Wisconsin Occupational Health Laboratory
WISCONSIN STATE LABORATORY OF HYGIENE
UNIVERSITY OF WISCONSIN-MADISON

2601 Agriculture Drive
Madison, WI 53718
Phone: (800) 446-0403
Fax: (608) 224-6213
Web: wohl-lab.org

ALEX GREEN
S & R ENVIRONMENTAL CONSULTING
STE 200
5801 LOGAN ST
DENVER, CO 80216

Lab Workorder ID	378823
Visit/Project ID	EPA/BOOTS
PO	018013
Received	May 1, 2018
Reported	May 3, 2018
Report ID	5228622
Previous Report IDs	

Dear ALEX GREEN:

Enclosed are the analytical results for sample(s) received by the laboratory on May 1, 2018. All samples received were acceptable, results were not blank corrected, and all quality control met laboratory standards unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact the lab.

Sincerely,

Steve Strebel, Laboratory Director

Analyst - JOHN GLOWACKI

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Final Report

Lab ID: **378823001**	Sample ID: **4-CL-CAP**	Media: **OVS-7 TUBE**
Sampling Date: **4/29/2018**	Matrix: **Air**	Sampled Time:

Analyte	Method	Analysis Date	Air Volume	Reporting Limit	RESULT Front	Rear	Total	Air Concentration	TWA
Caprolactam (Dust and Vapor)	OSHA PV2012	5/2/2018	100 L	1.5 ug	<1.5 ug	<1.5 ug	<1.5 ug	<0.015 mg/m3	

Abbreviations:

mg = milligrams	ppm or ppmv = parts per million	/m3 = per cubic meter
ug = micrograms	ppb or ppbv = parts per billion	/ft2 = per square foot
ng = nanograms	EU = Endotoxin Units	fibers/cc = fibers per cubic centimeter

< Less Than. The analyte, if present, is at a level too low to be accurately quantitated by the method used

End of Analytical Report

The results in this report apply only to the samples, specifically listed above, and tested at the Wisconsin Occupational Health Laboratory

This report is not to be reproduced except in its entirety

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077

EMSL Order ID: 491800401

Attn: Alex Green
S&R Environmental Consulting, Inc
5801 Logan Street, #200
Denver, CO 80216

Customer ID: SREC85

Date Received: 5/1/2018

Project: EPA/Boots

Report Date: 5/3/2018

Data Analyzed: 5/1/2018

Fixed Gas Analysis by Using The Draeger CMS (Chip Measurement System)

Sample ID	Identification	Compound	Detection Limit (ppmV)	Sample Result (ppmV)
491800401-1	4-CL-TO15	Carbon dioxide	250	550
		Carbon monoxide	6.2	<6.2

K. Wolkowicz
Analyst

Marge Howley
Lab Manager

EMSL Analytical
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856)858-4800 / (856)858-4571
http://www.EMSL.com to15lab@EMSL.com

EMSL Order #: **491800401**
Customer ID: **SREC85**
Customer PO: **18013**

Attn: **Alex Green**
S&R Environmental Consulting, Inc.
5801 Logan Street, #200
Denver, CO 80216

Phone: **303-297-1645**
Fax: **303-297-1646**

Date Collected: **4/30/2018**
Date Received: **5/1/2018**

Project: **EPA/Boots**

Laboratory Report- Sample Summary

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
491800401-0001	4-CL-TO15	4/30/2018	9:30 AM

If "Preliminary Report" is displayed in the signature box; this indicates that there are samples that have not yet been analyzed, that are in a preliminary state, or that analysis is in progress but not completed at the time of report issue.

Report Date:	Report Revision	Revision Comments
5/3/2018	R0	Initial Report

Marjorie Howley

Marjorie Howley, Laboratory Manager
or other approved signatory

Test results meet all NELAP requirements unless otherwise specified.
NJDEP Certification #: 03036

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EMSL Sample #: **491800401-1**
Customer ID: **SREC85**
Customer PO: **18013**

Attn: **Alex Green**
S&R Environmental Consulting, Inc.
5801 Logan Street, #200
Denver, CO 80216

Phone: **303-297-1645**
Fax: **303-297-1646**
Date Collected: **4/30/2018**
Date Received: **5/1/2018**

Project: **EPA/Boots**
Sample ID: **4-CL-TO15**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	05/01/2018	TP	K15645.D	E0392	307.5 cc	1

Target Compound Results Summary

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3	Comments
Propylene	115-07-1	42.08	ND	1.0		ND	1.7	
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	ND	0.50		ND	2.5	
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.50		ND	3.5	
Chloromethane	74-87-3	50.49	ND	0.50		ND	1.0	
n-Butane	106-97-8	58.12	**3.8**	0.50		**9.1**	1.2	
Vinyl chloride	75-01-4	62.50	ND	0.50		ND	1.3	
1,3-Butadiene	106-99-0	54.09	ND	0.50		ND	1.1	
Bromomethane	74-83-9	94.94	ND	0.50		ND	1.9	
Chloroethane	75-00-3	64.52	ND	0.50		ND	1.3	
Ethanol	64-17-5	46.07	**40**	0.50		**75**	0.94	
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.50		ND	2.2	
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.50		ND	2.8	
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	**2.3**	0.50		**5.6**	1.2	
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.50		ND	3.8	
Acetone	67-64-1	58.08	**6.2**	0.50		**15**	1.2	
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0	
Acetonitrile	75-05-8	41.00	**27**	0.50		**45**	0.84	
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.50		ND	1.5	
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.50		ND	2.2	
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.50		ND	1.6	
Carbon disulfide	75-15-0	76.14	ND	0.50		ND	1.6	
Methylene chloride	75-09-2	84.94	ND	0.50		ND	1.7	
Acrylonitrile	107-13-1	53.00	ND	0.50		ND	1.1	
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.50		ND	1.8	
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.50		ND	2.0	
n-Hexane	110-54-3	86.17	**0.80**	0.50		**2.8**	1.8	
1,1-Dichloroethane	75-34-3	98.96	ND	0.50		ND	2.0	
Vinyl acetate	108-05-4	86.00	ND	0.50		ND	1.8	
2-Butanone(MEK)	78-93-3	72.10	**0.54**	0.50		**1.6**	1.5	
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0	
Ethyl acetate	141-78-6	88.10	**2.2**	0.50		**8.1**	1.8	
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4	
Tetrahydrofuran	109-99-9	72.11	ND	0.50		ND	1.5	
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7	
Cyclohexane	110-82-7	84.16	ND	0.50		ND	1.7	
2,2,4-Trimethylpentane(Isooctane)	540-84-1	114.2	ND	0.50		ND	2.3	
Carbon tetrachloride	56-23-5	153.8	ND	0.50		ND	3.1	
n-Heptane	142-82-5	100.2	ND	0.50		ND	2.0	
1,2-Dichloroethane	107-06-2	98.96	ND	0.50		ND	2.0	
Benzene	71-43-2	78.11	ND	0.50		ND	1.6	
Trichloroethene	79-01-6	131.4	ND	0.50		ND	2.7	
1,2-Dichloropropane	78-87-5	113.0	ND	0.50		ND	2.3	
Methyl Methacrylate	80-62-6	100.12	ND	0.50		ND	2.0	
Bromodichloromethane	75-27-4	163.8	ND	0.50		ND	3.3	
1,4-Dioxane	123-91-1	88.12	ND	0.50		ND	1.8	
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.50		ND	2.0	

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EMSL Sample #: **491800401-1**
Customer ID: **SREC85**
Customer PO: **18013**

Attn: **Alex Green**
S&R Environmental Consulting, Inc.
5801 Logan Street, #200
Denver, CO 80216

Phone: **303-297-1645**
Fax: **303-297-1646**
Date Collected: **4/30/2018**
Date Received: **5/1/2018**

Project: **EPA/Boots**

Sample ID: **4-CL-TO15**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	05/01/2018	TP	K15645.D	E0392	307.5 cc	1

