



03-Sep-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: **19081312**

Dear Kerri,

ALS Environmental received 2 samples on 26-Aug-2019 11:01 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 16.

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

ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Work Order: 19081312

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>
19081312-01	WTFH 8-23-19	Air		8/23/2019	8/26/2019 11:01	<input type="checkbox"/>
19081312-02	WTCraft 8-24-19	Air		8/24/2019	8/26/2019 11:01	<input type="checkbox"/>

Client: Southwest Ohio Air Quality Agency
Project: Winton Terrace
Work Order: 19081312

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: 03-Sep-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace

Work Order: 19081312

Sample ID: WTFH 8-23-19

Lab ID: 19081312-01

Collection Date: 8/23/2019

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	8/29/2019 02:40 AM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,1-Dichloroethane	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,1-Dichloroethene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,2-Dibromoethane	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,2-Dichloroethane	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,2-Dichloropropane	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,3-Butadiene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,4-Dichlorobenzene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
1,4-Dioxane	ND		1.0	ppbv	1	8/29/2019 02:40 AM
2-Butanone	ND		0.50	ppbv	1	8/29/2019 02:40 AM
2-Hexanone	ND		1.0	ppbv	1	8/29/2019 02:40 AM
2-Propanol	4.0		1.0	ppbv	1	8/29/2019 02:40 AM
4-Ethyltoluene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	8/29/2019 02:40 AM
Acetone	4.3		1.0	ppbv	1	8/29/2019 02:40 AM
Benzene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Benzyl chloride	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Bromodichloromethane	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Bromoform	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Bromomethane	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Carbon disulfide	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Carbon tetrachloride	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Chlorobenzene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Chloroethane	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Chloroform	ND		0.20	ppbv	1	8/29/2019 02:40 AM
Chloromethane	0.86		0.50	ppbv	1	8/29/2019 02:40 AM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Cumene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Cyclohexane	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Dibromochloromethane	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Dichlorodifluoromethane	0.67		0.50	ppbv	1	8/29/2019 02:40 AM

Note:

ALS Environmental

Date: 03-Sep-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace

Work Order: 19081312

Sample ID: WTFH 8-23-19

Lab ID: 19081312-01

Collection Date: 8/23/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Ethylbenzene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Freon 113	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Freon 114	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Heptane	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Hexachlorobutadiene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Hexane	0.56		0.50	ppbv	1	8/29/2019 02:40 AM
m,p-Xylene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Methylene chloride	ND		2.0	ppbv	1	8/29/2019 02:40 AM
MTBE	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Naphthalene	ND		0.20	ppbv	1	8/29/2019 02:40 AM
o-Xylene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Propene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Styrene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Tetrachloroethene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Tetrahydrofuran	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Toluene	0.61		0.50	ppbv	1	8/29/2019 02:40 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Trichloroethene	ND		0.20	ppbv	1	8/29/2019 02:40 AM
Trichlorofluoromethane	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Vinyl acetate	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Vinyl chloride	ND		0.50	ppbv	1	8/29/2019 02:40 AM
Surr: Bromofluorobenzene	104		60-140	%REC	1	8/29/2019 02:40 AM

TO-15 BY GC/MS

ETO-15

Analyst: MRJ

1,1,1-Trichloroethane	ND		2.73	µg/m3	1	8/29/2019 02:40 AM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	8/29/2019 02:40 AM
1,1,2-Trichloroethane	ND		2.73	µg/m3	1	8/29/2019 02:40 AM
1,1-Dichloroethane	ND		2.02	µg/m3	1	8/29/2019 02:40 AM
1,1-Dichloroethene	ND		1.98	µg/m3	1	8/29/2019 02:40 AM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	8/29/2019 02:40 AM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	8/29/2019 02:40 AM
1,2-Dibromoethane	ND		3.84	µg/m3	1	8/29/2019 02:40 AM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	8/29/2019 02:40 AM
1,2-Dichloroethane	ND		2.02	µg/m3	1	8/29/2019 02:40 AM
1,2-Dichloropropane	ND		2.31	µg/m3	1	8/29/2019 02:40 AM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	8/29/2019 02:40 AM
1,3-Butadiene	ND		1.11	µg/m3	1	8/29/2019 02:40 AM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	8/29/2019 02:40 AM
1,4-Dichlorobenzene	ND		3.01	µg/m3	1	8/29/2019 02:40 AM

Note:

ALS Environmental

Date: 03-Sep-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace

Work Order: 19081312

Sample ID: WTFH 8-23-19

Lab ID: 19081312-01

Collection Date: 8/23/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		3.60	µg/m3	1	8/29/2019 02:40 AM
2-Butanone	ND		1.47	µg/m3	1	8/29/2019 02:40 AM
2-Hexanone	ND		4.10	µg/m3	1	8/29/2019 02:40 AM
2-Propanol	9.95		2.46	µg/m3	1	8/29/2019 02:40 AM
4-Ethyltoluene	ND		2.46	µg/m3	1	8/29/2019 02:40 AM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	8/29/2019 02:40 AM
Acetone	10.2		2.38	µg/m3	1	8/29/2019 02:40 AM
Benzene	ND		1.60	µg/m3	1	8/29/2019 02:40 AM
Benzyl chloride	ND		2.59	µg/m3	1	8/29/2019 02:40 AM
Bromodichloromethane	ND		3.35	µg/m3	1	8/29/2019 02:40 AM
Bromoform	ND		5.17	µg/m3	1	8/29/2019 02:40 AM
Bromomethane	ND		1.94	µg/m3	1	8/29/2019 02:40 AM
Carbon disulfide	ND		1.56	µg/m3	1	8/29/2019 02:40 AM
Carbon tetrachloride	ND		3.15	µg/m3	1	8/29/2019 02:40 AM
Chlorobenzene	ND		2.30	µg/m3	1	8/29/2019 02:40 AM
Chloroethane	ND		1.32	µg/m3	1	8/29/2019 02:40 AM
Chloroform	ND		0.976	µg/m3	1	8/29/2019 02:40 AM
Chloromethane	1.78		1.03	µg/m3	1	8/29/2019 02:40 AM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	8/29/2019 02:40 AM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	8/29/2019 02:40 AM
Cumene	ND		2.46	µg/m3	1	8/29/2019 02:40 AM
Cyclohexane	ND		1.72	µg/m3	1	8/29/2019 02:40 AM
Dibromochloromethane	ND		4.26	µg/m3	1	8/29/2019 02:40 AM
Dichlorodifluoromethane	3.31		2.47	µg/m3	1	8/29/2019 02:40 AM
Ethyl acetate	ND		1.80	µg/m3	1	8/29/2019 02:40 AM
Ethylbenzene	ND		2.17	µg/m3	1	8/29/2019 02:40 AM
Freon 113	ND		3.83	µg/m3	1	8/29/2019 02:40 AM
Freon 114	ND		3.50	µg/m3	1	8/29/2019 02:40 AM
Heptane	ND		2.05	µg/m3	1	8/29/2019 02:40 AM
Hexachlorobutadiene	ND		5.33	µg/m3	1	8/29/2019 02:40 AM
Hexane	1.97		1.76	µg/m3	1	8/29/2019 02:40 AM
m,p-Xylene	ND		2.17	µg/m3	1	8/29/2019 02:40 AM
Methylene chloride	ND		7.00	µg/m3	1	8/29/2019 02:40 AM
MTBE	ND		1.80	µg/m3	1	8/29/2019 02:40 AM
Naphthalene	ND		1.05	µg/m3	1	8/29/2019 02:40 AM
o-Xylene	ND		2.17	µg/m3	1	8/29/2019 02:40 AM
Propene	ND		0.861	µg/m3	1	8/29/2019 02:40 AM
Styrene	ND		2.13	µg/m3	1	8/29/2019 02:40 AM
Tetrachloroethene	ND		3.39	µg/m3	1	8/29/2019 02:40 AM
Tetrahydrofuran	ND		1.47	µg/m3	1	8/29/2019 02:40 AM

Note:

