



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

LABORATORY REPORT

July 12, 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 7, 2017. For your reference, these analyses have been assigned our service request number P1703245.

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. 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 8:52 am, 07/12/17

Kate Kaneko
Project Manager



2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

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

Service Request No: P1703245

CASE NARRATIVE

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.

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.



2655 Park Center Dr., Suite A
 Simi Valley, CA 93065
 T: +1 805 526 7161
 F: +1 805 526 7270
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2016036
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1177034
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-004
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-17-8
Utah DOH (NELAP)	http://health.utah.gov/lab/environmental-lab-certification/	CA01627201 6-6
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	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, 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: P1703245

Date Received: 7/7/2017
 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 - 070317	P1703245-001	Air	7/4/2017	07:22	AS00880	-5.57	3.73	X	X
Can B - 070317	P1703245-002	Air	7/4/2017	07:36	AS01168	-7.71	4.50	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.
P1703245

Company Name & Address (Reporting Information) Regional Air Pollution Control (RAPCA) 117 S. Main St. Dayton, OH 45422		Project Name Community Air Toxics Monitoring 2017		ALS Contact: K. Kaneko		Analysis Method		Comments e.g. Actual Preservative or specific instructions
Project Manager Stephanie Madden Phone 937-225-5922 Email Address for Result Reporting smadden@rapca.org and aroth@rapca.org		Project Number 2017-1 P.O. # / Billing Information: PO# 702021 Public Health Dayton Montgomery County (PHDMC) Attn: Accounting 117 S. Main St. Dayton, OH 45422		Flow Controller ID (Bar code # - FC #)		Canister Start Pressure "Hg		
Laboratory ID Number		Date		Time		Canister End Pressure "Hg/psig		Sample Volume
Client Sample ID		Date		Time		Canister Start Pressure "Hg		Sample Volume
Can A - 070317		7/3/17 - 7/4/17		0825 - 0722		-30 -13		6L X
Can B - 070317		7/3/17 - 7/4/17		0840 - 0776		-29 -16		6L X
Can C - 070317								
Can D - 070317								
Can E - 070317								
Can F - 070317								
Can G - 070317								
Can H - 070317								
Can I - 070317								
Can J - 070317								
Can K - 070317								
Can L - 070317								
Can M - 070317								
Can N - 070317								
Can O - 070317								
Can P - 070317								
Can Q - 070317								
Can R - 070317								
Can S - 070317								
Can T - 070317								
Can U - 070317								
Can V - 070317								
Can W - 070317								
Can X - 070317								
Can Y - 070317								
Can Z - 070317								
Can AA - 070317								
Can AB - 070317								
Can AC - 070317								
Can AD - 070317								
Can AE - 070317								
Can AF - 070317								
Can AG - 070317								
Can AH - 070317								
Can AI - 070317								
Can AJ - 070317								
Can AK - 070317								
Can AL - 070317								
Can AM - 070317								
Can AN - 070317								
Can AO - 070317								
Can AP - 070317								
Can AQ - 070317								
Can AR - 070317								
Can AS - 070317								
Can AT - 070317								
Can AU - 070317								
Can AV - 070317								
Can AW - 070317								
Can AX - 070317								
Can AY - 070317								
Can AZ - 070317								
Can BA - 070317								
Can BB - 070317								
Can BC - 070317								
