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LABORATORY REPORT

July 8, 2017

Stephanie Madden
RAPCA
117 S Main Street
Dayton, OH 45422

RE: Community Air Toxics Monitoring 2017 / 2017-1

Dear Stephanie:

Your report number P1702774 has been amended for the samples submitted to our laboratory on June 8, 2017. The compound, ally chloride, was inadvertently reported instead trichlorotrifluoroethane (CFC 113). The corrected pages have been indicated by the "Revised Page" footer located at the bottom right of the page.

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 10:05 am, 07/08/17

Kate Kaneko
Project Manager



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

Service Request No: P1702774

CASE NARRATIVE

The samples were received intact under chain of custody on June 8, 2017 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

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

Volatile Organic Compound Analysis

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

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

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

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	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	T104704413-16-7
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: P1702774

Date Received: 6/8/2017
 Time Received: 09:21

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 - 060617	P1702774-001	Air	6/7/2017	07:57	AS00786	-3.84	3.76	X	X
Can B - 060617	P1702774-002	Air	6/7/2017	08:10	AS00892	-4.81	3.72	X	X

**ALS Environmental
Sample Acceptance Check Form**

Client: RAPCA Work order: P1702774
 Project: Community Air Toxics Monitoring 2017 / 2017-1
 Sample(s) received on: 6/8/17 Date opened: 6/8/17 by: SANDERSON

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
P1702774-001.01	6.0 L Silonite Can					
P1702774-002.01	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 - 060617
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1702774
 ALS Sample ID: P1702774-001

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: AS00786

Date Collected: 6/7/17
 Time Collected: 07:57
 Date Received: 6/8/17
 Date Analyzed: 6/9/17
 Time Analyzed: 08:36
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -3.84 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	12	ND	8.5	
463-58-1	Carbonyl Sulfide	ND	21	ND	8.5	
74-93-1	Methyl Mercaptan	ND	17	ND	8.5	
75-08-1	Ethyl Mercaptan	ND	22	ND	8.5	
75-18-3	Dimethyl Sulfide	ND	22	ND	8.5	
75-15-0	Carbon Disulfide	ND	13	ND	4.3	
75-33-2	Isopropyl Mercaptan	ND	26	ND	8.5	
75-66-1	tert-Butyl Mercaptan	ND	31	ND	8.5	
107-03-9	n-Propyl Mercaptan	ND	26	ND	8.5	
624-89-5	Ethyl Methyl Sulfide	ND	26	ND	8.5	
110-02-1	Thiophene	ND	29	ND	8.5	
513-44-0	Isobutyl Mercaptan	ND	31	ND	8.5	
352-93-2	Diethyl Sulfide	ND	31	ND	8.5	
109-79-5	n-Butyl Mercaptan	ND	31	ND	8.5	
624-92-0	Dimethyl Disulfide	ND	16	ND	4.3	
616-44-4	3-Methylthiophene	ND	34	ND	8.5	
110-01-0	Tetrahydrothiophene	ND	31	ND	8.5	
638-02-8	2,5-Dimethylthiophene	ND	39	ND	8.5	
872-55-9	2-Ethylthiophene	ND	39	ND	8.5	
110-81-6	Diethyl Disulfide	ND	21	ND	4.3	

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

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Client: RAPCA
Client Sample ID: Can B - 060617
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1702774
 ALS Sample ID: P1702774-002

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: AS00892

Date Collected: 6/7/17
 Time Collected: 08:10
 Date Received: 6/8/17
 Date Analyzed: 6/9/17
 Time Analyzed: 08:54
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -4.81 Final Pressure (psig): 3.72

Canister Dilution Factor: 1.86

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	13	ND	9.3	
463-58-1	Carbonyl Sulfide	ND	23	ND	9.3	
74-93-1	Methyl Mercaptan	ND	18	ND	9.3	
75-08-1	Ethyl Mercaptan	ND	24	ND	9.3	
75-18-3	Dimethyl Sulfide	ND	24	ND	9.3	
75-15-0	Carbon Disulfide	ND	14	ND	4.7	
75-33-2	Isopropyl Mercaptan	ND	29	ND	9.3	
75-66-1	tert-Butyl Mercaptan	ND	34	ND	9.3	
107-03-9	n-Propyl Mercaptan	ND	29	ND	9.3	
624-89-5	Ethyl Methyl Sulfide	ND	29	ND	9.3	
110-02-1	Thiophene	ND	32	ND	9.3	
513-44-0	Isobutyl Mercaptan	ND	34	ND	9.3	
352-93-2	Diethyl Sulfide	ND	34	ND	9.3	
109-79-5	n-Butyl Mercaptan	ND	34	ND	9.3	
624-92-0	Dimethyl Disulfide	ND	18	ND	4.7	
616-44-4	3-Methylthiophene	ND	37	ND	9.3	
110-01-0	Tetrahydrothiophene	ND	34	ND	9.3	
638-02-8	2,5-Dimethylthiophene	ND	43	ND	9.3	
872-55-9	2-Ethylthiophene	ND	43	ND	9.3	
110-81-6	Diethyl Disulfide	ND	23	ND	4.7	

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

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

ALS Project ID: P1702774
 ALS Sample ID: P170609-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: 6/09/17
 Time Analyzed: 08:17
 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: P1702774
ALS Sample ID: P170609-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: 6/09/17
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	916	92	75-148	
463-58-1	Carbonyl Sulfide	1,000	965	97	70-137	
74-93-1	Methyl Mercaptan	1,000	916	92	72-139	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: RAPCA

Client Sample ID: Can A - 060617

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

ALS Project ID: P1702774

ALS Sample ID: P1702774-001

Test Code: EPA TO-15

Date Collected: 6/7/17

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

Date Received: 6/8/17

Analyst: Lusine Hakobyan

Date Analyzed: 6/9/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00786

Initial Pressure (psig): -3.84 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.70

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	0.34	0.85	0.24	0.20	0.49	0.14	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.85	0.29	0.45	0.17	0.058	
74-87-3	Chloromethane	0.36	0.85	0.26	0.17	0.41	0.12	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.85	0.32	ND	0.12	0.046	
75-01-4	Vinyl Chloride	ND	0.85	0.29	ND	0.33	0.11	
106-99-0	1,3-Butadiene	ND	0.85	0.37	ND	0.38	0.17	
74-83-9	Bromomethane	ND	0.85	0.32	ND	0.22	0.083	
75-00-3	Chloroethane	ND	0.85	0.29	ND	0.32	0.11	
67-64-1	Acetone	6.0	8.5	1.3	2.5	3.6	0.55	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.2	0.85	0.29	0.21	0.15	0.051	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	8.5	0.71	ND	3.5	0.29	
75-35-4	1,1-Dichloroethene	ND	0.85	0.29	ND	0.21	0.073	
75-09-2	Methylene Chloride	0.39	0.85	0.29	0.11	0.24	0.083	J
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.48	0.85	0.29	0.063	0.11	0.038	J
75-15-0	Carbon Disulfide	ND	8.5	0.26	ND	2.7	0.082	
156-60-5	trans-1,2-Dichloroethene	ND	0.85	0.32	ND	0.21	0.081	
75-34-3	1,1-Dichloroethane	ND	0.85	0.27	ND	0.21	0.067	
1634-04-4	Methyl tert-Butyl Ether	ND	0.85	0.29	ND	0.24	0.080	
108-05-4	Vinyl Acetate	ND	8.5	1.1	ND	2.4	0.31	
78-93-3	2-Butanone (MEK)	0.53	8.5	0.36	0.18	2.9	0.12	J
156-59-2	cis-1,2-Dichloroethene	ND	0.85	0.27	ND	0.21	0.069	

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 - 060617

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

ALS Project ID: P1702774

ALS Sample ID: P1702774-001

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: AS00786

Date Collected: 6/7/17

Date Received: 6/8/17

Date Analyzed: 6/9/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.84 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.70

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	1.3	1.7	0.60	0.35	0.47	0.17	J
110-54-3	n-Hexane	ND	0.85	0.26	ND	0.24	0.072	
67-66-3	Chloroform	ND	0.85	0.29	ND	0.17	0.059	
109-99-9	Tetrahydrofuran (THF)	ND	0.85	0.34	ND	0.29	0.12	
107-06-2	1,2-Dichloroethane	ND	0.85	0.27	ND	0.21	0.067	
71-55-6	1,1,1-Trichloroethane	ND	0.85	0.29	ND	0.16	0.053	
71-43-2	Benzene	0.52	0.85	0.27	0.16	0.27	0.085	J
56-23-5	Carbon Tetrachloride	0.38	0.85	0.26	0.061	0.14	0.041	J
110-82-7	Cyclohexane	ND	1.7	0.49	ND	0.49	0.14	
78-87-5	1,2-Dichloropropane	ND	0.85	0.27	ND	0.18	0.059	
75-27-4	Bromodichloromethane	ND	0.85	0.26	ND	0.13	0.038	
79-01-6	Trichloroethene	ND	0.85	0.24	ND	0.16	0.044	
123-91-1	1,4-Dioxane	ND	0.85	0.27	ND	0.24	0.076	
142-82-5	n-Heptane	ND	0.85	0.29	ND	0.21	0.071	
10061-01-5	cis-1,3-Dichloropropene	ND	0.85	0.24	ND	0.19	0.052	
108-10-1	4-Methyl-2-pentanone	ND	0.85	0.27	ND	0.21	0.066	
10061-02-6	trans-1,3-Dichloropropene	ND	0.85	0.27	ND	0.19	0.060	
79-00-5	1,1,2-Trichloroethane	ND	0.85	0.27	ND	0.16	0.050	
108-88-3	Toluene	0.64	0.85	0.29	0.17	0.23	0.077	J
591-78-6	2-Hexanone	ND	0.85	0.27	ND	0.21	0.066	

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

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

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

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: RAPCA

Client Sample ID: Can A - 060617

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

ALS Project ID: P1702774

ALS Sample ID: P1702774-001

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: AS00786

Date Collected: 6/7/17

Date Received: 6/8/17

Date Analyzed: 6/9/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.84 Final Pressure (psig): 3.76

Canister Dilution Factor: 1.70

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	0.85	0.27	ND	0.10	0.032	
106-93-4	1,2-Dibromoethane	ND	0.85	0.27	ND	0.11	0.035	
127-18-4	Tetrachloroethene	ND	0.85	0.24	ND	0.13	0.035	
108-90-7	Chlorobenzene	ND	0.85	0.27	ND	0.18	0.059	
100-41-4	Ethylbenzene	ND	0.85	0.27	ND	0.20	0.063	
179601-23-1	m,p-Xylenes	ND	1.7	0.51	ND	0.39	0.12	
75-25-2	Bromoform	ND	0.85	0.26	ND	0.082	0.025	
100-42-5	Styrene	ND	0.85	0.26	ND	0.20	0.060	
95-47-6	o-Xylene	ND	0.85	0.26	ND	0.20	0.059	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.85	0.26	ND	0.12	0.037	
98-82-8	Cumene	ND	0.85	0.26	ND	0.17	0.052	
622-96-8	4-Ethyltoluene	ND	0.85	0.27	ND	0.17	0.055	
108-67-8	1,3,5-Trimethylbenzene	ND	0.85	0.27	ND	0.17	0.055	
95-63-6	1,2,4-Trimethylbenzene	ND	0.85	0.26	ND	0.17	0.052	
100-44-7	Benzyl Chloride	ND	0.85	0.19	ND	0.16	0.036	
541-73-1	1,3-Dichlorobenzene	ND	0.85	0.26	ND	0.14	0.042	
106-46-7	1,4-Dichlorobenzene	ND	0.85	0.24	ND	0.14	0.040	
95-50-1	1,2-Dichlorobenzene	ND	0.85	0.26	ND	0.14	0.042	
120-82-1	1,2,4-Trichlorobenzene	ND	0.85	0.27	ND	0.11	0.037	
91-20-3	Naphthalene	ND	0.85	0.31	ND	0.16	0.058	
87-68-3	Hexachlorobutadiene	ND	0.85	0.24	ND	0.080	0.022	

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

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

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: RAPCA

Client Sample ID: Can B - 060617

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

ALS Project ID: P1702774

ALS Sample ID: P1702774-002

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: AS00892

Date Collected: 6/7/17

Date Received: 6/8/17

Date Analyzed: 6/9/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.81 Final Pressure (psig): 3.72

Canister Dilution Factor: 1.86

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	0.93	0.26	ND	0.54	0.15	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.93	0.32	0.45	0.19	0.064	
74-87-3	Chloromethane	0.34	0.93	0.28	0.16	0.45	0.14	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.93	0.35	ND	0.13	0.051	
75-01-4	Vinyl Chloride	ND	0.93	0.32	ND	0.36	0.12	
106-99-0	1,3-Butadiene	ND	0.93	0.41	ND	0.42	0.19	
74-83-9	Bromomethane	ND	0.93	0.35	ND	0.24	0.091	
75-00-3	Chloroethane	ND	0.93	0.32	ND	0.35	0.12	
67-64-1	Acetone	6.2	9.3	1.4	2.6	3.9	0.60	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.3	0.93	0.32	0.22	0.17	0.056	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	9.3	0.78	ND	3.8	0.32	
75-35-4	1,1-Dichloroethene	ND	0.93	0.32	ND	0.23	0.080	
75-09-2	Methylene Chloride	0.37	0.93	0.32	0.11	0.27	0.091	J
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.46	0.93	0.32	0.060	0.12	0.041	J
75-15-0	Carbon Disulfide	ND	9.3	0.28	ND	3.0	0.090	
156-60-5	trans-1,2-Dichloroethene	ND	0.93	0.35	ND	0.23	0.089	
75-34-3	1,1-Dichloroethane	ND	0.93	0.30	ND	0.23	0.074	
1634-04-4	Methyl tert-Butyl Ether	ND	0.93	0.32	ND	0.26	0.088	
108-05-4	Vinyl Acetate	ND	9.3	1.2	ND	2.6	0.34	
78-93-3	2-Butanone (MEK)	0.42	9.3	0.39	0.14	3.2	0.13	J
156-59-2	cis-1,2-Dichloroethene	ND	0.93	0.30	ND	0.23	0.075	

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 - 060617

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

ALS Project ID: P1702774

ALS Sample ID: P1702774-002

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: AS00892

Date Collected: 6/7/17

Date Received: 6/8/17

Date Analyzed: 6/9/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.81 Final Pressure (psig): 3.72

Canister Dilution Factor: 1.86

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	0.71	1.9	0.65	0.20	0.52	0.18	J
110-54-3	n-Hexane	ND	0.93	0.28	ND	0.26	0.079	
67-66-3	Chloroform	ND	0.93	0.32	ND	0.19	0.065	
109-99-9	Tetrahydrofuran (THF)	ND	0.93	0.37	ND	0.32	0.13	
107-06-2	1,2-Dichloroethane	ND	0.93	0.30	ND	0.23	0.074	
71-55-6	1,1,1-Trichloroethane	ND	0.93	0.32	ND	0.17	0.058	
71-43-2	Benzene	ND	0.93	0.30	ND	0.29	0.093	
56-23-5	Carbon Tetrachloride	0.37	0.93	0.28	0.059	0.15	0.044	J
110-82-7	Cyclohexane	ND	1.9	0.54	ND	0.54	0.16	
78-87-5	1,2-Dichloropropane	ND	0.93	0.30	ND	0.20	0.064	
75-27-4	Bromodichloromethane	ND	0.93	0.28	ND	0.14	0.042	
79-01-6	Trichloroethene	ND	0.93	0.26	ND	0.17	0.048	
123-91-1	1,4-Dioxane	ND	0.93	0.30	ND	0.26	0.083	
142-82-5	n-Heptane	ND	0.93	0.32	ND	0.23	0.077	
10061-01-5	cis-1,3-Dichloropropene	ND	0.93	0.26	ND	0.20	0.057	
108-10-1	4-Methyl-2-pentanone	ND	0.93	0.30	ND	0.23	0.073	
10061-02-6	trans-1,3-Dichloropropene	ND	0.93	0.30	ND	0.20	0.066	
79-00-5	1,1,2-Trichloroethane	ND	0.93	0.30	ND	0.17	0.055	
108-88-3	Toluene	0.65	0.93	0.32	0.17	0.25	0.084	J
591-78-6	2-Hexanone	ND	0.93	0.30	ND	0.23	0.073	

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 - 060617

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

ALS Project ID: P1702774

ALS Sample ID: P1702774-002

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: AS00892

Date Collected: 6/7/17

Date Received: 6/8/17

Date Analyzed: 6/9/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.81 Final Pressure (psig): 3.72

Canister Dilution Factor: 1.86

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	0.93	0.30	ND	0.11	0.035	
106-93-4	1,2-Dibromoethane	ND	0.93	0.30	ND	0.12	0.039	
127-18-4	Tetrachloroethene	ND	0.93	0.26	ND	0.14	0.038	
108-90-7	Chlorobenzene	ND	0.93	0.30	ND	0.20	0.065	
100-41-4	Ethylbenzene	ND	0.93	0.30	ND	0.21	0.069	
179601-23-1	m,p-Xylenes	ND	1.9	0.56	ND	0.43	0.13	
75-25-2	Bromoform	ND	0.93	0.28	ND	0.090	0.027	
100-42-5	Styrene	ND	0.93	0.28	ND	0.22	0.066	
95-47-6	o-Xylene	ND	0.93	0.28	ND	0.21	0.064	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.93	0.28	ND	0.14	0.041	
98-82-8	Cumene	ND	0.93	0.28	ND	0.19	0.057	
622-96-8	4-Ethyltoluene	ND	0.93	0.30	ND	0.19	0.061	
108-67-8	1,3,5-Trimethylbenzene	ND	0.93	0.30	ND	0.19	0.061	
95-63-6	1,2,4-Trimethylbenzene	ND	0.93	0.28	ND	0.19	0.057	
100-44-7	Benzyl Chloride	ND	0.93	0.20	ND	0.18	0.040	
541-73-1	1,3-Dichlorobenzene	ND	0.93	0.28	ND	0.15	0.046	
106-46-7	1,4-Dichlorobenzene	ND	0.93	0.26	ND	0.15	0.043	
95-50-1	1,2-Dichlorobenzene	ND	0.93	0.28	ND	0.15	0.046	
120-82-1	1,2,4-Trichlorobenzene	ND	0.93	0.30	ND	0.13	0.040	
91-20-3	Naphthalene	ND	0.93	0.33	ND	0.18	0.064	
87-68-3	Hexachlorobutadiene	ND	0.93	0.26	ND	0.087	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

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

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

ALS Project ID: P1702774
ALS Sample ID: P170609-MB

Date Collected: NA
Date Received: NA
Date Analyzed: 6/9/17
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

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

ALS Project ID: P1702774
 ALS Sample ID: P170609-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: 6/9/17
 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

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

ALS Project ID: P1702774
 ALS Sample ID: P170609-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: 6/9/17
 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	0.20	0.50	0.18	0.039	0.095	0.034	J
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.

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

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: P1702774

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: 6/7/17
 Date(s) Received: 6/8/17
 Date(s) Analyzed: 6/9/17

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	P170609-MB	89	101	97	70-130	
Lab Control Sample	P170609-LCS	87	99	97	70-130	
Can A - 060617	P1702774-001	91	101	97	70-130	
Can B - 060617	P1702774-002	92	100	96	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: P1702774
 ALS Sample ID: P170609-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: 6/9/17
 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	209	100	52-127	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	185	88	68-109	
74-87-3	Chloromethane	210	208	99	51-130	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	183	87	66-114	
75-01-4	Vinyl Chloride	210	206	98	61-125	
106-99-0	1,3-Butadiene	210	206	98	62-144	
74-83-9	Bromomethane	210	191	91	73-123	
75-00-3	Chloroethane	210	225	107	69-122	
67-64-1	Acetone	1,060	1080	102	57-117	
75-69-4	Trichlorofluoromethane (CFC 11)	210	185	88	63-98	
67-63-0	2-Propanol (Isopropyl Alcohol)	424	406	96	66-121	
75-35-4	1,1-Dichloroethene	213	211	99	76-118	
75-09-2	Methylene Chloride	212	215	101	60-118	
76-13-1	Trichlorotrifluoroethane (CFC 113)	212	198	93	73-114	
75-15-0	Carbon Disulfide	213	221	104	57-102	L
156-60-5	trans-1,2-Dichloroethene	213	218	102	74-123	
75-34-3	1,1-Dichloroethane	212	214	101	69-111	
1634-04-4	Methyl tert-Butyl Ether	213	203	95	69-113	
108-05-4	Vinyl Acetate	1,060	1200	113	76-128	
78-93-3	2-Butanone (MEK)	212	217	102	63-127	
156-59-2	cis-1,2-Dichloroethene	212	212	100	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

ALS Project ID: P1702774
 ALS Sample ID: P170609-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: 6/9/17
 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	460	108	68-127	
110-54-3	n-Hexane	213	219	103	55-116	
67-66-3	Chloroform	212	196	92	70-109	
109-99-9	Tetrahydrofuran (THF)	213	208	98	72-113	
107-06-2	1,2-Dichloroethane	212	180	85	69-113	
71-55-6	1,1,1-Trichloroethane	212	188	89	72-115	
71-43-2	Benzene	212	208	98	65-107	
56-23-5	Carbon Tetrachloride	213	187	88	71-113	
110-82-7	Cyclohexane	425	435	102	71-115	
78-87-5	1,2-Dichloropropane	212	225	106	71-115	
75-27-4	Bromodichloromethane	214	200	93	75-118	
79-01-6	Trichloroethene	212	202	95	68-114	
123-91-1	1,4-Dioxane	213	219	103	81-131	
142-82-5	n-Heptane	213	221	104	68-116	
10061-01-5	cis-1,3-Dichloropropene	210	218	104	77-126	
108-10-1	4-Methyl-2-pentanone	213	221	104	69-126	
10061-02-6	trans-1,3-Dichloropropene	213	219	103	79-125	
79-00-5	1,1,2-Trichloroethane	212	215	101	75-119	
108-88-3	Toluene	212	208	98	59-118	
591-78-6	2-Hexanone	213	195	92	69-129	

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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: P1702774
 ALS Sample ID: P170609-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: 6/9/17
 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	193	91	74-136	
106-93-4	1,2-Dibromoethane	212	206	97	73-131	
127-18-4	Tetrachloroethene	213	197	92	65-130	
108-90-7	Chlorobenzene	212	204	96	68-120	
100-41-4	Ethylbenzene	212	201	95	68-122	
179601-23-1	m,p-Xylenes	424	392	92	68-123	
75-25-2	Bromoform	212	192	91	69-130	
100-42-5	Styrene	212	213	100	71-133	
95-47-6	o-Xylene	212	195	92	68-122	
79-34-5	1,1,2,2-Tetrachloroethane	212	214	101	69-130	
98-82-8	Cumene	212	198	93	70-123	
622-96-8	4-Ethyltoluene	212	206	97	67-130	
108-67-8	1,3,5-Trimethylbenzene	212	195	92	67-124	
95-63-6	1,2,4-Trimethylbenzene	212	194	92	67-129	
100-44-7	Benzyl Chloride	212	216	102	79-138	
541-73-1	1,3-Dichlorobenzene	212	202	95	65-136	
106-46-7	1,4-Dichlorobenzene	213	205	96	66-141	
95-50-1	1,2-Dichlorobenzene	212	204	96	67-136	
120-82-1	1,2,4-Trichlorobenzene	212	224	106	64-134	
91-20-3	Naphthalene	214	245	114	62-136	
87-68-3	Hexachlorobutadiene	213	200	94	60-133	

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