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

## LABORATORY REPORT

May 30, 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 May 24, 2017. For your reference, these analyses have been assigned our service request number P1702480.

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 3:55 pm, 05/30/17

Kate Kaneko  
Project Manager



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

Service Request No: P1702480

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## CASE NARRATIVE

The samples were received intact under chain of custody on May 24, 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 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>	T104704413-16-7
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: P1702480

Date Received: 5/24/2017  
 Time Received: 09:45

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-051917	P1702480-001	Air	5/20/2017	07:29	AS00663	-3.29	3.52	X	X
Can B-051917	P1702480-002	Air	5/20/2017	07:40	AS00678	-4.80	3.55	X	X





# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 1

**Client:** RAPCA  
**Client Sample ID:** Can A-051917  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1702480  
 ALS Sample ID: P1702480-001

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00663

Date Collected: 5/20/17  
 Time Collected: 07:29  
 Date Received: 5/24/17  
 Date Analyzed: 5/25/17  
 Time Analyzed: 14:21  
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -3.29      Final Pressure (psig): 3.52

Canister Dilution Factor: 1.60

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	8.0	
463-58-1	Carbonyl Sulfide	ND	20	ND	8.0	
74-93-1	Methyl Mercaptan	ND	16	ND	8.0	
75-08-1	Ethyl Mercaptan	ND	20	ND	8.0	
75-18-3	Dimethyl Sulfide	ND	20	ND	8.0	
75-15-0	Carbon Disulfide	ND	12	ND	4.0	
75-33-2	Isopropyl Mercaptan	ND	25	ND	8.0	
75-66-1	tert-Butyl Mercaptan	ND	29	ND	8.0	
107-03-9	n-Propyl Mercaptan	ND	25	ND	8.0	
624-89-5	Ethyl Methyl Sulfide	ND	25	ND	8.0	
110-02-1	Thiophene	ND	28	ND	8.0	
513-44-0	Isobutyl Mercaptan	ND	29	ND	8.0	
352-93-2	Diethyl Sulfide	ND	29	ND	8.0	
109-79-5	n-Butyl Mercaptan	ND	29	ND	8.0	
624-92-0	Dimethyl Disulfide	ND	15	ND	4.0	
616-44-4	3-Methylthiophene	ND	32	ND	8.0	
110-01-0	Tetrahydrothiophene	ND	29	ND	8.0	
638-02-8	2,5-Dimethylthiophene	ND	37	ND	8.0	
872-55-9	2-Ethylthiophene	ND	37	ND	8.0	
110-81-6	Diethyl Disulfide	ND	20	ND	4.0	

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-051917  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1702480  
 ALS Sample ID: P1702480-002

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00678

Date Collected: 5/20/17  
 Time Collected: 07:40  
 Date Received: 5/24/17  
 Date Analyzed: 5/25/17  
 Time Analyzed: 14:34  
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -4.80      Final Pressure (psig): 3.55

Canister Dilution Factor: 1.84

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	13	ND	9.2	
463-58-1	Carbonyl Sulfide	ND	23	ND	9.2	
74-93-1	Methyl Mercaptan	ND	18	ND	9.2	
75-08-1	Ethyl Mercaptan	ND	23	ND	9.2	
75-18-3	Dimethyl Sulfide	ND	23	ND	9.2	
75-15-0	Carbon Disulfide	ND	14	ND	4.6	
75-33-2	Isopropyl Mercaptan	ND	29	ND	9.2	
75-66-1	tert-Butyl Mercaptan	ND	34	ND	9.2	
107-03-9	n-Propyl Mercaptan	ND	29	ND	9.2	
624-89-5	Ethyl Methyl Sulfide	ND	29	ND	9.2	
110-02-1	Thiophene	ND	32	ND	9.2	
513-44-0	Isobutyl Mercaptan	ND	34	ND	9.2	
352-93-2	Diethyl Sulfide	ND	34	ND	9.2	
109-79-5	n-Butyl Mercaptan	ND	34	ND	9.2	
624-92-0	Dimethyl Disulfide	ND	18	ND	4.6	
616-44-4	3-Methylthiophene	ND	37	ND	9.2	
110-01-0	Tetrahydrothiophene	ND	33	ND	9.2	
638-02-8	2,5-Dimethylthiophene	ND	42	ND	9.2	
872-55-9	2-Ethylthiophene	ND	42	ND	9.2	
110-81-6	Diethyl Disulfide	ND	23	ND	4.6	

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: P1702480  
 ALS Sample ID: P170525-MB

Test Code: ASTM D 5504-12  
 Instrument ID: Agilent 6890A/GC13/SCD  
 Analyst: Mike Conejo  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Time Collected: NA  
 Date Received: NA  
 Date Analyzed: 5/25/17  
 Time Analyzed: 08:03  
 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: P1702480  
ALS Sample ID: P170525-LCS

Test Code: ASTM D 5504-12  
Instrument ID: Agilent 6890A/GC13/SCD  
Analyst: Mike Conejo  
Sample Type: 6.0 L Silonite Canister  
Test Notes:

Date Collected: NA  
Date Received: NA  
Date Analyzed: 5/25/17  
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	995	100	75-148	
463-58-1	Carbonyl Sulfide	1,000	999	100	70-137	
74-93-1	Methyl Mercaptan	1,000	951	95	72-139	

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 3

**Client:** RAPCA  
**Client Sample ID:** Can A-051917  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1702480  
 ALS Sample ID: P1702480-001

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00663

Date Collected: 5/20/17  
 Date Received: 5/24/17  
 Date Analyzed: 5/26/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.29      Final Pressure (psig): 3.52

Canister Dilution Factor: 1.60

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	ND	0.80	0.22	ND	0.47	0.13	
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.5</b>	0.80	0.27	<b>0.51</b>	0.16	0.055	
74-87-3	Chloromethane	<b>0.39</b>	0.80	0.24	<b>0.19</b>	0.39	0.12	<b>J</b>
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.80	0.30	ND	0.11	0.044	
75-01-4	Vinyl Chloride	ND	0.80	0.27	ND	0.31	0.11	
106-99-0	1,3-Butadiene	ND	0.80	0.35	ND	0.36	0.16	
74-83-9	Bromomethane	ND	0.80	0.30	ND	0.21	0.078	
75-00-3	Chloroethane	ND	0.80	0.27	ND	0.30	0.10	
67-64-1	Acetone	<b>6.7</b>	8.0	1.2	<b>2.8</b>	3.4	0.52	<b>J</b>
75-69-4	Trichlorofluoromethane (CFC 11)	<b>1.3</b>	0.80	0.27	<b>0.23</b>	0.14	0.048	
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>1.3</b>	8.0	0.67	<b>0.52</b>	3.3	0.27	<b>J</b>
75-35-4	1,1-Dichloroethene	ND	0.80	0.27	ND	0.20	0.069	
75-09-2	Methylene Chloride	<b>0.40</b>	0.80	0.27	<b>0.12</b>	0.23	0.078	<b>J</b>
76-13-1	Trichlorotrifluoroethane (CFC 113)	<b>0.48</b>	0.80	0.27	<b>0.063</b>	0.10	0.036	<b>J</b>
75-15-0	Carbon Disulfide	<b>0.63</b>	8.0	0.24	<b>0.20</b>	2.6	0.077	<b>J</b>
156-60-5	trans-1,2-Dichloroethene	ND	0.80	0.30	ND	0.20	0.077	
75-34-3	1,1-Dichloroethane	ND	0.80	0.26	ND	0.20	0.063	
1634-04-4	Methyl tert-Butyl Ether	ND	0.80	0.27	ND	0.22	0.075	
108-05-4	Vinyl Acetate	ND	8.0	1.0	ND	2.3	0.30	
78-93-3	2-Butanone (MEK)	<b>0.74</b>	8.0	0.34	<b>0.25</b>	2.7	0.11	<b>J</b>
156-59-2	cis-1,2-Dichloroethene	ND	0.80	0.26	ND	0.20	0.065	

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-051917  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1702480  
 ALS Sample ID: P1702480-001

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00663

Date Collected: 5/20/17  
 Date Received: 5/24/17  
 Date Analyzed: 5/26/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.29      Final Pressure (psig): 3.52

Canister Dilution Factor: 1.60

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	<b>6.2</b>	1.6	0.56	<b>1.7</b>	0.44	0.16	
110-54-3	n-Hexane	<b>0.32</b>	0.80	0.24	<b>0.090</b>	0.23	0.068	<b>J</b>
67-66-3	Chloroform	ND	0.80	0.27	ND	0.16	0.056	
109-99-9	Tetrahydrofuran (THF)	ND	0.80	0.32	ND	0.27	0.11	
107-06-2	1,2-Dichloroethane	ND	0.80	0.26	ND	0.20	0.063	
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.27	ND	0.15	0.050	
71-43-2	Benzene	<b>0.31</b>	0.80	0.26	<b>0.097</b>	0.25	0.080	<b>J</b>
56-23-5	Carbon Tetrachloride	<b>0.41</b>	0.80	0.24	<b>0.066</b>	0.13	0.038	<b>J</b>
110-82-7	Cyclohexane	ND	1.6	0.46	ND	0.47	0.13	
78-87-5	1,2-Dichloropropane	ND	0.80	0.26	ND	0.17	0.055	
75-27-4	Bromodichloromethane	ND	0.80	0.24	ND	0.12	0.036	
79-01-6	Trichloroethene	ND	0.80	0.22	ND	0.15	0.042	
123-91-1	1,4-Dioxane	ND	0.80	0.26	ND	0.22	0.071	
142-82-5	n-Heptane	ND	0.80	0.27	ND	0.20	0.066	
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.22	ND	0.18	0.049	
108-10-1	4-Methyl-2-pentanone	ND	0.80	0.26	ND	0.20	0.062	
10061-02-6	trans-1,3-Dichloropropene	ND	0.80	0.26	ND	0.18	0.056	
79-00-5	1,1,2-Trichloroethane	ND	0.80	0.26	ND	0.15	0.047	
108-88-3	Toluene	<b>0.78</b>	0.80	0.27	<b>0.21</b>	0.21	0.072	<b>J</b>
591-78-6	2-Hexanone	ND	0.80	0.26	ND	0.20	0.063	

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 3 of 3

**Client:** RAPCA  
**Client Sample ID:** Can A-051917  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1702480  
 ALS Sample ID: P1702480-001

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00663

Date Collected: 5/20/17  
 Date Received: 5/24/17  
 Date Analyzed: 5/26/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.29      Final Pressure (psig): 3.52

Canister Dilution Factor: 1.60

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	0.80	0.26	ND	0.094	0.030	
106-93-4	1,2-Dibromoethane	ND	0.80	0.26	ND	0.10	0.033	
127-18-4	Tetrachloroethene	ND	0.80	0.22	ND	0.12	0.033	
108-90-7	Chlorobenzene	ND	0.80	0.26	ND	0.17	0.056	
100-41-4	Ethylbenzene	ND	0.80	0.26	ND	0.18	0.059	
179601-23-1	m,p-Xylenes	ND	1.6	0.48	ND	0.37	0.11	
75-25-2	Bromoform	ND	0.80	0.24	ND	0.077	0.023	
100-42-5	Styrene	ND	0.80	0.24	ND	0.19	0.056	
95-47-6	o-Xylene	ND	0.80	0.24	ND	0.18	0.055	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.24	ND	0.12	0.035	
98-82-8	Cumene	ND	0.80	0.24	ND	0.16	0.049	
622-96-8	4-Ethyltoluene	ND	0.80	0.26	ND	0.16	0.052	
108-67-8	1,3,5-Trimethylbenzene	ND	0.80	0.26	ND	0.16	0.052	
95-63-6	1,2,4-Trimethylbenzene	ND	0.80	0.24	ND	0.16	0.049	
100-44-7	Benzyl Chloride	ND	0.80	0.18	ND	0.15	0.034	
541-73-1	1,3-Dichlorobenzene	ND	0.80	0.24	ND	0.13	0.040	
106-46-7	1,4-Dichlorobenzene	ND	0.80	0.22	ND	0.13	0.037	
95-50-1	1,2-Dichlorobenzene	ND	0.80	0.24	ND	0.13	0.040	
120-82-1	1,2,4-Trichlorobenzene	ND	0.80	0.26	ND	0.11	0.035	
91-20-3	Naphthalene	ND	0.80	0.29	ND	0.15	0.055	
87-68-3	Hexachlorobutadiene	ND	0.80	0.22	ND	0.075	0.021	

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

Page 1 of 3

**Client:** RAPCA  
**Client Sample ID:** Can B-051917  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1702480  
 ALS Sample ID: P1702480-002

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00678

Date Collected: 5/20/17  
 Date Received: 5/24/17  
 Date Analyzed: 5/26/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.80      Final Pressure (psig): 3.55

Canister Dilution Factor: 1.84

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	ND	0.92	0.26	ND	0.53	0.15	
75-71-8	Dichlorodifluoromethane (CFC 12)	<b>2.8</b>	0.92	0.31	<b>0.57</b>	0.19	0.063	
74-87-3	Chloromethane	<b>0.45</b>	0.92	0.28	<b>0.22</b>	0.45	0.13	<b>J</b>
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.92	0.35	ND	0.13	0.050	
75-01-4	Vinyl Chloride	ND	0.92	0.31	ND	0.36	0.12	
106-99-0	1,3-Butadiene	ND	0.92	0.40	ND	0.42	0.18	
74-83-9	Bromomethane	ND	0.92	0.35	ND	0.24	0.090	
75-00-3	Chloroethane	ND	0.92	0.31	ND	0.35	0.12	
67-64-1	Acetone	<b>7.1</b>	9.2	1.4	<b>3.0</b>	3.9	0.60	<b>J</b>
75-69-4	Trichlorofluoromethane (CFC 11)	<b>1.3</b>	0.92	0.31	<b>0.23</b>	0.16	0.056	
67-63-0	2-Propanol (Isopropyl Alcohol)	<b>1.5</b>	9.2	0.77	<b>0.62</b>	3.7	0.31	<b>J</b>
75-35-4	1,1-Dichloroethene	ND	0.92	0.31	ND	0.23	0.079	
75-09-2	Methylene Chloride	<b>0.37</b>	0.92	0.31	<b>0.11</b>	0.26	0.090	<b>J</b>
76-13-1	Trichlorotrifluoroethane (CFC 113)	<b>0.46</b>	0.92	0.31	<b>0.060</b>	0.12	0.041	<b>J</b>
75-15-0	Carbon Disulfide	ND	9.2	0.28	ND	3.0	0.089	
156-60-5	trans-1,2-Dichloroethene	ND	0.92	0.35	ND	0.23	0.088	
75-34-3	1,1-Dichloroethane	ND	0.92	0.29	ND	0.23	0.073	
1634-04-4	Methyl tert-Butyl Ether	ND	0.92	0.31	ND	0.26	0.087	
108-05-4	Vinyl Acetate	ND	9.2	1.2	ND	2.6	0.34	
78-93-3	2-Butanone (MEK)	<b>0.72</b>	9.2	0.39	<b>0.24</b>	3.1	0.13	<b>J</b>
156-59-2	cis-1,2-Dichloroethene	ND	0.92	0.29	ND	0.23	0.074	

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 B-051917  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1702480  
 ALS Sample ID: P1702480-002

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00678

Date Collected: 5/20/17  
 Date Received: 5/24/17  
 Date Analyzed: 5/26/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.80      Final Pressure (psig): 3.55

Canister Dilution Factor: 1.84

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	<b>10</b>	1.8	0.64	<b>2.8</b>	0.51	0.18	
110-54-3	n-Hexane	<b>0.33</b>	0.92	0.28	<b>0.092</b>	0.26	0.078	<b>J</b>
67-66-3	Chloroform	ND	0.92	0.31	ND	0.19	0.064	
109-99-9	Tetrahydrofuran (THF)	ND	0.92	0.37	ND	0.31	0.12	
107-06-2	1,2-Dichloroethane	ND	0.92	0.29	ND	0.23	0.073	
71-55-6	1,1,1-Trichloroethane	ND	0.92	0.31	ND	0.17	0.057	
71-43-2	Benzene	ND	0.92	0.29	ND	0.29	0.092	
56-23-5	Carbon Tetrachloride	<b>0.40</b>	0.92	0.28	<b>0.064</b>	0.15	0.044	<b>J</b>
110-82-7	Cyclohexane	ND	1.8	0.53	ND	0.53	0.16	
78-87-5	1,2-Dichloropropane	ND	0.92	0.29	ND	0.20	0.064	
75-27-4	Bromodichloromethane	ND	0.92	0.28	ND	0.14	0.041	
79-01-6	Trichloroethene	ND	0.92	0.26	ND	0.17	0.048	
123-91-1	1,4-Dioxane	ND	0.92	0.29	ND	0.26	0.082	
142-82-5	n-Heptane	ND	0.92	0.31	ND	0.22	0.076	
10061-01-5	cis-1,3-Dichloropropene	ND	0.92	0.26	ND	0.20	0.057	
108-10-1	4-Methyl-2-pentanone	ND	0.92	0.29	ND	0.22	0.072	
10061-02-6	trans-1,3-Dichloropropene	ND	0.92	0.29	ND	0.20	0.065	
79-00-5	1,1,2-Trichloroethane	ND	0.92	0.29	ND	0.17	0.054	
108-88-3	Toluene	<b>1.1</b>	0.92	0.31	<b>0.28</b>	0.24	0.083	
591-78-6	2-Hexanone	ND	0.92	0.29	ND	0.22	0.072	

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 3 of 3

**Client:** RAPCA  
**Client Sample ID:** Can B-051917  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1702480  
 ALS Sample ID: P1702480-002

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00678

Date Collected: 5/20/17  
 Date Received: 5/24/17  
 Date Analyzed: 5/26/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.80      Final Pressure (psig): 3.55

Canister Dilution Factor: 1.84

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	0.92	0.29	ND	0.11	0.035	
106-93-4	1,2-Dibromoethane	ND	0.92	0.29	ND	0.12	0.038	
127-18-4	Tetrachloroethene	ND	0.92	0.26	ND	0.14	0.038	
108-90-7	Chlorobenzene	ND	0.92	0.29	ND	0.20	0.064	
100-41-4	Ethylbenzene	ND	0.92	0.29	ND	0.21	0.068	
179601-23-1	m,p-Xylenes	ND	1.8	0.55	ND	0.42	0.13	
75-25-2	Bromoform	ND	0.92	0.28	ND	0.089	0.027	
100-42-5	Styrene	ND	0.92	0.28	ND	0.22	0.065	
95-47-6	o-Xylene	ND	0.92	0.28	ND	0.21	0.064	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.92	0.28	ND	0.13	0.040	
98-82-8	Cumene	ND	0.92	0.28	ND	0.19	0.056	
622-96-8	4-Ethyltoluene	ND	0.92	0.29	ND	0.19	0.060	
108-67-8	1,3,5-Trimethylbenzene	ND	0.92	0.29	ND	0.19	0.060	
95-63-6	1,2,4-Trimethylbenzene	ND	0.92	0.28	ND	0.19	0.056	
100-44-7	Benzyl Chloride	ND	0.92	0.20	ND	0.18	0.039	
541-73-1	1,3-Dichlorobenzene	ND	0.92	0.28	ND	0.15	0.046	
106-46-7	1,4-Dichlorobenzene	ND	0.92	0.26	ND	0.15	0.043	
95-50-1	1,2-Dichlorobenzene	ND	0.92	0.28	ND	0.15	0.046	
120-82-1	1,2,4-Trichlorobenzene	ND	0.92	0.29	ND	0.12	0.040	
91-20-3	Naphthalene	ND	0.92	0.33	ND	0.18	0.063	
87-68-3	Hexachlorobutadiene	ND	0.92	0.26	ND	0.086	0.024	

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

Page 1 of 3

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

ALS Project ID: P1702480  
 ALS Sample ID: P170525-MB

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
**Analyst:** Wida Ang  
**Sample Type:** 6.0 L Silonite Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 5/25/17  
**Volume(s) Analyzed:** 1.00 Liter(s)

Canister Dilution Factor: 1.00

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	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

Page 2 of 3

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

ALS Project ID: P1702480  
 ALS Sample ID: P170525-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 5/25/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Canister 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: P1702480  
 ALS Sample ID: P170525-MB

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
**Analyst:** Wida Ang  
**Sample Type:** 6.0 L Silonite Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 5/25/17  
**Volume(s) Analyzed:** 1.00 Liter(s)

Canister 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: P1702480

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister(s)  
 Test Notes:

Date(s) Collected: 5/20/17  
 Date(s) Received: 5/24/17  
 Date(s) Analyzed: 5/25 - 5/26/17

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	P170525-MB	<b>108</b>	<b>100</b>	<b>90</b>	70-130	
Lab Control Sample	P170525-LCS	<b>105</b>	<b>99</b>	<b>99</b>	70-130	
Can A-051917	P1702480-001	<b>112</b>	<b>96</b>	<b>89</b>	70-130	
Can B-051917	P1702480-002	<b>113</b>	<b>104</b>	<b>90</b>	70-130	
Can B-051917	P1702480-002DUP	<b>115</b>	<b>99</b>	<b>89</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: P1702480  
 ALS Sample ID: P170525-LCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 5/25/17  
 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	193	92	68-109	
74-87-3	Chloromethane	210	178	85	51-130	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	173	82	66-114	
75-01-4	Vinyl Chloride	210	191	91	61-125	
106-99-0	1,3-Butadiene	210	197	94	62-144	
74-83-9	Bromomethane	210	200	95	73-123	
75-00-3	Chloroethane	210	198	94	69-122	
67-64-1	Acetone	1,060	1040	98	57-117	
75-69-4	Trichlorofluoromethane (CFC 11)	210	195	93	63-98	
67-63-0	2-Propanol (Isopropyl Alcohol)	424	410	97	66-121	
75-35-4	1,1-Dichloroethene	213	194	91	76-118	
75-09-2	Methylene Chloride	212	196	92	60-118	
76-13-1	Trichlorotrifluoroethane (CFC 113)	212	184	87	73-114	
75-15-0	Carbon Disulfide	213	198	93	57-102	
156-60-5	trans-1,2-Dichloroethene	213	201	94	74-123	
75-34-3	1,1-Dichloroethane	212	190	90	69-111	
1634-04-4	Methyl tert-Butyl Ether	213	172	81	69-113	
108-05-4	Vinyl Acetate	1,060	1070	101	76-128	
78-93-3	2-Butanone (MEK)	212	216	102	63-127	
156-59-2	cis-1,2-Dichloroethene	212	197	93	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.

# 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

ALS Project ID: P1702480  
 ALS Sample ID: P170525-LCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 5/25/17  
 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	475	112	68-127	
110-54-3	n-Hexane	213	199	93	55-116	
67-66-3	Chloroform	212	191	90	70-109	
109-99-9	Tetrahydrofuran (THF)	213	201	94	72-113	
107-06-2	1,2-Dichloroethane	212	200	94	69-113	
71-55-6	1,1,1-Trichloroethane	212	196	92	72-115	
71-43-2	Benzene	212	184	87	65-107	
56-23-5	Carbon Tetrachloride	213	211	99	71-113	
110-82-7	Cyclohexane	425	369	87	71-115	
78-87-5	1,2-Dichloropropane	212	191	90	71-115	
75-27-4	Bromodichloromethane	214	219	102	75-118	
79-01-6	Trichloroethene	212	194	92	68-114	
123-91-1	1,4-Dioxane	213	210	99	81-131	
142-82-5	n-Heptane	213	195	92	68-116	
10061-01-5	cis-1,3-Dichloropropene	210	223	106	77-126	
108-10-1	4-Methyl-2-pentanone	213	233	109	69-126	
10061-02-6	trans-1,3-Dichloropropene	213	223	105	79-125	
79-00-5	1,1,2-Trichloroethane	212	200	94	75-119	
108-88-3	Toluene	212	186	88	59-118	
591-78-6	2-Hexanone	213	246	115	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: P1702480  
 ALS Sample ID: P170525-LCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 5/25/17  
 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	228	107	74-136	
106-93-4	1,2-Dibromoethane	212	216	102	73-131	
127-18-4	Tetrachloroethene	213	182	85	65-130	
108-90-7	Chlorobenzene	212	191	90	68-120	
100-41-4	Ethylbenzene	212	198	93	68-122	
179601-23-1	m,p-Xylenes	424	402	95	68-123	
75-25-2	Bromoform	212	224	106	69-130	
100-42-5	Styrene	212	225	106	71-133	
95-47-6	o-Xylene	212	197	93	68-122	
79-34-5	1,1,2,2-Tetrachloroethane	212	207	98	69-130	
98-82-8	Cumene	212	196	92	70-123	
622-96-8	4-Ethyltoluene	212	216	102	67-130	
108-67-8	1,3,5-Trimethylbenzene	212	199	94	67-124	
95-63-6	1,2,4-Trimethylbenzene	212	217	102	67-129	
100-44-7	Benzyl Chloride	212	241	114	79-138	
541-73-1	1,3-Dichlorobenzene	212	213	100	65-136	
106-46-7	1,4-Dichlorobenzene	213	208	98	66-141	
95-50-1	1,2-Dichlorobenzene	212	213	100	67-136	
120-82-1	1,2,4-Trichlorobenzene	212	220	104	64-134	
91-20-3	Naphthalene	214	240	112	62-136	
87-68-3	Hexachlorobutadiene	213	188	88	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.

# ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

**Client:** RAPCA  
**Client Sample ID:** Can B-051917

ALS Project ID: P1702480  
 ALS Sample ID: P1702480-002DUP

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

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00678

Date Collected: 5/20/17  
 Date Received: 5/24/17  
 Date Analyzed: 5/26/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.80

Final Pressure (psig): 3.55

Canister Dilution Factor: 1.84

Compound	Sample Result		Duplicate Sample Result		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
	µg/m <sup>3</sup>	ppbV	µg/m <sup>3</sup>	ppbV				
Propene	ND	ND	ND	ND	-	-	25	
Dichlorodifluoromethane (CFC 12)	2.80	0.566	2.50	0.507	2.65	<b>11</b>	25	
Chloromethane	0.449	0.217	0.386	0.187	0.4175	<b>15</b>	25	<b>J</b>
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Acetone	7.07	2.98	6.67	2.81	6.87	<b>6</b>	25	<b>J</b>
Trichlorofluoromethane	1.30	0.232	1.26	0.224	1.28	<b>3</b>	25	
2-Propanol (Isopropyl Alcohol)	1.52	0.619	1.44	0.585	1.48	<b>5</b>	25	<b>J</b>
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	0.366	0.105	0.348	0.100	0.357	<b>5</b>	25	<b>J</b>
Trichlorotrifluoroethane	0.458	0.0598	0.458	0.0598	0.458	<b>0</b>	25	<b>J</b>
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	0.718	0.243	0.710	0.241	0.714	<b>1</b>	25	<b>J</b>
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	

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

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



# ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

**Client:** RAPCA  
**Client Sample ID:** Can B-051917

ALS Project ID: P1702480  
 ALS Sample ID: P1702480-002DUP

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

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00678

Date Collected: 5/20/17  
 Date Received: 5/24/17  
 Date Analyzed: 5/26/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.80

Final Pressure (psig): 3.55

Canister Dilution Factor: 1.84

Compound	Sample Result		Duplicate Sample Result		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
	µg/m <sup>3</sup>	ppbV	µg/m <sup>3</sup>	ppbV				
Ethyl Acetate	9.98	2.77	9.66	2.68	9.82	<b>3</b>	25	
n-Hexane	0.326	0.0924	0.311	0.0883	0.3185	<b>5</b>	25	<b>J</b>
Chloroform	ND	ND	ND	ND	-	-	25	
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	ND	ND	ND	ND	-	-	25	
Carbon Tetrachloride	0.403	0.0641	0.388	0.0617	0.3955	<b>4</b>	25	<b>J</b>
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	1.07	0.284	0.966	0.256	1.018	<b>10</b>	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	

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

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

# ALS ENVIRONMENTAL

## LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

**Client:** RAPCA  
**Client Sample ID:** Can B-051917

ALS Project ID: P1702480  
 ALS Sample ID: P1702480-002DUP

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

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS00678

Date Collected: 5/20/17  
 Date Received: 5/24/17  
 Date Analyzed: 5/26/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.80

Final Pressure (psig): 3.55

Canister Dilution Factor: 1.84

Compound	Sample Result		Duplicate Sample Result		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
	µg/m <sup>3</sup>	ppbV	µg/m <sup>3</sup>	ppbV				
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	ND	ND	ND	ND	-	-	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	ND	ND	ND	ND	-	-	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	ND	ND	ND	ND	-	-	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

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