.2		1.0	ppbv	1	8/2/2019 07:54 PM
4-Ethyltoluene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	8/2/2019 07:54 PM
Acetone	3.3		1.0	ppbv	1	8/2/2019 07:54 PM
Benzene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Benzyl chloride	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Bromodichloromethane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Bromoform	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Bromomethane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Carbon disulfide	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Carbon tetrachloride	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Chlorobenzene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Chloroethane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Chloroform	0.27		0.20	ppbv	1	8/2/2019 07:54 PM
Chloromethane	0.51		0.50	ppbv	1	8/2/2019 07:54 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Cumene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Cyclohexane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Dibromochloromethane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Dichlorodifluoromethane	0.54		0.50	ppbv	1	8/2/2019 07:54 PM

Note:

ALS Environmental

Date: 09-Aug-19

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Sample ID: WTCraft 7-26-19
Collection Date: 7/26/2019

Work Order: 19071135
Lab ID: 19071135-02
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Ethylbenzene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Freon 113	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Freon 114	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Heptane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Hexachlorobutadiene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Hexane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
m,p-Xylene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Methylene chloride	ND		2.0	ppbv	1	8/2/2019 07:54 PM
MTBE	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Naphthalene	ND		0.20	ppbv	1	8/2/2019 07:54 PM
o-Xylene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Propene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Styrene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Tetrachloroethene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Tetrahydrofuran	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Toluene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Trichloroethene	ND		0.20	ppbv	1	8/2/2019 07:54 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Vinyl acetate	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Vinyl chloride	ND		0.50	ppbv	1	8/2/2019 07:54 PM
Surr: Bromofluorobenzene	105		60-140	%REC	1	8/2/2019 07:54 PM

TO-15 BY GC/MS

ETO-15

Analyst: MRJ

1,1,1-Trichloroethane	ND		2.73	µg/m3	1	8/2/2019 07:54 PM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	8/2/2019 07:54 PM
1,1,2-Trichloroethane	ND		2.73	µg/m3	1	8/2/2019 07:54 PM
1,1-Dichloroethane	ND		2.02	µg/m3	1	8/2/2019 07:54 PM
1,1-Dichloroethene	ND		1.98	µg/m3	1	8/2/2019 07:54 PM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	8/2/2019 07:54 PM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	8/2/2019 07:54 PM
1,2-Dibromoethane	ND		3.84	µg/m3	1	8/2/2019 07:54 PM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	8/2/2019 07:54 PM
1,2-Dichloroethane	ND		2.02	µg/m3	1	8/2/2019 07:54 PM
1,2-Dichloropropane	ND		2.31	µg/m3	1	8/2/2019 07:54 PM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	8/2/2019 07:54 PM
1,3-Butadiene	ND		1.11	µg/m3	1	8/2/2019 07:54 PM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	8/2/2019 07:54 PM
1,4-Dichlorobenzene	ND		3.01	µg/m3	1	8/2/2019 07:54 PM

Note:

ALS Environmental

Date: 09-Aug-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace

Work Order: 19071135

Sample ID: WTCraft 7-26-19

Lab ID: 19071135-02

Collection Date: 7/26/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		3.60	µg/m3	1	8/2/2019 07:54 PM
2-Butanone	ND		1.47	µg/m3	1	8/2/2019 07:54 PM
2-Hexanone	ND		4.10	µg/m3	1	8/2/2019 07:54 PM
2-Propanol	2.97		2.46	µg/m3	1	8/2/2019 07:54 PM
4-Ethyltoluene	ND		2.46	µg/m3	1	8/2/2019 07:54 PM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	8/2/2019 07:54 PM
Acetone	7.93		2.38	µg/m3	1	8/2/2019 07:54 PM
Benzene	ND		1.60	µg/m3	1	8/2/2019 07:54 PM
Benzyl chloride	ND		2.59	µg/m3	1	8/2/2019 07:54 PM
Bromodichloromethane	ND		3.35	µg/m3	1	8/2/2019 07:54 PM
Bromoform	ND		5.17	µg/m3	1	8/2/2019 07:54 PM
Bromomethane	ND		1.94	µg/m3	1	8/2/2019 07:54 PM
Carbon disulfide	ND		1.56	µg/m3	1	8/2/2019 07:54 PM
Carbon tetrachloride	ND		3.15	µg/m3	1	8/2/2019 07:54 PM
Chlorobenzene	ND		2.30	µg/m3	1	8/2/2019 07:54 PM
Chloroethane	ND		1.32	µg/m3	1	8/2/2019 07:54 PM
Chloroform	1.32		0.976	µg/m3	1	8/2/2019 07:54 PM
Chloromethane	1.05		1.03	µg/m3	1	8/2/2019 07:54 PM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	8/2/2019 07:54 PM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	8/2/2019 07:54 PM
Cumene	ND		2.46	µg/m3	1	8/2/2019 07:54 PM
Cyclohexane	ND		1.72	µg/m3	1	8/2/2019 07:54 PM
Dibromochloromethane	ND		4.26	µg/m3	1	8/2/2019 07:54 PM
Dichlorodifluoromethane	2.67		2.47	µg/m3	1	8/2/2019 07:54 PM
Ethyl acetate	ND		1.80	µg/m3	1	8/2/2019 07:54 PM
Ethylbenzene	ND		2.17	µg/m3	1	8/2/2019 07:54 PM
Freon 113	ND		3.83	µg/m3	1	8/2/2019 07:54 PM
Freon 114	ND		3.50	µg/m3	1	8/2/2019 07:54 PM
Heptane	ND		2.05	µg/m3	1	8/2/2019 07:54 PM
Hexachlorobutadiene	ND		5.33	µg/m3	1	8/2/2019 07:54 PM
Hexane	ND		1.76	µg/m3	1	8/2/2019 07:54 PM
m,p-Xylene	ND		2.17	µg/m3	1	8/2/2019 07:54 PM
Methylene chloride	ND		7.00	µg/m3	1	8/2/2019 07:54 PM
MTBE	ND		1.80	µg/m3	1	8/2/2019 07:54 PM
Naphthalene	ND		1.05	µg/m3	1	8/2/2019 07:54 PM
o-Xylene	ND		2.17	µg/m3	1	8/2/2019 07:54 PM
Propene	ND		0.861	µg/m3	1	8/2/2019 07:54 PM
Styrene	ND		2.13	µg/m3	1	8/2/2019 07:54 PM
Tetrachloroethene	ND		3.39	µg/m3	1	8/2/2019 07:54 PM
Tetrahydrofuran	ND		1.47	µg/m3	1	8/2/2019 07:54 PM

Note:

ALS Environmental

Date: 09-Aug-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace

Work Order: 19071135

Sample ID: WTCraft 7-26-19

Lab ID: 19071135-02

Collection Date: 7/26/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		1.88	µg/m3	1	8/2/2019 07:54 PM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	8/2/2019 07:54 PM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	8/2/2019 07:54 PM
Trichloroethene	ND		1.07	µg/m3	1	8/2/2019 07:54 PM
Trichlorofluoromethane	ND		2.81	µg/m3	1	8/2/2019 07:54 PM
Vinyl acetate	ND		1.76	µg/m3	1	8/2/2019 07:54 PM
Vinyl chloride	ND		1.28	µg/m3	1	8/2/2019 07:54 PM
Surr: Bromofluorobenzene	105		60-140	%REC	1	8/2/2019 07:54 PM

Note:

ALS Environmental

Date: 09-Aug-19

Client: Southwest Ohio Air Quality Agency
Work Order: 19071135
Project: Winton Terrace

QC BATCH REPORT

Batch ID: **R168396** Instrument ID **VMS4** Method: **ETO-15**

mblk		Sample ID: MBLK-R168396			Units: ppbv		Analysis Date: 8/2/2019 01:57 PM			
Client ID:		Run ID: VMS4_190802A			SeqNo: 2061134		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: 19071135

Project: Winton Terrace

QC BATCH REPORT

Batch ID: R168396	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	2.0					
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>	9.88	0	10	0	98.8	60-140	0

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

Client: Southwest Ohio Air Quality Agency
 Work Order: 19071135
 Project: Winton Terrace

QC BATCH REPORT

Batch ID: **R168396** Instrument ID **VMS4** Method: **ETO-15**

ics		Sample ID: LCS-R168396			Units: ppbv			Analysis Date: 8/2/2019 01:13 PM		
Client ID:		Run ID: VMS4_190802A			SeqNo: 2061133			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	10.5	0.50	10	0	105	58.8-163	0			
1,1,2,2-Tetrachloroethane	9.43	0.50	10	0	94.3	60-140	0			
1,1,2-Trichloroethane	9.69	0.50	10	0	96.9	60-140	0			
1,1-Dichloroethane	9.97	0.50	10	0	99.7	60-140	0			
1,1-Dichloroethene	10.66	0.50	10	0	107	60-140	0			
1,2,4-Trichlorobenzene	9.14	0.50	10	0	91.4	49.3-150	0			
1,2,4-Trimethylbenzene	10.64	0.50	10	0	106	50.1-162	0			
1,2-Dibromoethane	10.01	0.50	10	0	100	60-140	0			
1,2-Dichlorobenzene	10.09	0.50	10	0	101	41.9-141	0			
1,2-Dichloroethane	10.68	0.50	10	0	107	60-140	0			
1,2-Dichloropropane	9.42	0.50	10	0	94.2	60-140	0			
1,3,5-Trimethylbenzene	10.56	0.50	10	0	106	60-140	0			
1,3-Butadiene	10.43	0.50	10	0	104	50.6-140	0			
1,3-Dichlorobenzene	10.3	0.50	10	0	103	60-140	0			
1,4-Dichlorobenzene	10.26	0.50	10	0	103	55.1-145	0			
1,4-Dioxane	9.99	1.0	10	0	99.9	60-140	0			
2-Butanone	9.9	0.50	10	0	99	60-140	0			
2-Hexanone	13	1.0	10	0	130	56.2-162	0			
2-Propanol	10.68	1.0	10	0	107	60-140	0			
4-Ethyltoluene	10.65	0.50	10	0	106	60-140	0			
4-Methyl-2-pentanone	11.38	1.0	10	0	114	60-140	0			
Acetone	9.93	1.0	10	0	99.3	60-140	0			
Benzene	9.28	0.50	10	0	92.8	60-140	0			
Benzyl chloride	11.28	0.50	10	0	113	31.9-174	0			
Bromodichloromethane	10.33	0.50	10	0	103	60-140	0			
Bromoform	13.91	0.50	10	0	139	60-140	0			
Bromomethane	11.67	0.50	10	0	117	60-140	0			
Carbon disulfide	9.72	0.50	10	0	97.2	60-140	0			
Carbon tetrachloride	10.83	0.50	10	0	108	60-140	0			
Chlorobenzene	9.57	0.50	10	0	95.7	60-140	0			
Chloroethane	10.68	0.50	10	0	107	60-140	0			
Chloroform	10.16	0.20	10	0	102	60-140	0			
Chloromethane	10.62	0.50	10	0	106	60-140	0			
cis-1,2-Dichloroethene	10.46	0.50	10	0	105	60-140	0			
cis-1,3-Dichloropropene	9.57	0.50	10	0	95.7	60-140	0			
Cumene	10.53	0.50	10	0	105	60-140	0			
Cyclohexane	9.26	0.50	10	0	92.6	60-140	0			
Dibromochloromethane	11.48	0.50	10	0	115	60-140	0			
Dichlorodifluoromethane	11.02	0.50	10	0	110	60-140	0			
Ethyl acetate	10.42	0.50	10	0	104	60-140	0			
Ethylbenzene	9.9	0.50	10	0	99	60-140	0			
Freon 113	10.44	0.50	10	0	104	60-140	0			

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

Client: Southwest Ohio Air Quality Agency
Work Order: 19071135
Project: Winton Terrace

QC BATCH REPORT

Batch ID: R168396	Instrument ID VMS4		Method: ETO-15					
Freon 114	10.89	0.50	10	0	109	60-140	0	
Heptane	10.41	0.50	10	0	104	60-140	0	
Hexachlorobutadiene	9.96	0.50	10	0	99.6	60-140	0	
Hexane	9.89	0.50	10	0	98.9	60-140	0	
m,p-Xylene	21.98	0.50	20	0	110	60-140	0	
Methylene chloride	9.61	2.0	10	0	96.1	60-140	0	
MTBE	10.45	0.50	10	0	104	60.8-151	0	
Naphthalene	9.39	0.20	10	0	93.9	53.1-152	0	
o-Xylene	10.58	0.50	10	0	106	60-140	0	
Propene	11.14	0.50	10	0	111	34.4-139	0	
Styrene	10.79	0.50	10	0	108	60-140	0	
Tetrachloroethene	10.61	0.50	10	0	106	60-140	0	
Tetrahydrofuran	10.68	0.50	10	0	107	60-140	0	
Toluene	9.61	0.50	10	0	96.1	60-140	0	
trans-1,2-Dichloroethene	9.81	0.50	10	0	98.1	60-140	0	
trans-1,3-Dichloropropene	9.6	0.50	10	0	96	60-140	0	
Trichloroethene	9.87	0.20	10	0	98.7	60-140	0	
Trichlorofluoromethane	10.73	0.50	10	0	107	60-140	0	
Vinyl acetate	11.41	0.50	10	0	114	48.4-145	0	
Vinyl chloride	11.46	0.50	10	0	115	60-140	0	
<i>Surr: Bromofluorobenzene</i>	10.5	0	10	0	105	60-140	0	

The following samples were analyzed in this batch:

19071135-01A	19071135-02A
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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
WorkOrder: 19071135

**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/m3	
ppbv	

Sample Receipt Checklist

Client Name: **SOUTHWESTOH-CINCINNATI**

Date/Time Received: **26-Jul-19 09:40**

Work Order: **19071135**

Received by: **JNW**

Checklist completed by J an Wilcox 26-Jul-19
eSignature Date

Reviewed by: Rob Nieman 29-Jul-19
eSignature Date

Matrices:

Carrier name: Client

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

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

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: