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[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

July 20, 2017

Stephanie Madden  
RAPCA  
117 S Main Street  
Dayton, OH 45422

**RE: Community Air Toxics Monitoring 2017 / 2017-1**

Dear Stephanie:

Enclosed are the results of the samples submitted to our laboratory on July 17, 2017. For your reference, these analyses have been assigned our service request number P1703381.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

**ALS | Environmental**

By Kate Kaneko at 2:25 pm, 07/20/17

Kate Kaneko  
Project Manager



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Client: RAPCA  
Project: Community Air Toxics Monitoring 2017 / 2017-1

Service Request No: P1703381

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## CASE NARRATIVE

The samples were received intact under chain of custody on July 17, 2017 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

### Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP accreditation.

### Volatile Organic Compound Analysis

The samples were also analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The spike recovery of carbon disulfide in the Laboratory Control Sample (LCS) was outside the laboratory generated control criteria. The recovery error equates to a potential high bias. However, the recovery in question was within the method criteria, therefore, the data quality has not been significantly affected. No corrective action was taken.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

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*The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.*

*Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.*



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Arizona DHS	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx">http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm">http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm</a>	2016036
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1177034
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/oqa/">http://www.nj.gov/dep/oqa/</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-004
Pennsylvania DEP	<a href="http://www.depweb.state.pa.us/labs">http://www.depweb.state.pa.us/labs</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlabs.com/search-accredited-labs">http://www.pjlabs.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704413-17-8
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/environmental-lab-certification/">http://health.utah.gov/lab/environmental-lab-certification/</a>	CA01627201 6-6
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at [www.alsglobal.com](http://www.alsglobal.com), or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

# ALS ENVIRONMENTAL

## DETAIL SUMMARY REPORT

Client: RAPCA  
 Project ID: Community Air Toxics Monitoring 2017 / 2017-1

Service Request: P1703381

Date Received: 7/17/2017  
 Time Received: 09:30

ASTM D 5504-12 - Sulfur Can
TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	ASTM D 5504-12 - Sulfur Can	TO-15 - VOC Cans
Can A-071217	P1703381-001	Air	7/13/2017	08:11	AS00210	-2.67	3.65	X	X
Can B-071217	P1703381-002	Air	7/13/2017	08:30	AS00786	-5.33	3.48	X	X



# Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270

**Requested Turnaround Time in Business Days (Surcharges) please circle**  
 3 Day (50%)

ALS Project No. **P1703381**

<b>Company Name &amp; Address (Reporting Information)</b> Regional Air Pollution Control (RAPCA) 117 S. Main St. Dayton, OH 45422 Phone: 937-225-5922 Fax: 937-225-3486 Email Address for Result Reporting: <a href="mailto:smadden@rapca.org">smadden@rapca.org</a> and <a href="mailto:aro@rapca.org">aro@rapca.org</a>			<b>Project Name</b> Community Air Toxics Monitoring 2017 <b>Project Number</b> 2017-1 <b>P.O. # / Billing Information: PO# 702021</b> Public Health Dayton Montgomery County (PHDMC), Attn: Accounting 117 S. Main St. Dayton, OH 45422 <b>Sampler (Print &amp; Sign)</b> <i>Jason C. Simon</i>			<b>ALS Contact:</b> K. Kaneko <b>Analysis Method</b> ASTM 5504			Comments e.g. Actual Preservative or specific instructions
<b>Project Manager</b> Stephanie Madden Phone: 937-225-5922 Fax: 937-225-3486 Email Address for Result Reporting: <a href="mailto:smadden@rapca.org">smadden@rapca.org</a> and <a href="mailto:aro@rapca.org">aro@rapca.org</a>			<b>Flow Controller ID</b> (Bar code # - FC #) SFC00152 SFC00205			<b>Canister</b> End Pressure "Hg/psig -6 -12			
<b>Client Sample ID</b> Can A - 071217 Can B - 071217			<b>Canister ID</b> (Bar code # - AC, SC, etc.) AS00210 AS00786				<b>Sample Volume</b> 6L 6L		
<b>Laboratory ID Number</b> RAP037 RAP038			<b>Start Pressure</b> "Hg -28 -30			<b>Units</b> INTACT BROKEN ABSENT			
<b>Date</b> 7/12/17 - 0815 7/13/17 - 0811 7/12/17 - 0809 7/13/17 - 0811 0820			<b>Time</b> 0815 0811 0809 0811 0820				<b>Project Requirements</b> (MRLs, QAPP)		
<b>Relinquished by: (Signature)</b> <i>[Signature]</i>			<b>Received by: (Signature)</b> <i>[Signature]</i>			<b>Chain of Custody Seal: (Circle)</b> INTACT BROKEN ABSENT			
<b>Relinquished by: (Signature)</b> <i>[Signature]</i>			<b>Received by: (Signature)</b> <i>[Signature]</i>				<b>Date:</b> 7/17/17 <b>Time:</b> 0930		
<b>Relinquished by: (Signature)</b> <i>[Signature]</i>			<b>Received by: (Signature)</b> <i>[Signature]</i>			<b>Date:</b> 7/17/17 <b>Time:</b> 0930			
<b>Relinquished by: (Signature)</b> <i>[Signature]</i>			<b>Received by: (Signature)</b> <i>[Signature]</i>				<b>Date:</b> 7/17/17 <b>Time:</b> 0930		



# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** RAPCA  
**Client Sample ID:** Can A-071217  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703381  
 ALS Sample ID: P1703381-001

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 7890A/GC22/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00210

Date Collected: 7/13/17  
 Time Collected: 08:11  
 Date Received: 7/17/17  
 Date Analyzed: 7/17/17  
 Time Analyzed: 14:49  
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -2.67      Final Pressure (psig): 3.65

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	11	ND	7.7	
463-58-1	Carbonyl Sulfide	ND	19	ND	7.7	
74-93-1	Methyl Mercaptan	ND	15	ND	7.7	
75-08-1	Ethyl Mercaptan	ND	19	ND	7.7	
75-18-3	Dimethyl Sulfide	ND	19	ND	7.7	
75-15-0	Carbon Disulfide	ND	12	ND	3.8	
75-33-2	Isopropyl Mercaptan	ND	24	ND	7.7	
75-66-1	tert-Butyl Mercaptan	ND	28	ND	7.7	
107-03-9	n-Propyl Mercaptan	ND	24	ND	7.7	
624-89-5	Ethyl Methyl Sulfide	ND	24	ND	7.7	
110-02-1	Thiophene	ND	26	ND	7.7	
513-44-0	Isobutyl Mercaptan	ND	28	ND	7.7	
352-93-2	Diethyl Sulfide	ND	28	ND	7.7	
109-79-5	n-Butyl Mercaptan	ND	28	ND	7.7	
624-92-0	Dimethyl Disulfide	ND	15	ND	3.8	
616-44-4	3-Methylthiophene	ND	31	ND	7.7	
110-01-0	Tetrahydrothiophene	ND	28	ND	7.7	
638-02-8	2,5-Dimethylthiophene	ND	35	ND	7.7	
872-55-9	2-Ethylthiophene	ND	35	ND	7.7	
110-81-6	Diethyl Disulfide	ND	19	ND	3.8	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** RAPCA  
**Client Sample ID:** Can B-071217  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703381  
 ALS Sample ID: P1703381-002

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 7890A/GC22/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00786

Date Collected: 7/13/17  
 Time Collected: 08:30  
 Date Received: 7/17/17  
 Date Analyzed: 7/17/17  
 Time Analyzed: 15:35  
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -5.33      Final Pressure (psig): 3.48