ALS Environmental

Date: 03-Sep-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace

Work Order: 19081312

Sample ID: WTFH 8-23-19

Lab ID: 19081312-01

Collection Date: 8/23/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	2.30		1.88	µg/m3	1	8/29/2019 02:40 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	8/29/2019 02:40 AM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	8/29/2019 02:40 AM
Trichloroethene	ND		1.07	µg/m3	1	8/29/2019 02:40 AM
Trichlorofluoromethane	ND		2.81	µg/m3	1	8/29/2019 02:40 AM
Vinyl acetate	ND		1.76	µg/m3	1	8/29/2019 02:40 AM
Vinyl chloride	ND		1.28	µg/m3	1	8/29/2019 02:40 AM
Surr: Bromofluorobenzene	104		60-140	%REC	1	8/29/2019 02:40 AM

Note:

ALS Environmental

Date: 03-Sep-19

Client: Southwest Ohio Air Quality Agency
 Project: Winton Terrace
 Sample ID: WTCraft 8-24-19
 Collection Date: 8/24/2019

Work Order: 19081312
 Lab ID: 19081312-02
 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	8/29/2019 03:25 AM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,1-Dichloroethane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,1-Dichloroethene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,2-Dibromoethane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,2-Dichloroethane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,2-Dichloropropane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,3-Butadiene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,4-Dichlorobenzene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
1,4-Dioxane	ND		1.0	ppbv	1	8/29/2019 03:25 AM
2-Butanone	ND		0.50	ppbv	1	8/29/2019 03:25 AM
2-Hexanone	ND		1.0	ppbv	1	8/29/2019 03:25 AM
2-Propanol	ND		1.0	ppbv	1	8/29/2019 03:25 AM
4-Ethyltoluene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
4-Methyl-2-pentanone	ND		1.0	ppbv	1	8/29/2019 03:25 AM
Acetone	2.7		1.0	ppbv	1	8/29/2019 03:25 AM
Benzene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Benzyl chloride	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Bromodichloromethane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Bromoform	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Bromomethane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Carbon disulfide	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Carbon tetrachloride	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Chlorobenzene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Chloroethane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Chloroform	ND		0.20	ppbv	1	8/29/2019 03:25 AM
Chloromethane	0.54		0.50	ppbv	1	8/29/2019 03:25 AM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Cumene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Cyclohexane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Dibromochloromethane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Dichlorodifluoromethane	0.67		0.50	ppbv	1	8/29/2019 03:25 AM

Note:

ALS Environmental

Date: 03-Sep-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace

Work Order: 19081312

Sample ID: WTCraft 8-24-19

Lab ID: 19081312-02

Collection Date: 8/24/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Ethylbenzene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Freon 113	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Freon 114	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Heptane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Hexachlorobutadiene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Hexane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
m,p-Xylene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Methylene chloride	ND		2.0	ppbv	1	8/29/2019 03:25 AM
MTBE	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Naphthalene	ND		0.20	ppbv	1	8/29/2019 03:25 AM
o-Xylene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Propene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Styrene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Tetrachloroethene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Tetrahydrofuran	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Toluene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Trichloroethene	ND		0.20	ppbv	1	8/29/2019 03:25 AM
Trichlorofluoromethane	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Vinyl acetate	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Vinyl chloride	ND		0.50	ppbv	1	8/29/2019 03:25 AM
Surr: Bromofluorobenzene	104		60-140	%REC	1	8/29/2019 03:25 AM

TO-15 BY GC/MS

ETO-15

Analyst: MRJ

1,1,1-Trichloroethane	ND		2.73	µg/m3	1	8/29/2019 03:25 AM
1,1,2,2-Tetrachloroethane	ND		3.43	µg/m3	1	8/29/2019 03:25 AM
1,1,2-Trichloroethane	ND		2.73	µg/m3	1	8/29/2019 03:25 AM
1,1-Dichloroethane	ND		2.02	µg/m3	1	8/29/2019 03:25 AM
1,1-Dichloroethene	ND		1.98	µg/m3	1	8/29/2019 03:25 AM
1,2,4-Trichlorobenzene	ND		3.71	µg/m3	1	8/29/2019 03:25 AM
1,2,4-Trimethylbenzene	ND		2.46	µg/m3	1	8/29/2019 03:25 AM
1,2-Dibromoethane	ND		3.84	µg/m3	1	8/29/2019 03:25 AM
1,2-Dichlorobenzene	ND		3.01	µg/m3	1	8/29/2019 03:25 AM
1,2-Dichloroethane	ND		2.02	µg/m3	1	8/29/2019 03:25 AM
1,2-Dichloropropane	ND		2.31	µg/m3	1	8/29/2019 03:25 AM
1,3,5-Trimethylbenzene	ND		2.46	µg/m3	1	8/29/2019 03:25 AM
1,3-Butadiene	ND		1.11	µg/m3	1	8/29/2019 03:25 AM
1,3-Dichlorobenzene	ND		3.01	µg/m3	1	8/29/2019 03:25 AM
1,4-Dichlorobenzene	ND		3.01	µg/m3	1	8/29/2019 03:25 AM

Note:

ALS Environmental

Date: 03-Sep-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace

Work Order: 19081312

Sample ID: WTCraft 8-24-19

Lab ID: 19081312-02

Collection Date: 8/24/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,4-Dioxane	ND		3.60	µg/m3	1	8/29/2019 03:25 AM
2-Butanone	ND		1.47	µg/m3	1	8/29/2019 03:25 AM
2-Hexanone	ND		4.10	µg/m3	1	8/29/2019 03:25 AM
2-Propanol	ND		2.46	µg/m3	1	8/29/2019 03:25 AM
4-Ethyltoluene	ND		2.46	µg/m3	1	8/29/2019 03:25 AM
4-Methyl-2-pentanone	ND		4.10	µg/m3	1	8/29/2019 03:25 AM
Acetone	6.39		2.38	µg/m3	1	8/29/2019 03:25 AM
Benzene	ND		1.60	µg/m3	1	8/29/2019 03:25 AM
Benzyl chloride	ND		2.59	µg/m3	1	8/29/2019 03:25 AM
Bromodichloromethane	ND		3.35	µg/m3	1	8/29/2019 03:25 AM
Bromoform	ND		5.17	µg/m3	1	8/29/2019 03:25 AM
Bromomethane	ND		1.94	µg/m3	1	8/29/2019 03:25 AM
Carbon disulfide	ND		1.56	µg/m3	1	8/29/2019 03:25 AM
Carbon tetrachloride	ND		3.15	µg/m3	1	8/29/2019 03:25 AM
Chlorobenzene	ND		2.30	µg/m3	1	8/29/2019 03:25 AM
Chloroethane	ND		1.32	µg/m3	1	8/29/2019 03:25 AM
Chloroform	ND		0.976	µg/m3	1	8/29/2019 03:25 AM
Chloromethane	1.12		1.03	µg/m3	1	8/29/2019 03:25 AM
cis-1,2-Dichloroethene	ND		1.98	µg/m3	1	8/29/2019 03:25 AM
cis-1,3-Dichloropropene	ND		2.27	µg/m3	1	8/29/2019 03:25 AM
Cumene	ND		2.46	µg/m3	1	8/29/2019 03:25 AM
Cyclohexane	ND		1.72	µg/m3	1	8/29/2019 03:25 AM
Dibromochloromethane	ND		4.26	µg/m3	1	8/29/2019 03:25 AM
Dichlorodifluoromethane	3.31		2.47	µg/m3	1	8/29/2019 03:25 AM
Ethyl acetate	ND		1.80	µg/m3	1	8/29/2019 03:25 AM
Ethylbenzene	ND		2.17	µg/m3	1	8/29/2019 03:25 AM
Freon 113	ND		3.83	µg/m3	1	8/29/2019 03:25 AM
Freon 114	ND		3.50	µg/m3	1	8/29/2019 03:25 AM
Heptane	ND		2.05	µg/m3	1	8/29/2019 03:25 AM
Hexachlorobutadiene	ND		5.33	µg/m3	1	8/29/2019 03:25 AM
Hexane	ND		1.76	µg/m3	1	8/29/2019 03:25 AM
m,p-Xylene	ND		2.17	µg/m3	1	8/29/2019 03:25 AM
Methylene chloride	ND		7.00	µg/m3	1	8/29/2019 03:25 AM
MTBE	ND		1.80	µg/m3	1	8/29/2019 03:25 AM
Naphthalene	ND		1.05	µg/m3	1	8/29/2019 03:25 AM
o-Xylene	ND		2.17	µg/m3	1	8/29/2019 03:25 AM
Propene	ND		0.861	µg/m3	1	8/29/2019 03:25 AM
Styrene	ND		2.13	µg/m3	1	8/29/2019 03:25 AM
Tetrachloroethene	ND		3.39	µg/m3	1	8/29/2019 03:25 AM
Tetrahydrofuran	ND		1.47	µg/m3	1	8/29/2019 03:25 AM

Note:

ALS Environmental

Date: 03-Sep-19

Client: Southwest Ohio Air Quality Agency

Project: Winton Terrace

Work Order: 19081312

Sample ID: WTCraft 8-24-19

Lab ID: 19081312-02

Collection Date: 8/24/2019

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Toluene	ND		1.88	µg/m3	1	8/29/2019 03:25 AM
trans-1,2-Dichloroethene	ND		1.98	µg/m3	1	8/29/2019 03:25 AM
trans-1,3-Dichloropropene	ND		2.27	µg/m3	1	8/29/2019 03:25 AM
Trichloroethene	ND		1.07	µg/m3	1	8/29/2019 03:25 AM
Trichlorofluoromethane	ND		2.81	µg/m3	1	8/29/2019 03:25 AM
Vinyl acetate	ND		1.76	µg/m3	1	8/29/2019 03:25 AM
Vinyl chloride	ND		1.28	µg/m3	1	8/29/2019 03:25 AM
Surr: Bromofluorobenzene	104		60-140	%REC	1	8/29/2019 03:25 AM

Note:

ALS Environmental

Date: 03-Sep-19

Client: Southwest Ohio Air Quality Agency
Work Order: 19081312
Project: Winton Terrace

QC BATCH REPORT

Batch ID: **R169400** Instrument ID **VMS4** Method: **ETO-15**

mblk		Sample ID: MBLK-R169400			Units: ppbv		Analysis Date: 8/28/2019 02:46 PM			
Client ID:		Run ID: VMS4_190828A			SeqNo: 2082561		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: 19081312

Project: Winton Terrace

QC BATCH REPORT

Batch ID: R169400	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>	10.09	0	10	0	101	60-140	0	

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

Client: Southwest Ohio Air Quality Agency
 Work Order: 19081312
 Project: Winton Terrace