Can BD - 070317								
Can BE - 070317								
Can BF - 070317								
Can BG - 070317								
Can BH - 070317								
Can BI - 070317								
Can BJ - 070317								
Can BK - 070317								
Can BL - 070317								
Can BM - 070317								
Can BN - 070317								
Can BO - 070317								
Can BP - 070317								
Can BQ - 070317								
Can BR - 070317								
Can BS - 070317								
Can BT - 070317								
Can BU - 070317								
Can BV - 070317								
Can BW - 070317								
Can BX - 070317								
Can BY - 070317								
Can BZ - 070317								
Can CA - 070317								
Can CB - 070317								
Can CC - 070317								
Can CD - 070317								
Can CE - 070317								
Can CF - 070317								
Can CG - 070317								
Can CH - 070317								
Can CI - 070317								
Can CJ - 070317								
Can CK - 070317								
Can CL - 070317								
Can CM - 070317								
Can CN - 070317								
Can CO - 070317								
Can CP - 070317								
Can CQ - 070317								
Can CR - 070317								
Can CS - 070317								
Can CT - 070317								
Can CU - 070317								
Can CV - 070317								
Can CW - 070317								
Can CX - 070317								
Can CY - 070317								
Can CZ - 070317								
Can DA - 070317								
Can DB - 070317								
Can DC - 070317								
Can DD - 070317								
Can DE - 070317								
Can DF - 070317								
Can DG - 070317								
Can DH - 070317								
Can DI - 070317								
Can DJ - 070317								
Can DK - 070317								
Can DL - 070317								
Can DM - 070317								
Can DN - 070317								
Can DO - 070317								
Can DP - 070317								
Can DQ - 070317								
Can DR - 070317								
Can DS - 070317								
Can DT - 070317								
Can DU - 070317								
Can DV - 070317								
Can DW - 070317								
Can DX - 070317								
Can DY - 070317								
Can DZ - 070317								
Can EA - 070317								
Can EB - 070317								
Can EC - 070317								
Can ED - 070317								
Can EE - 070317								
Can EF - 070317								
Can EG - 070317								
Can EH - 070317								
Can EI - 070317								
Can EJ - 070317								
Can EK - 070317								
Can EL - 070317								
Can EM - 070317								
Can EN - 070317								
Can EO - 070317								
Can EP - 070317								
Can EQ - 070317								
Can ER - 070317								
Can ES - 070317								
Can ET - 070317								
Can EU - 070317								
Can EV - 070317								
Can EW - 070317								
Can EX - 070317								
Can EY - 070317								
Can EZ - 070317								
Can FA - 070317								
Can FB - 070317								
Can FC - 070317								
Can FD - 070317								
Can FE - 070317								
Can FF - 070317								
Can FG - 070317								
Can FH - 070317								
Can FI - 070317								
Can FJ - 070317								
Can FK - 070317								
Can FL - 070317								
Can FM - 070317								
Can FN - 070317								
Can FO - 070317								
Can FP - 070317								
Can FQ - 070317								
Can FR - 070317								
Can FS - 070317								
Can FT - 070317								
Can FU - 070317								
Can FV - 070317								
Can FW - 070317								
Can FX - 070317								
Can FY - 070317								
Can FZ - 070317								
Can GA - 070317								
Can GB - 070317								
Can GC - 070317								
Can GD - 070317								
Can GE - 070317								
Can GF - 070317								
Can GG - 070317								
Can GH - 070317								
Can GI - 070317								
Can GJ - 070317								
Can GK - 070317								
Can GL - 070317								
Can GM - 070317								
Can GN - 070317								
Can GO - 070317								
Can GP - 070317								
Can GQ - 070317								
Can GR - 070317								
Can GS - 070317								
Can GT - 070317								
Can GU - 070317								
Can GV - 070317								
Can GW - 070317								
Can GX - 070317								
Can GY - 070317								
Can GZ - 070317								
Can HA - 070317								

ALS Environmental Sample Acceptance Check Form

Client: RAPCA Work order: P1703245
 Project: Community Air Toxics Monitoring 2017 / 2017-1
 Sample(s) received on: 7/7/17 Date opened: 7/7/17 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1703245-001.01	6.0 L Silonite Can					
P1703245-002.01	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers): _____

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: RAPCA
Client Sample ID: Can A - 070317
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703245
 ALS Sample ID: P1703245-001

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: AS00880

Date Collected: 7/4/17
 Time Collected: 07:22
 Date Received: 7/7/17
 Date Analyzed: 7/7/17
 Time Analyzed: 14:40
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -5.57 Final Pressure (psig): 3.73

Canister Dilution Factor: 2.02

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	14	ND	10	
463-58-1	Carbonyl Sulfide	ND	25	ND	10	
74-93-1	Methyl Mercaptan	ND	20	ND	10	
75-08-1	Ethyl Mercaptan	ND	26	ND	10	
75-18-3	Dimethyl Sulfide	ND	26	ND	10	
75-15-0	Carbon Disulfide	ND	16	ND	5.1	
75-33-2	Isopropyl Mercaptan	ND	31	ND	10	
75-66-1	tert-Butyl Mercaptan	ND	37	ND	10	
107-03-9	n-Propyl Mercaptan	ND	31	ND	10	
624-89-5	Ethyl Methyl Sulfide	ND	31	ND	10	
110-02-1	Thiophene	ND	35	ND	10	
513-44-0	Isobutyl Mercaptan	ND	37	ND	10	
352-93-2	Diethyl Sulfide	ND	37	ND	10	
109-79-5	n-Butyl Mercaptan	ND	37	ND	10	
624-92-0	Dimethyl Disulfide	ND	19	ND	5.1	
616-44-4	3-Methylthiophene	ND	41	ND	10	
110-01-0	Tetrahydrothiophene	ND	36	ND	10	
638-02-8	2,5-Dimethylthiophene	ND	46	ND	10	
872-55-9	2-Ethylthiophene	ND	46	ND	10	
110-81-6	Diethyl Disulfide	ND	25	ND	5.1	

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 - 070317
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703245
 ALS Sample ID: P1703245-002

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: AS01168

Date Collected: 7/4/17
 Time Collected: 07:36
 Date Received: 7/7/17
 Date Analyzed: 7/7/17
 Time Analyzed: 14:54
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -7.71 Final Pressure (psig): 4.50

Canister Dilution Factor: 2.75

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	19	ND	14	
463-58-1	Carbonyl Sulfide	ND	34	ND	14	
74-93-1	Methyl Mercaptan	ND	27	ND	14	
75-08-1	Ethyl Mercaptan	ND	35	ND	14	
75-18-3	Dimethyl Sulfide	ND	35	ND	14	
75-15-0	Carbon Disulfide	ND	21	ND	6.9	
75-33-2	Isopropyl Mercaptan	ND	43	ND	14	
75-66-1	tert-Butyl Mercaptan	ND	51	ND	14	
107-03-9	n-Propyl Mercaptan	ND	43	ND	14	
624-89-5	Ethyl Methyl Sulfide	ND	43	ND	14	
110-02-1	Thiophene	ND	47	ND	14	
513-44-0	Isobutyl Mercaptan	ND	51	ND	14	
352-93-2	Diethyl Sulfide	ND	51	ND	14	
109-79-5	n-Butyl Mercaptan	ND	51	ND	14	
624-92-0	Dimethyl Disulfide	ND	26	ND	6.9	
616-44-4	3-Methylthiophene	ND	55	ND	14	
110-01-0	Tetrahydrothiophene	ND	50	ND	14	
638-02-8	2,5-Dimethylthiophene	ND	63	ND	14	
872-55-9	2-Ethylthiophene	ND	63	ND	14	
110-81-6	Diethyl Disulfide	ND	34	ND	6.9	

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: P1703245
 ALS Sample ID: P170707-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: 7/07/17
 Time Analyzed: 07:59
 Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m ³	MRL µg/m ³	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: P1703245
ALS Sample ID: P170707-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: 7/07/17
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	1,010	101	81-141	
463-58-1	Carbonyl Sulfide	1,000	1,090	109	81-147	
74-93-1	Methyl Mercaptan	1,000	1,070	107	80-144	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: RAPCA

Client Sample ID: Can A - 070317

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

ALS Project ID: P1703245

ALS Sample ID: P1703245-001

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: AS00880

Date Collected: 7/4/17

Date Received: 7/7/17

Date Analyzed: 7/7/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.57 Final Pressure (psig): 3.73

Canister Dilution Factor: 2.02

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	1.1	1.0	0.28	0.66	0.59	0.16	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	1.0	0.34	0.43	0.20	0.069	
74-87-3	Chloromethane	0.31	1.0	0.30	0.15	0.49	0.15	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.38	ND	0.14	0.055	
75-01-4	Vinyl Chloride	ND	1.0	0.34	ND	0.40	0.13	
106-99-0	1,3-Butadiene	ND	1.0	0.44	ND	0.46	0.20	
74-83-9	Bromomethane	ND	1.0	0.38	ND	0.26	0.099	
75-00-3	Chloroethane	ND	1.0	0.34	ND	0.38	0.13	
67-64-1	Acetone	10	10	1.6	4.2	4.3	0.66	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	1.0	0.34	0.20	0.18	0.061	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.5	10	0.85	1.0	4.1	0.35	J
75-35-4	1,1-Dichloroethene	ND	1.0	0.34	ND	0.25	0.087	
75-09-2	Methylene Chloride	0.46	1.0	0.34	0.13	0.29	0.099	J
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.48	1.0	0.34	0.062	0.13	0.045	J
75-15-0	Carbon Disulfide	ND	10	0.30	ND	3.2	0.097	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.38	ND	0.25	0.097	
75-34-3	1,1-Dichloroethane	ND	1.0	0.32	ND	0.25	0.080	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	0.34	ND	0.28	0.095	
108-05-4	Vinyl Acetate	ND	10	1.3	ND	2.9	0.37	
78-93-3	2-Butanone (MEK)	1.0	10	0.42	0.35	3.4	0.14	J
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.32	ND	0.25	0.082	

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 - 070317

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

ALS Project ID: P1703245

ALS Sample ID: P1703245-001

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: AS00880

Date Collected: 7/4/17

Date Received: 7/7/17

Date Analyzed: 7/7/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.57 Final Pressure (psig): 3.73

Canister Dilution Factor: 2.02

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	2.0	0.71	ND	0.56	0.20	
110-54-3	n-Hexane	0.56	1.0	0.30	0.16	0.29	0.086	J
67-66-3	Chloroform	ND	1.0	0.34	ND	0.21	0.070	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.40	ND	0.34	0.14	
107-06-2	1,2-Dichloroethane	ND	1.0	0.32	ND	0.25	0.080	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	ND	0.19	0.063	
71-43-2	Benzene	0.56	1.0	0.32	0.18	0.32	0.10	J
56-23-5	Carbon Tetrachloride	0.36	1.0	0.30	0.058	0.16	0.048	J
110-82-7	Cyclohexane	ND	2.0	0.59	ND	0.59	0.17	
78-87-5	1,2-Dichloropropane	ND	1.0	0.32	ND	0.22	0.070	
75-27-4	Bromodichloromethane	ND	1.0	0.30	ND	0.15	0.045	
79-01-6	Trichloroethene	ND	1.0	0.28	ND	0.19	0.053	
123-91-1	1,4-Dioxane	ND	1.0	0.32	ND	0.28	0.090	
142-82-5	n-Heptane	ND	1.0	0.34	ND	0.25	0.084	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.28	ND	0.22	0.062	
108-10-1	4-Methyl-2-pentanone	ND	1.0	0.32	ND	0.25	0.079	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.32	ND	0.22	0.071	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ND	0.19	0.059	
108-88-3	Toluene	1.3	1.0	0.34	0.35	0.27	0.091	
591-78-6	2-Hexanone	ND	1.0	0.32	ND	0.25	0.079	

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 - 070317

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

ALS Project ID: P1703245

ALS Sample ID: P1703245-001

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: AS00880

Date Collected: 7/4/17

Date Received: 7/7/17

Date Analyzed: 7/7/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.57 Final Pressure (psig): 3.73

Canister Dilution Factor: 2.02

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	1.0	0.32	ND	0.12	0.038	
106-93-4	1,2-Dibromoethane	ND	1.0	0.32	ND	0.13	0.042	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ND	0.15	0.042	
108-90-7	Chlorobenzene	ND	1.0	0.32	ND	0.22	0.070	
100-41-4	Ethylbenzene	ND	1.0	0.32	ND	0.23	0.074	
179601-23-1	m,p-Xylenes	0.64	2.0	0.61	0.15	0.47	0.14	J
75-25-2	Bromoform	ND	1.0	0.30	ND	0.098	0.029	
100-42-5	Styrene	ND	1.0	0.30	ND	0.24	0.071	
95-47-6	o-Xylene	ND	1.0	0.30	ND	0.23	0.070	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ND	0.15	0.044	
98-82-8	Cumene	ND	1.0	0.30	ND	0.21	0.062	
622-96-8	4-Ethyltoluene	ND	1.0	0.32	ND	0.21	0.066	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.32	ND	0.21	0.066	
95-63-6	1,2,4-Trimethylbenzene	0.36	1.0	0.30	0.073	0.21	0.062	J
100-44-7	Benzyl Chloride	ND	1.0	0.22	ND	0.20	0.043	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.30	ND	0.17	0.050	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.28	ND	0.17	0.047	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.30	ND	0.17	0.050	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.32	ND	0.14	0.044	
91-20-3	Naphthalene	ND	1.0	0.36	ND	0.19	0.069	
87-68-3	Hexachlorobutadiene	ND	1.0	0.28	ND	0.095	0.027	

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 1 of 3

Client: RAPCA

Client Sample ID: Can B - 070317

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

ALS Project ID: P1703245

ALS Sample ID: P1703245-002

Test Code: EPA TO-15

Date Collected: 7/4/17

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

Date Received: 7/7/17

Analyst: Lusine Hakobyan

Date Analyzed: 7/7/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01168

Initial Pressure (psig): -7.71 Final Pressure (psig): 4.50

Canister Dilution Factor: 2.75

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	1.2	1.4	0.39	0.73	0.80	0.22	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	1.4	0.47	0.42	0.28	0.095	
74-87-3	Chloromethane	ND	1.4	0.41	ND	0.67	0.20	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.4	0.52	ND	0.20	0.075	
75-01-4	Vinyl Chloride	ND	1.4	0.47	ND	0.54	0.18	
106-99-0	1,3-Butadiene	ND	1.4	0.61	ND	0.62	0.27	
74-83-9	Bromomethane	ND	1.4	0.52	ND	0.35	0.13	
75-00-3	Chloroethane	ND	1.4	0.47	ND	0.52	0.18	
67-64-1	Acetone	12	14	2.1	5.1	5.8	0.89	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.1	1.4	0.47	0.20	0.24	0.083	J
67-63-0	2-Propanol (Isopropyl Alcohol)	2.9	14	1.2	1.2	5.6	0.47	J
75-35-4	1,1-Dichloroethene	ND	1.4	0.47	ND	0.35	0.12	
75-09-2	Methylene Chloride	0.91	1.4	0.47	0.26	0.40	0.13	J
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	1.4	0.47	ND	0.18	0.061	
75-15-0	Carbon Disulfide	ND	14	0.41	ND	4.4	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.52	ND	0.35	0.13	
75-34-3	1,1-Dichloroethane	ND	1.4	0.44	ND	0.34	0.11	
1634-04-4	Methyl tert-Butyl Ether	ND	1.4	0.47	ND	0.38	0.13	
108-05-4	Vinyl Acetate	ND	14	1.8	ND	3.9	0.51	
78-93-3	2-Butanone (MEK)	1.2	14	0.58	0.41	4.7	0.20	J
156-59-2	cis-1,2-Dichloroethene	ND	1.4	0.44	ND	0.35	0.11	

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 - 070317

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

ALS Project ID: P1703245

ALS Sample ID: P1703245-002

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: AS01168

Date Collected: 7/4/17

Date Received: 7/7/17

Date Analyzed: 7/7/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.71 Final Pressure (psig): 4.50

Canister Dilution Factor: 2.75

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	1.7	2.8	0.96	0.48	0.76	0.27	J
110-54-3	n-Hexane	0.62	1.4	0.41	0.18	0.39	0.12	J
67-66-3	Chloroform	ND	1.4	0.47	ND	0.28	0.096	
109-99-9	Tetrahydrofuran (THF)	ND	1.4	0.55	ND	0.47	0.19	
107-06-2	1,2-Dichloroethane	ND	1.4	0.44	ND	0.34	0.11	
71-55-6	1,1,1-Trichloroethane	ND	1.4	0.47	ND	0.25	0.086	
71-43-2	Benzene	0.47	1.4	0.44	0.15	0.43	0.14	J
56-23-5	Carbon Tetrachloride	ND	1.4	0.41	ND	0.22	0.066	
110-82-7	Cyclohexane	ND	2.8	0.80	ND	0.80	0.23	
78-87-5	1,2-Dichloropropane	ND	1.4	0.44	ND	0.30	0.095	
75-27-4	Bromodichloromethane	ND	1.4	0.41	ND	0.21	0.062	
79-01-6	Trichloroethene	ND	1.4	0.39	ND	0.26	0.072	
123-91-1	1,4-Dioxane	ND	1.4	0.44	ND	0.38	0.12	
142-82-5	n-Heptane	ND	1.4	0.47	ND	0.34	0.11	
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	0.39	ND	0.30	0.085	
108-10-1	4-Methyl-2-pentanone	ND	1.4	0.44	ND	0.34	0.11	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	0.44	ND	0.30	0.097	
79-00-5	1,1,2-Trichloroethane	ND	1.4	0.44	ND	0.25	0.081	
108-88-3	Toluene	2.3	1.4	0.47	0.62	0.37	0.12	
591-78-6	2-Hexanone	ND	1.4	0.44	ND	0.34	0.11	

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 - 070317

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

ALS Project ID: P1703245

ALS Sample ID: P1703245-002

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: AS01168

Date Collected: 7/4/17

Date Received: 7/7/17

Date Analyzed: 7/7/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -7.71 Final Pressure (psig): 4.50

Canister Dilution Factor: 2.75

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	1.4	0.44	ND	0.16	0.052	
106-93-4	1,2-Dibromoethane	ND	1.4	0.44	ND	0.18	0.057	
127-18-4	Tetrachloroethene	ND	1.4	0.39	ND	0.20	0.057	
108-90-7	Chlorobenzene	ND	1.4	0.44	ND	0.30	0.096	
100-41-4	Ethylbenzene	ND	1.4	0.44	ND	0.32	0.10	
179601-23-1	m,p-Xylenes	1.2	2.8	0.83	0.28	0.63	0.19	J
75-25-2	Bromoform	ND	1.4	0.41	ND	0.13	0.040	
100-42-5	Styrene	ND	1.4	0.41	ND	0.32	0.097	
95-47-6	o-Xylene	0.45	1.4	0.41	0.10	0.32	0.095	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.4	0.41	ND	0.20	0.060	
98-82-8	Cumene	ND	1.4	0.41	ND	0.28	0.084	
622-96-8	4-Ethyltoluene	ND	1.4	0.44	ND	0.28	0.090	
108-67-8	1,3,5-Trimethylbenzene	ND	1.4	0.44	ND	0.28	0.090	
95-63-6	1,2,4-Trimethylbenzene	ND	1.4	0.41	ND	0.28	0.084	
100-44-7	Benzyl Chloride	ND	1.4	0.30	ND	0.27	0.058	
541-73-1	1,3-Dichlorobenzene	ND	1.4	0.41	ND	0.23	0.069	
106-46-7	1,4-Dichlorobenzene	ND	1.4	0.39	ND	0.23	0.064	
95-50-1	1,2-Dichlorobenzene	ND	1.4	0.41	ND	0.23	0.069	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	0.44	ND	0.19	0.059	
91-20-3	Naphthalene	ND	1.4	0.50	ND	0.26	0.094	
87-68-3	Hexachlorobutadiene	ND	1.4	0.39	ND	0.13	0.036	

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 1 of 3

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: P1703245
 ALS Sample ID: P170707-MB

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

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/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

Page 2 of 3

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

ALS Project ID: P1703245
 ALS Sample ID: P170707-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: 7/7/17
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	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

Page 3 of 3

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

ALS Project ID: P1703245
 ALS Sample ID: P170707-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: 7/7/17
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	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: P1703245

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: 7/4/17
 Date(s) Received: 7/7/17
 Date(s) Analyzed: 7/7/17

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	P170707-MB	88	101	99	70-130	
Lab Control Sample	P170707-LCS	86	101	100	70-130	
Can A - 070317	P1703245-001	87	102	99	70-130	
Can B - 070317	P1703245-002	88	102	98	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: P1703245
 ALS Sample ID: P170707-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: 7/7/17
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	210	220	105	52-127	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	198	94	68-109	
74-87-3	Chloromethane	210	230	110	51-130	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	196	93	66-114	
75-01-4	Vinyl Chloride	210	221	105	61-125	
106-99-0	1,3-Butadiene	210	211	100	62-144	
74-83-9	Bromomethane	210	206	98	73-123	
75-00-3	Chloroethane	210	245	117	69-122	
67-64-1	Acetone	1,060	1130	107	57-117	
75-69-4	Trichlorofluoromethane (CFC 11)	210	198	94	63-98	
67-63-0	2-Propanol (Isopropyl Alcohol)	424	432	102	66-121	
75-35-4	1,1-Dichloroethene	213	229	108	76-118	
75-09-2	Methylene Chloride	212	232	109	60-118	
76-13-1	Trichlorotrifluoroethane (CFC 113)	212	212	100	73-114	
75-15-0	Carbon Disulfide	213	241	113	57-102	L
156-60-5	trans-1,2-Dichloroethene	213	233	109	74-123	
75-34-3	1,1-Dichloroethane	212	230	108	69-111	
1634-04-4	Methyl tert-Butyl Ether	213	216	101	69-113	
108-05-4	Vinyl Acetate	1,060	1260	119	76-128	
78-93-3	2-Butanone (MEK)	212	235	111	63-127	
156-59-2	cis-1,2-Dichloroethene	212	226	107	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: P1703245
 ALS Sample ID: P170707-LCS

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

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
141-78-6	Ethyl Acetate	426	486	114	68-127	
110-54-3	n-Hexane	213	229	108	55-116	
67-66-3	Chloroform	212	211	100	70-109	
109-99-9	Tetrahydrofuran (THF)	213	224	105	72-113	
107-06-2	1,2-Dichloroethane	212	190	90	69-113	
71-55-6	1,1,1-Trichloroethane	212	198	93	72-115	
71-43-2	Benzene	212	221	104	65-107	
56-23-5	Carbon Tetrachloride	213	197	92	71-113	
110-82-7	Cyclohexane	425	460	108	71-115	
78-87-5	1,2-Dichloropropane	212	242	114	71-115	
75-27-4	Bromodichloromethane	214	212	99	75-118	
79-01-6	Trichloroethene	212	219	103	68-114	
123-91-1	1,4-Dioxane	213	232	109	81-131	
142-82-5	n-Heptane	213	234	110	68-116	
10061-01-5	cis-1,3-Dichloropropene	210	232	110	77-126	
108-10-1	4-Methyl-2-pentanone	213	235	110	69-126	
10061-02-6	trans-1,3-Dichloropropene	213	230	108	79-125	
79-00-5	1,1,2-Trichloroethane	212	228	108	75-119	
108-88-3	Toluene	212	225	106	59-118	
591-78-6	2-Hexanone	213	205	96	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: P1703245
 ALS Sample ID: P170707-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: 7/7/17
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
124-48-1	Dibromochloromethane	213	211	99	74-136	
106-93-4	1,2-Dibromoethane	212	223	105	73-131	
127-18-4	Tetrachloroethene	213	212	100	65-130	
108-90-7	Chlorobenzene	212	222	105	68-120	
100-41-4	Ethylbenzene	212	216	102	68-122	
179601-23-1	m,p-Xylenes	424	420	99	68-123	
75-25-2	Bromoform	212	209	99	69-130	
100-42-5	Styrene	212	230	108	71-133	
95-47-6	o-Xylene	212	209	99	68-122	
79-34-5	1,1,2,2-Tetrachloroethane	212	229	108	69-130	
98-82-8	Cumene	212	213	100	70-123	
622-96-8	4-Ethyltoluene	212	219	103	67-130	
108-67-8	1,3,5-Trimethylbenzene	212	209	99	67-124	
95-63-6	1,2,4-Trimethylbenzene	212	206	97	67-129	
100-44-7	Benzyl Chloride	212	227	107	79-138	
541-73-1	1,3-Dichlorobenzene	212	217	102	65-136	
106-46-7	1,4-Dichlorobenzene	213	220	103	66-141	
95-50-1	1,2-Dichlorobenzene	212	217	102	67-136	
120-82-1	1,2,4-Trichlorobenzene	212	237	112	64-134	
91-20-3	Naphthalene	214	255	119	62-136	
87-68-3	Hexachlorobutadiene	213	209	98	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.