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	14	ND	9.7	
463-58-1	Carbonyl Sulfide	ND	24	ND	9.7	
74-93-1	Methyl Mercaptan	ND	19	ND	9.7	
75-08-1	Ethyl Mercaptan	ND	25	ND	9.7	
75-18-3	Dimethyl Sulfide	ND	25	ND	9.7	
75-15-0	Carbon Disulfide	ND	15	ND	4.9	
75-33-2	Isopropyl Mercaptan	ND	30	ND	9.7	
75-66-1	tert-Butyl Mercaptan	ND	36	ND	9.7	
107-03-9	n-Propyl Mercaptan	ND	30	ND	9.7	
624-89-5	Ethyl Methyl Sulfide	ND	30	ND	9.7	
110-02-1	Thiophene	ND	33	ND	9.7	
513-44-0	Isobutyl Mercaptan	ND	36	ND	9.7	
352-93-2	Diethyl Sulfide	ND	36	ND	9.7	
109-79-5	n-Butyl Mercaptan	ND	36	ND	9.7	
624-92-0	Dimethyl Disulfide	ND	19	ND	4.9	
616-44-4	3-Methylthiophene	ND	39	ND	9.7	
110-01-0	Tetrahydrothiophene	ND	35	ND	9.7	
638-02-8	2,5-Dimethylthiophene	ND	44	ND	9.7	
872-55-9	2-Ethylthiophene	ND	44	ND	9.7	
110-81-6	Diethyl Disulfide	ND	24	ND	4.9	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.



# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** RAPCA  
**Client Sample ID:** Method Blank  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703381  
 ALS Sample ID: P170717-MB

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 7890A/GC22/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Time Collected: NA  
 Date Received: NA  
 Date Analyzed: 7/17/17  
 Time Analyzed: 07:52  
 Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	12	ND	5.0	
74-93-1	Methyl Mercaptan	ND	9.8	ND	5.0	
75-08-1	Ethyl Mercaptan	ND	13	ND	5.0	
75-18-3	Dimethyl Sulfide	ND	13	ND	5.0	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	16	ND	5.0	
75-66-1	tert-Butyl Mercaptan	ND	18	ND	5.0	
107-03-9	n-Propyl Mercaptan	ND	16	ND	5.0	
624-89-5	Ethyl Methyl Sulfide	ND	16	ND	5.0	
110-02-1	Thiophene	ND	17	ND	5.0	
513-44-0	Isobutyl Mercaptan	ND	18	ND	5.0	
352-93-2	Diethyl Sulfide	ND	18	ND	5.0	
109-79-5	n-Butyl Mercaptan	ND	18	ND	5.0	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	20	ND	5.0	
110-01-0	Tetrahydrothiophene	ND	18	ND	5.0	
638-02-8	2,5-Dimethylthiophene	ND	23	ND	5.0	
872-55-9	2-Ethylthiophene	ND	23	ND	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

**Client:** RAPCA  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703381  
ALS Sample ID: P170717-LCS

Test Code: ASTM D 5504-12  
Instrument ID: Agilent 7890A/GC22/SCD  
Analyst: Mike Conejo  
Sample Type: 6.0 L Silonite Canister  
Test Notes:

Date Collected: NA  
Date Received: NA  
Date Analyzed: 7/17/17  
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
7783-06-4	Hydrogen Sulfide	1,000	<b>1,080</b>	<b>108</b>	81-141	
463-58-1	Carbonyl Sulfide	1,000	<b>1,180</b>	<b>118</b>	81-147	
74-93-1	Methyl Mercaptan	1,000	<b>1,150</b>	<b>115</b>	80-144	

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 3

**Client:** RAPCA  
**Client Sample ID:** Can A-071217

ALS Project ID: P1703381  
 ALS Sample ID: P1703381-001

**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00210

Date Collected: 7/13/17  
 Date Received: 7/17/17  
 Date Analyzed: 7/17/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.67      Final Pressure (psig): 3.65

Container Dilution Factor: 1.53

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	1.5	0.77	0.21	0.87	0.44	0.12	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.77	0.26	0.40	0.15	0.053	
74-87-3	Chloromethane	ND	0.77	0.23	ND	0.37	0.11	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.77	0.29	ND	0.11	0.042	
75-01-4	Vinyl Chloride	ND	0.77	0.26	ND	0.30	0.10	
106-99-0	1,3-Butadiene	ND	0.77	0.34	ND	0.35	0.15	
74-83-9	Bromomethane	ND	0.77	0.29	ND	0.20	0.075	
75-00-3	Chloroethane	ND	0.77	0.26	ND	0.29	0.099	
67-64-1	Acetone	12	7.7	1.2	4.9	3.2	0.50	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	0.77	0.26	0.18	0.14	0.046	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.1	7.7	0.64	1.7	3.1	0.26	J
75-35-4	1,1-Dichloroethene	ND	0.77	0.26	ND	0.19	0.066	
75-09-2	Methylene Chloride	1.0	0.77	0.26	0.30	0.22	0.075	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.43	0.77	0.26	0.057	0.10	0.034	J
75-15-0	Carbon Disulfide	ND	7.7	0.23	ND	2.5	0.074	
156-60-5	trans-1,2-Dichloroethene	ND	0.77	0.29	ND	0.19	0.073	
75-34-3	1,1-Dichloroethane	ND	0.77	0.24	ND	0.19	0.061	
1634-04-4	Methyl tert-Butyl Ether	ND	0.77	0.26	ND	0.21	0.072	
108-05-4	Vinyl Acetate	ND	7.7	0.99	ND	2.2	0.28	
78-93-3	2-Butanone (MEK)	1.3	7.7	0.32	0.45	2.6	0.11	J
156-59-2	cis-1,2-Dichloroethene	ND	0.77	0.24	ND	0.19	0.062	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 3

**Client:** RAPCA

**Client Sample ID:** Can A-071217

**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703381

ALS Sample ID: P1703381-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00210

Date Collected: 7/13/17

Date Received: 7/17/17

Date Analyzed: 7/17/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.67      Final Pressure (psig): 3.65

Container Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	2.6	1.5	0.54	0.71	0.42	0.15	
110-54-3	n-Hexane	0.24	0.77	0.23	0.067	0.22	0.065	J
67-66-3	Chloroform	ND	0.77	0.26	ND	0.16	0.053	
109-99-9	Tetrahydrofuran (THF)	ND	0.77	0.31	ND	0.26	0.10	
107-06-2	1,2-Dichloroethane	ND	0.77	0.24	ND	0.19	0.061	
71-55-6	1,1,1-Trichloroethane	ND	0.77	0.26	ND	0.14	0.048	
71-43-2	Benzene	0.31	0.77	0.24	0.096	0.24	0.077	J
56-23-5	Carbon Tetrachloride	0.35	0.77	0.23	0.055	0.12	0.036	J
110-82-7	Cyclohexane	ND	1.5	0.44	ND	0.44	0.13	
78-87-5	1,2-Dichloropropane	ND	0.77	0.24	ND	0.17	0.053	
75-27-4	Bromodichloromethane	ND	0.77	0.23	ND	0.11	0.034	
79-01-6	Trichloroethene	ND	0.77	0.21	ND	0.14	0.040	
123-91-1	1,4-Dioxane	ND	0.77	0.24	ND	0.21	0.068	
142-82-5	n-Heptane	ND	0.77	0.26	ND	0.19	0.063	
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.21	ND	0.17	0.047	
108-10-1	4-Methyl-2-pentanone	ND	0.77	0.24	ND	0.19	0.060	
10061-02-6	trans-1,3-Dichloropropene	ND	0.77	0.24	ND	0.17	0.054	
79-00-5	1,1,2-Trichloroethane	ND	0.77	0.24	ND	0.14	0.045	
108-88-3	Toluene	1.0	0.77	0.26	0.27	0.20	0.069	
591-78-6	2-Hexanone	ND	0.77	0.24	ND	0.19	0.060	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** RAPCA  
**Client Sample ID:** Can A-071217  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703381  
 ALS Sample ID: P1703381-001

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00210

Date Collected: 7/13/17  
 Date Received: 7/17/17  
 Date Analyzed: 7/17/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.67      Final Pressure (psig): 3.65

Container Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.77	0.24	ND	0.090	0.029	
106-93-4	1,2-Dibromoethane	ND	0.77	0.24	ND	0.10	0.032	
127-18-4	Tetrachloroethene	ND	0.77	0.21	ND	0.11	0.032	
108-90-7	Chlorobenzene	ND	0.77	0.24	ND	0.17	0.053	
100-41-4	Ethylbenzene	ND	0.77	0.24	ND	0.18	0.056	
179601-23-1	m,p-Xylenes	ND	1.5	0.46	ND	0.35	0.11	
75-25-2	Bromoform	ND	0.77	0.23	ND	0.074	0.022	
100-42-5	Styrene	ND	0.77	0.23	ND	0.18	0.054	
95-47-6	o-Xylene	ND	0.77	0.23	ND	0.18	0.053	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.77	0.23	ND	0.11	0.033	
98-82-8	Cumene	ND	0.77	0.23	ND	0.16	0.047	
622-96-8	4-Ethyltoluene	ND	0.77	0.24	ND	0.16	0.050	
108-67-8	1,3,5-Trimethylbenzene	ND	0.77	0.24	ND	0.16	0.050	
95-63-6	1,2,4-Trimethylbenzene	ND	0.77	0.23	ND	0.16	0.047	
100-44-7	Benzyl Chloride	ND	0.77	0.17	ND	0.15	0.033	
541-73-1	1,3-Dichlorobenzene	ND	0.77	0.23	ND	0.13	0.038	
106-46-7	1,4-Dichlorobenzene	ND	0.77	0.21	ND	0.13	0.036	
95-50-1	1,2-Dichlorobenzene	ND	0.77	0.23	ND	0.13	0.038	
120-82-1	1,2,4-Trichlorobenzene	ND	0.77	0.24	ND	0.10	0.033	
91-20-3	Naphthalene	ND	0.77	0.28	ND	0.15	0.053	
87-68-3	Hexachlorobutadiene	ND	0.77	0.21	ND	0.072	0.020	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** RAPCA  
**Client Sample ID:** Can B-071217

ALS Project ID: P1703381  
 ALS Sample ID: P1703381-002

**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00786

Date Collected: 7/13/17  
 Date Received: 7/17/17  
 Date Analyzed: 7/17/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.33      Final Pressure (psig): 3.48

Container Dilution Factor: 1.94

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	<b>0.58</b>	0.97	0.27	<b>0.34</b>	0.56	0.16	<b>J</b>
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.0</b>	0.97	0.33	<b>0.41</b>	0.20	0.067	
74-87-3	Chloromethane	ND	0.97	0.29	ND	0.47	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.97	0.37	ND	0.14	0.053	
75-01-4	Vinyl Chloride	ND	0.97	0.33	ND	0.38	0.13	
106-99-0	1,3-Butadiene	ND	0.97	0.43	ND	0.44	0.19	
74-83-9	Bromomethane	ND	0.97	0.37	ND	0.25	0.095	
75-00-3	Chloroethane	ND	0.97	0.33	ND	0.37	0.13	
67-64-1	Acetone	<b>12</b>	9.7	1.5	<b>5.2</b>	4.1	0.63	
75-69-4	Trichlorofluoromethane (CFC 11)	<b>1.3</b>	0.97	0.33	<b>0.23</b>	0.17	0.059	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	9.7	0.81	ND	3.9	0.33	
75-35-4	1,1-Dichloroethene	ND	0.97	0.33	ND	0.24	0.083	
75-09-2	Methylene Chloride	<b>0.70</b>	0.97	0.33	<b>0.20</b>	0.28	0.095	<b>J</b>
76-13-1	Trichlorotrifluoroethane (CFC 113)	<b>0.45</b>	0.97	0.33	<b>0.059</b>	0.13	0.043	<b>J</b>
75-15-0	Carbon Disulfide	ND	9.7	0.29	ND	3.1	0.093	
156-60-5	trans-1,2-Dichloroethene	ND	0.97	0.37	ND	0.24	0.093	
75-34-3	1,1-Dichloroethane	ND	0.97	0.31	ND	0.24	0.077	
1634-04-4	Methyl tert-Butyl Ether	ND	0.97	0.33	ND	0.27	0.092	
108-05-4	Vinyl Acetate	ND	9.7	1.3	ND	2.8	0.36	
78-93-3	2-Butanone (MEK)	<b>1.5</b>	9.7	0.41	<b>0.51</b>	3.3	0.14	<b>J</b>
156-59-2	cis-1,2-Dichloroethene	ND	0.97	0.31	ND	0.24	0.078	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** RAPCA

**Client Sample ID:** Can B-071217

**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703381

ALS Sample ID: P1703381-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00786

Date Collected: 7/13/17

Date Received: 7/17/17

Date Analyzed: 7/17/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.33      Final Pressure (psig): 3.48

Container Dilution Factor: 1.94

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	ppbV	Qualifier
141-78-6	Ethyl Acetate	<b>0.78</b>	1.9	0.68	<b>0.22</b>	0.54	0.19	<b>J</b>
110-54-3	n-Hexane	<b>0.43</b>	0.97	0.29	<b>0.12</b>	0.28	0.083	<b>J</b>
67-66-3	Chloroform	ND	0.97	0.33	ND	0.20	0.068	
109-99-9	Tetrahydrofuran (THF)	ND	0.97	0.39	ND	0.33	0.13	
107-06-2	1,2-Dichloroethane	ND	0.97	0.31	ND	0.24	0.077	
71-55-6	1,1,1-Trichloroethane	ND	0.97	0.33	ND	0.18	0.060	
71-43-2	Benzene	<b>1.5</b>	0.97	0.31	<b>0.47</b>	0.30	0.097	
56-23-5	Carbon Tetrachloride	<b>0.35</b>	0.97	0.29	<b>0.056</b>	0.15	0.046	<b>J</b>
110-82-7	Cyclohexane	ND	1.9	0.56	ND	0.56	0.16	
78-87-5	1,2-Dichloropropane	ND	0.97	0.31	ND	0.21	0.067	
75-27-4	Bromodichloromethane	ND	0.97	0.29	ND	0.14	0.043	
79-01-6	Trichloroethene	ND	0.97	0.27	ND	0.18	0.051	
123-91-1	1,4-Dioxane	ND	0.97	0.31	ND	0.27	0.086	
142-82-5	n-Heptane	ND	0.97	0.33	ND	0.24	0.081	
10061-01-5	cis-1,3-Dichloropropene	ND	0.97	0.27	ND	0.21	0.060	
108-10-1	4-Methyl-2-pentanone	ND	0.97	0.31	ND	0.24	0.076	
10061-02-6	trans-1,3-Dichloropropene	ND	0.97	0.31	ND	0.21	0.068	
79-00-5	1,1,2-Trichloroethane	ND	0.97	0.31	ND	0.18	0.057	
108-88-3	Toluene	<b>1.3</b>	0.97	0.33	<b>0.34</b>	0.26	0.088	
591-78-6	2-Hexanone	ND	0.97	0.31	ND	0.24	0.076	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** RAPCA

**Client Sample ID:** Can B-071217

**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703381

ALS Sample ID: P1703381-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00786

Date Collected: 7/13/17

Date Received: 7/17/17

Date Analyzed: 7/17/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.33      Final Pressure (psig): 3.48

Container Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.97	0.31	ND	0.11	0.036	
106-93-4	1,2-Dibromoethane	ND	0.97	0.31	ND	0.13	0.040	
127-18-4	Tetrachloroethene	ND	0.97	0.27	ND	0.14	0.040	
108-90-7	Chlorobenzene	ND	0.97	0.31	ND	0.21	0.067	
100-41-4	Ethylbenzene	ND	0.97	0.31	ND	0.22	0.071	
179601-23-1	m,p-Xylenes	<b>0.76</b>	1.9	0.58	<b>0.17</b>	0.45	0.13	<b>J</b>
75-25-2	Bromoform	ND	0.97	0.29	ND	0.094	0.028	
100-42-5	Styrene	ND	0.97	0.29	ND	0.23	0.068	
95-47-6	o-Xylene	ND	0.97	0.29	ND	0.22	0.067	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.97	0.29	ND	0.14	0.042	
98-82-8	Cumene	ND	0.97	0.29	ND	0.20	0.059	
622-96-8	4-Ethyltoluene	ND	0.97	0.31	ND	0.20	0.063	
108-67-8	1,3,5-Trimethylbenzene	ND	0.97	0.31	ND	0.20	0.063	
95-63-6	1,2,4-Trimethylbenzene	<b>0.48</b>	0.97	0.29	<b>0.097</b>	0.20	0.059	<b>J</b>
100-44-7	Benzyl Chloride	ND	0.97	0.21	ND	0.19	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.97	0.29	ND	0.16	0.048	
106-46-7	1,4-Dichlorobenzene	ND	0.97	0.27	ND	0.16	0.045	
95-50-1	1,2-Dichlorobenzene	ND	0.97	0.29	ND	0.16	0.048	
120-82-1	1,2,4-Trichlorobenzene	ND	0.97	0.31	ND	0.13	0.042	
91-20-3	Naphthalene	ND	0.97	0.35	ND	0.19	0.067	
87-68-3	Hexachlorobutadiene	ND	0.97	0.27	ND	0.091	0.025	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.



# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** RAPCA  
**Client Sample ID:** Method Blank  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
Analyst: Lusine Hakobyan  
Sample Type: 6.0 L Silonite Canister  
Test Notes:

ALS Project ID: P1703381  
ALS Sample ID: P170717-MB

Date Collected: NA  
Date Received: NA  
Date Analyzed: 7/17/17  
Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** RAPCA  
**Client Sample ID:** Method Blank  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703381  
 ALS Sample ID: P170717-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 7/17/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** RAPCA  
**Client Sample ID:** Method Blank  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703381  
 ALS Sample ID: P170717-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 7/17/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

**ALS ENVIRONMENTAL**

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** RAPCA  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703381

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sample Type: 6.0 L Silonite Canister(s)  
 Test Notes:

Date(s) Collected: 7/13/17  
 Date(s) Received: 7/17/17  
 Date(s) Analyzed: 7/17/17

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P170717-MB	<b>83</b>	<b>104</b>	<b>100</b>	70-130	
Lab Control Sample	P170717-LCS	<b>81</b>	<b>102</b>	<b>99</b>	70-130	
Can A-071217	P1703381-001	<b>86</b>	<b>103</b>	<b>98</b>	70-130	
Can B-071217	P1703381-002	<b>86</b>	<b>103</b>	<b>99</b>	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

**Client:** RAPCA  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703381  
 ALS Sample ID: P170717-LCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 7/17/17  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	210	201	96	52-127	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	175	83	68-109	
74-87-3	Chloromethane	210	183	87	51-130	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	179	85	66-114	
75-01-4	Vinyl Chloride	210	195	93	61-125	
106-99-0	1,3-Butadiene	210	193	92	62-144	
74-83-9	Bromomethane	210	191	91	73-123	
75-00-3	Chloroethane	210	224	107	69-122	
67-64-1	Acetone	1,060	1020	96	57-117	
75-69-4	Trichlorofluoromethane (CFC 11)	210	178	85	63-98	
67-63-0	2-Propanol (Isopropyl Alcohol)	424	375	88	66-121	
75-35-4	1,1-Dichloroethene	213	209	98	76-118	
75-09-2	Methylene Chloride	212	212	100	60-118	
76-13-1	Trichlorotrifluoroethane (CFC 113)	212	196	92	73-114	
75-15-0	Carbon Disulfide	213	219	103	57-102	L
156-60-5	trans-1,2-Dichloroethene	213	209	98	74-123	
75-34-3	1,1-Dichloroethane	212	207	98	69-111	
1634-04-4	Methyl tert-Butyl Ether	213	195	92	69-113	
108-05-4	Vinyl Acetate	1,060	1080	102	76-128	
78-93-3	2-Butanone (MEK)	212	212	100	63-127	
156-59-2	cis-1,2-Dichloroethene	212	203	96	72-117	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly. L = Laboratory control sample recovery outside the specified limits, results may be biased high.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

**Client:** RAPCA  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1  
 Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

ALS Project ID: P1703381  
 ALS Sample ID: P170717-LCS  
 Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 7/17/17  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
141-78-6	Ethyl Acetate	426	433	102	68-127	
110-54-3	n-Hexane	213	207	97	55-116	
67-66-3	Chloroform	212	189	89	70-109	
109-99-9	Tetrahydrofuran (THF)	213	203	95	72-113	
107-06-2	1,2-Dichloroethane	212	168	79	69-113	
71-55-6	1,1,1-Trichloroethane	212	179	84	72-115	
71-43-2	Benzene	212	203	96	65-107	
56-23-5	Carbon Tetrachloride	213	177	83	71-113	
110-82-7	Cyclohexane	425	423	100	71-115	
78-87-5	1,2-Dichloropropane	212	222	105	71-115	
75-27-4	Bromodichloromethane	214	191	89	75-118	
79-01-6	Trichloroethene	212	203	96	68-114	
123-91-1	1,4-Dioxane	213	211	99	81-131	
142-82-5	n-Heptane	213	217	102	68-116	
10061-01-5	cis-1,3-Dichloropropene	210	212	101	77-126	
108-10-1	4-Methyl-2-pentanone	213	212	100	69-126	
10061-02-6	trans-1,3-Dichloropropene	213	210	99	79-125	
79-00-5	1,1,2-Trichloroethane	212	210	99	75-119	
108-88-3	Toluene	212	211	100	59-118	
591-78-6	2-Hexanone	213	183	86	69-129	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

# ALS ENVIRONMENTAL

## LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

**Client:** RAPCA  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703381  
 ALS Sample ID: P170717-LCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16  
 Analyst: Lusine Hakobyan  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 7/17/17  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
124-48-1	Dibromochloromethane	213	197	92	74-136	
106-93-4	1,2-Dibromoethane	212	208	98	73-131	
127-18-4	Tetrachloroethene	213	201	94	65-130	
108-90-7	Chlorobenzene	212	207	98	68-120	
100-41-4	Ethylbenzene	212	201	95	68-122	
179601-23-1	m,p-Xylenes	424	389	92	68-123	
75-25-2	Bromoform	212	195	92	69-130	
100-42-5	Styrene	212	214	101	71-133	
95-47-6	o-Xylene	212	193	91	68-122	
79-34-5	1,1,2,2-Tetrachloroethane	212	212	100	69-130	
98-82-8	Cumene	212	199	94	70-123	
622-96-8	4-Ethyltoluene	212	206	97	67-130	
108-67-8	1,3,5-Trimethylbenzene	212	194	92	67-124	
95-63-6	1,2,4-Trimethylbenzene	212	190	90	67-129	
100-44-7	Benzyl Chloride	212	206	97	79-138	
541-73-1	1,3-Dichlorobenzene	212	203	96	65-136	
106-46-7	1,4-Dichlorobenzene	213	207	97	66-141	
95-50-1	1,2-Dichlorobenzene	212	202	95	67-136	
120-82-1	1,2,4-Trichlorobenzene	212	223	105	64-134	
91-20-3	Naphthalene	214	236	110	62-136	
87-68-3	Hexachlorobutadiene	213	198	93	60-133	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.  
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.