QC BATCH REPORT

Batch ID: **R169400** Instrument ID **VMS4** Method: **ETO-15**

ics		Sample ID: LCS-R169400			Units: ppbv		Analysis Date: 8/28/2019 02:02 PM			
Client ID:		Run ID: VMS4_190828A			SeqNo: 2082560		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	9.55	0.50	10	0	95.5	58.8-163	0			
1,1,2,2-Tetrachloroethane	8.59	0.50	10	0	85.9	60-140	0			
1,1,2-Trichloroethane	8.64	0.50	10	0	86.4	60-140	0			
1,1-Dichloroethane	8.52	0.50	10	0	85.2	60-140	0			
1,1-Dichloroethene	8.99	0.50	10	0	89.9	60-140	0			
1,2,4-Trichlorobenzene	7.16	0.50	10	0	71.6	49.3-150	0			
1,2,4-Trimethylbenzene	9.63	0.50	10	0	96.3	50.1-162	0			
1,2-Dibromoethane	8.95	0.50	10	0	89.5	60-140	0			
1,2-Dichlorobenzene	9.12	0.50	10	0	91.2	41.9-141	0			
1,2-Dichloroethane	9.68	0.50	10	0	96.8	60-140	0			
1,2-Dichloropropane	8.36	0.50	10	0	83.6	60-140	0			
1,3,5-Trimethylbenzene	9.51	0.50	10	0	95.1	60-140	0			
1,3-Butadiene	10.18	0.50	10	0	102	50.6-140	0			
1,3-Dichlorobenzene	9.15	0.50	10	0	91.5	60-140	0			
1,4-Dichlorobenzene	8.86	0.50	10	0	88.6	55.1-145	0			
1,4-Dioxane	8.62	1.0	10	0	86.2	60-140	0			
2-Butanone	8.39	0.50	10	0	83.9	60-140	0			
2-Hexanone	10.53	1.0	10	0	105	56.2-162	0			
2-Propanol	8.95	1.0	10	0	89.5	60-140	0			
4-Ethyltoluene	9.59	0.50	10	0	95.9	60-140	0			
4-Methyl-2-pentanone	10.24	1.0	10	0	102	60-140	0			
Acetone	8.93	1.0	10	0	89.3	60-140	0			
Benzene	7.9	0.50	10	0	79	60-140	0			
Benzyl chloride	9.77	0.50	10	0	97.7	31.9-174	0			
Bromodichloromethane	9.62	0.50	10	0	96.2	60-140	0			
Bromoform	12.4	0.50	10	0	124	60-140	0			
Bromomethane	11.16	0.50	10	0	112	60-140	0			
Carbon disulfide	7.94	0.50	10	0	79.4	60-140	0			
Carbon tetrachloride	9.91	0.50	10	0	99.1	60-140	0			
Chlorobenzene	8.38	0.50	10	0	83.8	60-140	0			
Chloroethane	7.86	0.50	10	0	78.6	60-140	0			
Chloroform	8.88	0.20	10	0	88.8	60-140	0			
Chloromethane	9.34	0.50	10	0	93.4	60-140	0			
cis-1,2-Dichloroethene	8.53	0.50	10	0	85.3	60-140	0			
cis-1,3-Dichloropropene	8.7	0.50	10	0	87	60-140	0			
Cumene	9.34	0.50	10	0	93.4	60-140	0			
Cyclohexane	8.03	0.50	10	0	80.3	60-140	0			
Dibromochloromethane	10.28	0.50	10	0	103	60-140	0			
Dichlorodifluoromethane	10.79	0.50	10	0	108	60-140	0			
Ethyl acetate	8.21	0.50	10	0	82.1	60-140	0			
Ethylbenzene	8.86	0.50	10	0	88.6	60-140	0			
Freon 113	8.58	0.50	10	0	85.8	60-140	0			

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

Client: Southwest Ohio Air Quality Agency

Work Order: 19081312

Project: Winton Terrace

QC BATCH REPORT

Batch ID: R169400	Instrument ID VMS4	Method: ETO-15					
Freon 114	9.5	0.50	10	0	95	60-140	0
Heptane	9.06	0.50	10	0	90.6	60-140	0
Hexachlorobutadiene	9.47	0.50	10	0	94.7	60-140	0
Hexane	8.31	0.50	10	0	83.1	60-140	0
m,p-Xylene	18.33	0.50	20	0	91.6	60-140	0
Methylene chloride	8.37	2.0	10	0	83.7	60-140	0
MTBE	8.73	0.50	10	0	87.3	60.8-151	0
Naphthalene	7.24	0.20	10	0	72.4	53.1-152	0
o-Xylene	9.11	0.50	10	0	91.1	60-140	0
Propene	12.33	0.50	10	0	123	34.4-139	0
Styrene	9.06	0.50	10	0	90.6	60-140	0
Tetrachloroethene	9.01	0.50	10	0	90.1	60-140	0
Tetrahydrofuran	8.7	0.50	10	0	87	60-140	0
Toluene	8.64	0.50	10	0	86.4	60-140	0
trans-1,2-Dichloroethene	7.96	0.50	10	0	79.6	60-140	0
trans-1,3-Dichloropropene	8.71	0.50	10	0	87.1	60-140	0
Trichloroethene	8.74	0.20	10	0	87.4	60-140	0
Trichlorofluoromethane	9.79	0.50	10	0	97.9	60-140	0
Vinyl acetate	9.06	0.50	10	0	90.6	48.4-145	0
Vinyl chloride	10.94	0.50	10	0	109	60-140	0
<i>Surr: Bromofluorobenzene</i>	10.53	0	10	0	105	60-140	0

The following samples were analyzed in this batch:

19081312-01A	19081312-02A
--------------	--------------

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

Sample Receipt Checklist

Client Name: **SOUTHWESTOH-CINCINNATI**

Date/Time Received: **26-Aug-19 11:01**

Work Order: **19081312**

Received by: **JNW**

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

Reviewed by: Rob Nieman 28-Aug-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: