



04-Aug-2017

Stephanie Madden
RAPCA / Combined Health District
117 S. Main Street
Dayton, OH 45422

Tel: (937) 225-5922
Fax: 937-225-3486

Re: Community Air Toxics Monitoring 2017; Project No.: 2017-1 Work Order: **1707900**

Dear Stephanie,

ALS Environmental received 2 samples on 31-Jul-2017 03:15 PM 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 8.

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

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

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

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Environmental 

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Client: RAPCA / Combined Health District
Project: Community Air Toxics Monitoring 2017; Project No.: 2017-
Work Order: 1707900

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>
1707900-01	Badge A-073017	Air		7/30/2017	7/31/2017 15:15	<input type="checkbox"/>
1707900-02	Badge B- 073017	Air		7/30/2017	7/31/2017 15:15	<input type="checkbox"/>

Client: RAPCA / Combined Health District
Project: Community Air Toxics Monitoring 2017; Project No.: 2017
Work Order: 1707900

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.

Client: RAPCA / Combined Health District
Project: Community Air Toxics Monitoring 2017; Project No.:

Work Order: 1707900

Analytical Results

Lab ID: 1707900-01A
Client Sample ID: Badge A-073017

Collection Date: 7/30/2017
Matrix: AIR

Analyses

ALDEHYDE(S) BY OSHA 1007 MOD.		Method: O1007	Time (Min): 1395	Analyst: JMB
Date Analyzed: 8/3/2017 11:09		Reporting Limit		
	µg/sample	µg/sample	ppm	
Acetaldehyde	ND	0.20	<0.0034	
Benzaldehyde	ND	0.20	<0.0023	
Butyraldehyde	ND	0.20	<0.0029	
Crotonaldehyde	ND	0.20	<0.0052	
Formaldehyde	ND	0.20	<0.0041	
Hexanaldehyde	ND	0.20	<0.0036	
Propionaldehyde	ND	0.20	<0.0043	

Lab ID: 1707900-02A
Client Sample ID: Badge B- 073017

Collection Date: 7/30/2017
Matrix: AIR

Analyses

ALDEHYDE(S) BY OSHA 1007 MOD.		Method: O1007	Time (Min): 1394	Analyst: JMB
Date Analyzed: 8/3/2017 11:09		Reporting Limit		
	µg/sample	µg/sample	ppm	
Acetaldehyde	ND	0.20	<0.0034	
Benzaldehyde	ND	0.20	<0.0023	
Butyraldehyde	ND	0.20	<0.0029	
Crotonaldehyde	ND	0.20	<0.0052	
Formaldehyde	ND	0.20	<0.0041	
Hexanaldehyde	ND	0.20	<0.0036	
Propionaldehyde	ND	0.20	<0.0043	

Note:

Client: RAPCA / Combined Health District

QC BATCH REPORT

Work Order: 1707900

Project: Community Air Toxics Monitoring 2017; Project No

Batch ID: 44759

Instrument ID: HPLC2

Method: O1007

MBLK		Sample ID: MBLK-44759-44759			Units: µg/sample		Analysis Date: 7/31/2017 09:11 PM			
Client ID:		Run ID: HPLC2_170731C			SeqNo: 1562078		Prep Date: 7/31/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	ND	0.20								
Benzaldehyde	ND	0.20								
Butyraldehyde	ND	0.20								
Crotonaldehyde	ND	0.20								
Formaldehyde	ND	0.20								
Hexanaldehyde	ND	0.20								
Propionaldehyde	ND	0.20								

MBLK		Sample ID: MBLK-44759-44759			Units: µg/sample		Analysis Date: 8/3/2017 11:09 AM			
Client ID:		Run ID: HPLC2_170803A			SeqNo: 1564955		Prep Date: 7/31/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	ND	0.20								
Benzaldehyde	ND	0.20								
Butyraldehyde	ND	0.20								
Crotonaldehyde	ND	0.20								
Formaldehyde	ND	0.20								
Hexanaldehyde	ND	0.20								
Propionaldehyde	ND	0.20								

LCS		Sample ID: LCS-44759-44759			Units: µg/sample		Analysis Date: 7/31/2017 09:11 PM			
Client ID:		Run ID: HPLC2_170731C			SeqNo: 1562079		Prep Date: 7/31/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	0.7192	0.20	0.75	0	95.9	70-130	0			
Benzaldehyde	0.7395	0.20	0.75	0	98.6	70-130	0			
Butyraldehyde	0.7416	0.20	0.75	0	98.9	70-130	0			
Crotonaldehyde	0.7457	0.20	0.75	0	99.4	70-130	0			
Formaldehyde	0.7349	0.20	0.75	0	98	70-130	0			
Hexanaldehyde	0.7354	0.20	0.75	0	98.1	70-130	0			
Propionaldehyde	0.7433	0.20	0.75	0	99.1	70-130	0			

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

Client: RAPCA / Combined Health District
 Work Order: 1707900
 Project: Community Air Toxics Monitoring 2017; Project No

QC BATCH REPORT

Batch ID: 44759 Instrument ID: HPLC2 Method: O1007

LCS		Sample ID: LCS-44759-44759			Units: µg/sample		Analysis Date: 8/3/2017 11:09 AM			
Client ID:		Run ID: HPLC2_170803A			SeqNo: 1564956		Prep Date: 7/31/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	0.7517	0.20	0.75	0	100	70-130	0			
Benzaldehyde	0.7578	0.20	0.75	0	101	70-130	0			
Butyraldehyde	0.7601	0.20	0.75	0	101	70-130	0			
Crotonaldehyde	0.7652	0.20	0.75	0	102	70-130	0			
Formaldehyde	0.7584	0.20	0.75	0	101	70-130	0			
Hexanaldehyde	0.7592	0.20	0.75	0	101	70-130	0			
Propionaldehyde	0.7603	0.20	0.75	0	101	70-130	0			

LCSD		Sample ID: LCSD-44759-44759			Units: µg/sample		Analysis Date: 7/31/2017 09:11 PM			
Client ID:		Run ID: HPLC2_170731C			SeqNo: 1562086		Prep Date: 7/31/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	0.723	0.20	0.75	0	96.4	70-130	0.7192	0.527	20	
Benzaldehyde	0.7577	0.20	0.75	0	101	70-130	0.7395	2.43	20	
Butyraldehyde	0.7421	0.20	0.75	0	98.9	70-130	0.7416	0.0674	20	
Crotonaldehyde	0.7454	0.20	0.75	0	99.4	70-130	0.7457	0.0402	20	
Formaldehyde	0.7367	0.20	0.75	0	98.2	70-130	0.7349	0.245	20	
Hexanaldehyde	0.7517	0.20	0.75	0	100	70-130	0.7354	2.19	20	
Propionaldehyde	0.7509	0.20	0.75	0	100	70-130	0.7433	1.02	20	

LCSD		Sample ID: LCSD-44759-44759			Units: µg/sample		Analysis Date: 8/3/2017 11:09 AM			
Client ID:		Run ID: HPLC2_170803A			SeqNo: 1564957		Prep Date: 7/31/2017		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetaldehyde	0.7562	0.20	0.75	0	101	70-130	0.7517	0.597	20	
Benzaldehyde	0.7639	0.20	0.75	0	102	70-130	0.7578	0.802	20	
Butyraldehyde	0.7221	0.20	0.75	0	96.3	70-130	0.7601	5.13	20	
Crotonaldehyde	0.7659	0.20	0.75	0	102	70-130	0.7652	0.0914	20	
Formaldehyde	0.7641	0.20	0.75	0	102	70-130	0.7584	0.749	20	
Hexanaldehyde	0.73	0.20	0.75	0	97.3	70-130	0.7592	3.92	20	
Propionaldehyde	0.7602	0.20	0.75	0	101	70-130	0.7603	0.0132	20	

The following samples were analyzed in this batch:

1707900-01A	1707900-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: RAPCA / Combined Health District
Project: Community Air Toxics Monitoring 2017; Project No.:
WorkOrder: 1707900

**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/sample	

Sample Receipt Checklist

Client Name: RAPCA-DAYTON

Date/Time Received: 31-Jul-17 15:15

Work Order: 1707900

Received by: SNH

Checklist completed by: Stephanie Harrington 31-Jul-17
eSignature Date

Reviewed by: Shawn Smythe 04-Aug-17
eSignature Date

Matrices:

Carrier name: Courier

- 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): 3.8

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: _____