Target Compound Results Summary

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3	Comments
cis-1,3-Dichloropropene	10061-01-5	111.0	ND	0.50		ND	2.3	
Toluene	108-88-3	92.14	**1.3**	0.50		**4.8**	1.9	
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.50		ND	2.3	
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.50		ND	2.7	
2-Hexanone(MBK)	591-78-6	100.1	ND	0.50		ND	2.0	
Tetrachloroethene	127-18-4	165.8	ND	0.50		ND	3.4	
Dibromochloromethane	124-48-1	208.3	ND	0.50		ND	4.3	
1,2-Dibromoethane	106-93-4	187.8	ND	0.50		ND	3.8	
Chlorobenzene	108-90-7	112.6	ND	0.50		ND	2.3	
Ethylbenzene	100-41-4	106.2	ND	0.50		ND	2.2	
Xylene (p,m)	1330-20-7	106.2	ND	1.0		ND	4.3	
Xylene (Ortho)	95-47-6	106.2	ND	0.50		ND	2.2	
Styrene	100-42-5	104.1	ND	0.50		ND	2.1	
Isopropylbenzene (cumene)	98-82-8	120.19	ND	0.50		ND	2.5	
Bromoform	75-25-2	252.8	ND	0.50		ND	5.2	
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.50		ND	3.4	
4-Ethyltoluene	622-96-8	120.2	ND	0.50		ND	2.5	
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.50		ND	2.5	
2-Chlorotoluene	95-49-8	126.6	ND	0.50		ND	2.6	
1,2,4-Trimethylbenzene	95-63-6	120.2	ND	0.50		ND	2.5	
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.50		ND	3.0	
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.50		ND	3.0	
Benzyl chloride	100-44-7	126.0	ND	0.50		ND	2.6	
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.50		ND	3.0	
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.50		ND	3.7	
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.50		ND	5.3	
Naphthalene	91-20-3	128.17	ND	0.50		ND	2.6	
Total Target Compound Concentrations:			**84**	**ppbv**		**170**	**ug/m3**	

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	9.9	10	99%

Qualifier Definitions

ND = Non Detect

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

Method Reference

USEPA: Compendium Method TO-15, "Determination of Volatile Organic Compounds (VOCs) in Air..." Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS), January 1999, (EPA/625/R-96/010b).

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http://www.EMSL.com to15lab@EMSL.com

EMSL Order #: **491800401**
EMSL Sample #: **491800401-1**
Customer ID: **SREC85**
Customer PO: **18013**

Attn: **Alex Green**
S&R Environmental Consulting, Inc.
5801 Logan Street, #200
Denver, CO 80216

Phone: **303-297-1645**
Fax: **303-297-1646**
Date Collected: **4/30/2018**
Date Received: **5/1/2018**

Project: **EPA/Boots**
Sample ID: **4-CL-TO15**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	05/01/2018	TP	K15645.D	E0392	307.5 cc	1

Tentatively Identified Compound Results Summary

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time	Comments
Propane	000074-98-6	44	**3.1**	JN	**5.5**	5.52	
Butane, 2-methyl-	000078-78-4	72	**2.3**	JN	**6.9**	8.08	
Pentane	000109-66-0	72	**2.0**	JN	**5.8**	9.01	
		Total TIC Concentrations:	**7.4**	**ppbv**	**18**	**ug/m3**	

Qualifier Definitions

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

B = Compound also found in method blank.

J= Estimated value based on a 1:1 response to internal standard.

N= Presumptive evidence of compound based on library match.

Method Reference

USEPA: Compendium Method TO-15, "Determination of Volatile Organic Compounds (VOCs) in Air..." Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS), January 1999, (EPA/625/R-96/010b).

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EMSL Order #:	491800401
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Customer ID:	SREC85
Customer PO:	18013

Attn: **Alex Green**
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5801 Logan Street, #200
Denver, CO 80216

Phone: 303-297-1645
Fax: 303-297-1646
Date Collected: 4/30/2018
Date Received: 5/1/2018

Project: EPA/Boots

Sample ID: 4-CL-TO15

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	05/01/2018	TP	K15645.D	E0392	307.5 cc	1

Total Volatile Organic Compounds (TVOC) Summary

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3	Comments
n-Butane	106-97-8	58.12	3.8	0.50		9.1	1.2	
Ethanol	64-17-5	46.07	40	0.50		75	0.94	
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	2.3	0.50		5.6	1.2	
Acetone	67-64-1	58.08	6.2	0.50		15	1.2	
Acetonitrile	75-05-8	41.00	27	0.50		45	0.84	
n-Hexane	110-54-3	86.17	0.80	0.50		2.8	1.8	
2-Butanone(MEK)	78-93-3	72.10	0.54	0.50		1.6	1.5	
Ethyl acetate	141-78-6	88.10	2.2	0.50		8.1	1.8	
Toluene	108-88-3	92.14	1.3	0.50		4.8	1.9	
		Total Target Compound Concentrations:	84	ppbv		170	ug/m3	

Qualifier Definitions

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv		Q	Result ug/m3	Retention Time	Comments
Propane	000074-98-6	44	3.1		JN	5.5	5.52	
Butane, 2-methyl-	000078-78-4	72	2.3		JN	6.9	8.08	
Pentane	000109-66-0	72	2.0		JN	5.8	9.01	
		Total TIC Concentrations:	7.4	ppbv		18	ug/m3	

Qualifier Definitions

(1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.

B = Compound also found in method blank.

J= Estimated value based on a 1:1 response to internal standard.

N= Presumptive evidence of compound based on library match.

Total Volatile Organic Compounds (TVOCs):	91	ppbv	190	ug/m3

49180040 1

TO-15 Sample Information

Please fill out this worksheet in addition to the Chain of Custody form. This information helps us to best analyze your samples, achieve requested TAT, and provide you with helpful interpretation information.

Company: S&R ENVIRONMENTAL CONSULTING

Contact Person:

Name: ALEX GREEN

E-mail: ALEX@SRENVIRONMENTALCONSULTING.COM

Additional E-mails:

Telephone #: 303-297-3965

Library Search requested: [X] YES [ ] NO

A library search (*aka Tentatively Identified Compounds*) will identify up to 20 of the largest, non-target peaks that are not part of the standard TO-15 list of 74 compounds. If you are performing an Indoor Air Quality or odor investigation, the library search is recommended to provide you with all available information for your sample.

Sample Type:

[X] Indoor Air Quality (Home/Office)
[ ] IAQ (Industrial)
[ ] Other:
[ ] Soil Gas/Sub Slab

Sample Description:_____

PLEASE NOTE: The result forms we provide will not indicate whether your results have exceeded any Exposure Limit criteria established by any regulatory agency. If you would like that information, please check off below which regulatory comparison forms you would like to receive.

[ ] OSHA PELs/NIOSH RELs *combined form*
[ ] EPA RSLs - *11/2017* Residential Industrial
[ ] NJ DEP *1/2018* - Circle one: VI-Indoor AQ VI-Soil Gas
[ ] NC DENR *4/2014* -Circle one: Residential Non-residential
[ ] PA DEP - *11/2016* Indoor Air
[ ] PA DEP- 11/2016: Sub Slab Soil Gas OR Near Source Soil Gas
[ ] CA HHSL *11/2004* -Circle one: Indoor Air Soil Gas
[ ] Potential Sources of Compounds found in your IAQ sample
[X] TVOC (Library Search Required for this format)
[ ] Ohio *4/2013* -Circle one: Residential Commercial
[ ] Indiana Dept Env Mgmt Screeening Levels *3/2016*
[ ] Vermont DEP IROCP *4/2012* (soil gas only)
[ ] California OEHHA *2/2012*
[ ] Other; these are the compounds I want reported:

RECEIVED EMSL CINNAMINSON, N.J. 2018 MAY -1 AM 10:32

Please note: There is an additional charge for any of the tests below. **USEPA TO-3 AND ASTM 5504 analyses can be performed from your canister at the Cinnaminson NJ Laboratory.**

US EPA TO-3 via GC/FID **(choose one below):**

[ ] C_1-C_6 hydrocarbons
[ ] Methane only

ASTM-D5504 *via GC/SCD* **(choose one below):**

[ ] Sulfur Scan (H_2S, COS, MeSH, EtSH, DMS)
[ ] H_2S only

Note** : **Hold time for sulfur gases is 1 day from collection. Please schedule your sample collection so samples are received in the lab prior to noon on Friday. Analysis performed out of hold time will have a notation in the report.

We can provide the following CMS tests from your canisters at the **Cinnaminson and Huntington Beach** laboratories. Please note these tests are to be used for IAQ/Screening purposes ONLY. EMSL recommends alternate field sampling techniques for these parameters (with the exception of water vapor); please contact your sales rep for the proper media. Please note: There is an additional charge for any of the tests below.

Draeger CMS Analyzer:
[X] CO [X] CO_2 [ ] NH_3 [ ] O2 [ ] Water Vapor

Sample Retention Policy: All canisters are guaranteed to be retained for one day after results are reported. Please review your results promptly to ensure your project scope is fully addressed. Cans may be retained for a longer period of time, but arrangements to hold your cans must be made through your customer account representative quickly. Thank you.

USEPA TO-15
External Chain of Custody/ Field Test Data Sheet

EMSL ANALYTICAL, INC.
LABORATORY · PRODUCTS · TRAINING

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
Ph. (800) 220-3675
Fax (856) 786-0327

EMSL Order Number (Lab Use Only): 491800401

Report To Contact Name:	Bill To Company:	Sampled By (Sign):
Company Name: SOR ENVIRONMENTAL	Attention To: SAME	Sampled By (Name): TOM Ziegler
Address 1: 5801 LOGAN ST #200	Address 1:	Total # of Samples: 1
Address 2: DENVER CO 80216	Address 2:	Date Shipped: 4/29/18
Phone No.: 303-297-3903 Fax:	Phone No.: Fax:	Sample Collection Zip Code: 80202
Email Results To: ALEX@SORENVIRONMENTALCONSULTING.COM	Project Name: EPA / BOOTS	Purchase Order: 018013

Turnaround Time (In Business Days): ☐ 10 Day Standard ☐ 5 Day ☐ 4 Day ☐ 3 Day ☒ 2 Day ☐ 1 Day ☐ Other

Reporting Format: ☒ Results Only (Standard Lab Report) ☐ Full Deliverables (Surcharge may apply) ☐ Other

EMSL Sample Identifier	Client Field Sample Identification	Field Use - All Information Required! Sampling Start Information Barometric Pres. ("Hg): Start Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp. (F)	Sampling Stop Information Barometric Pres. ("Hg): Stop Date	Time (24 hr clock)	Canister Pressure ("Hg)	Interior Temp. (F)	Lab Use Only Canister Information: Canister ID	Size (L)	Can Cert Batch ID	Outgoing Pressure ("Hg)	Incoming Pressure ("Hg)	Flow Contoller: Reg. ID	Cal Flow (ml/min)	Analysis: USEPA TO-15	NJDEP LLTO-15	LIBRARY SEARCH	Other (Specify)	Matrix: Indoor/ Ambient Air	Soil Gas	Landfill/ Vent
	4-CL-TO15	4/30	9:30	25	72	4/30	15:30	1	72°	E0392	6	C3580	-29.4	-6.0	8041	21.2	X		X		X		

Comments:

Lab Canister Certification
Analyst Signature (TO-15):

Relinquished by:	Date/ Time	Received by:	Date/ Time	Seal #/Intact	Reason for Exchange (circle appropriate)
Carlos Peters	4/25/18 1555	[illegible]	4/26/18	508	Shipping Courier Receiving Sampling Other:
[illegible]	4/29/18	Bob H	5/1/18 930	509 (Y)	Shipping Courier Receiving Sampling Other:
Bob 5/1/18	1035	[illegible]	5/1/18 1139		Shipping Courier Receiving Sampling Other:
					Shipping Courier Receiving Sampling Other:
					Shipping Courier Receiving Sampling Other:

RECEIVED 2018 MAY -1 AM 10:32 CINNAMINSON, N.J. EMSL

EMSL Analytical, Inc. 200 Route 130 North, Cinnaminson, NJ 08077

Order ID: 281801958

Attn:	Alex Green S&R Environmental Consulting, Inc 5801 Logan Street, #200 Denver, CO 80216	Customer ID: Customer PO: Date Received:	SREC85 018013 05/01/2018
Project: Report Date:	**EPA – Floor 4, Clearance** 05/03/2018	EMSL Project ID: Date Analyzed:	 05/01/2018

Test Report – 4-Phenylcyclohexene Analysis by GC/FID via Modified OSHA CSI Method

Sample ID	Identification	Sample Volume (L)	Sample Weight (µg)	Sample Conc. (µg/m^3)	Reporting Limit (µg/m^3)
281801958-0001	4-CL-4PCH	24	<0.030	<1.3	<1.3
Desorption Blank	-	0	<0.030	ND	NA

Notes:
1. Samples were received in acceptable condition unless otherwise noted.
2. These results relate only to the samples tested.
3. Sample results are not blank corrected unless otherwise noted.
4. Discernable field blank(s) submitted with samples if reported above.

TC/VK/VMD
Analyst

Scott VanEtten, CIH- Lab Manager
Or other approved signatory

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only): 281801958

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

Report To Contact Name: Alex Green		Bill To Company: SAME	Client ID #:
Company Name: S&R Environmental Consulting		Attention To:	
Street: 5801 Logan St. #200		Street:	
City: Denver	State/Province: CO	City:	State/Province: Zip/Postal Code:
Phone: 303-548-1175 Fax:		Phone:	Fax:
Project Name: EPA - Floor 4 - Clearance		Email Results To: alex@sienvironmental consulting.com	U.S. State where Samples Collected: CO
# Samples in Shipment: 3	Date of Shipment: 4/29/18	Purchase Order: 018013	Sampled By (Signature):

Turnaround Time (TAT) – Please Check: If No Selection Made, Standard 2 Week TAT Will Apply

☐ 2 Week ☐ 1 Week ☐ 4 Day ☐ 3 Day ☒ 2 Day ☐ 1 Day ☐ Other (Call Lab)

Media Type: Various
Manufacturer/Part #: Lot #:

Client Sample ID	Location/Description	Analyte / Method	Media	Flow (lpm)	Sample Time On	Sample Time Off	Volume / Area	Sample Type	Sample Date	Comments
4-CL-PM10	4th Floor	EPA IP-10A	37 mm filter				2.472 L	☒ Area ☐ Personal	4/29/18	
4-CL-4PCH	↓	OSHA-CS1	Sorbent tube				24 L	☒ Area ☐ Personal	↓	
4-CL-FORM	↓	NIOSH 2016	"				2.4 L	☒ Area ☐ Personal	↓	
								☐ Area ☐ Personal		
								☐ Area ☐ Personal		
								☐ Area ☐ Personal		
								☐ Area ☐ Personal		
								☐ Area ☐ Personal		

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
	4/29/18	JP	5/1/18 9:30a

Comments: *split*

Page 1 of 1 pages

OrderID: 281801958

EMSL Analytical - Industrial Hygiene
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 /
http://www.EMSL.com IndustrialHygienelab@emsl.com

EMSL Order:	281801953
CustomerID:	SREC85
CustomerPO:	018013
ProjectID:	

Attn: **Alex Green**
S&R Environmental Consulting, Inc.
5801 Logan Street, #200
Denver, CO 80216

Phone:	(303) 297-1645
Fax:	(303) 297-1646
Received:	05/01/18 10:40 AM
Analysis Date:	5/3/2018
Collected:	4/29/2018

Project: **EPA - Floor 4 - Clearance**

Test Report: PM10 Analysis of Particulate Matter Performed by EPA Reference Method 40 CFR, Chapter I, Part 50, App. J

Sample	*Location*	*Volume (L)*	*Initial Weight (mg)*	*Final Weight (mg)*	*Sample Weight (mg)*	*Concentration (µg/m³)*	*Reporting Limit (µg/m³)*	*Notes*
4-CL-PM10	4th Floor	2472	55.105	55.618	0.51	210	0.81	
281801953-0001								

Notes: Discernable field blank not submitted with samples.
Results are not field blank corrected.

Analyst(s)

Vincent Kurp (1)

Scott Van Etten, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m3, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical - Industrial Hygiene Cinnaminson, NJ

Initial report from 05/03/2018 10:40:29

THIS IS THE LAST PAGE OF THE REPORT.

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only): -281801953

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

OrderID: 281801953

Report To Contact Name: Alex Green			Bill To Company: SAME		Client ID #:
Company Name: S&R Environmental Consulting			Attention To:		
Street: 5801 Logan St. #200			Street:		
City: Denver	State/Province: CO	Zip/Postal Code: 80216	City:	State/Province:	Zip/Postal Code:
Phone: 303-548-1175 Fax:			Phone:	Fax:	
Project Name: EPA - Floor 4 - Clearance			Email Results To: alex@sienvironmental consulting.com		U.S. State where Samples Collected: CO
# Samples in Shipment: 3	Date of Shipment: 4/29/18		Purchase Order: 018013	Sampled By (Signature):	

Turnaround Time (TAT) – Please Check: If No Selection Made, Standard 2 Week TAT Will Apply

☐ 2 Week ☐ 1 Week ☐ 4 Day ☐ 3 Day ☒ 2 Day ☐ 1 Day ☐ Other (Call Lab)

Media Type: Various

Manufacturer/Part #: Lot #:

Client Sample ID	Location/Description	Analyte / Method	Media	Flow (lpm)	Sample Time On	Sample Time Off	Volume / Area	Sample Type	Sample Date	Comments
4-CL-PM10	4th Floor	EPA IP-10A	37 mm filter				2472 L	☒ Area ☐ Personal	4/29/18	
4-CL-4PCH	↓	OSHA-CS1	Sorbent tube				24 L	☒ Area ☐ Personal	↓	
4-CL-FORM	↓	NIOSH 2016	"				24 L	☒ Area ☐ Personal	↓	
								☐ Area ☐ Personal		
								☐ Area ☐ Personal		
								☐ Area ☐ Personal		
								☐ Area ☐ Personal		
								☐ Area ☐ Personal		

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
	4/29/18	Bob N 1040	5/1/18

Comments: *split*

RECEIVED EMSL CINNAMINSON, N.J. 2018 MAY -1 A 10:40

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 /
http://www.EMSL.com / IndustrialHygienelab@emsl.com

EMSL Order ID:	281801956
Customer ID:	SREC85
Customer PO:	018013
Project ID:	

Attn: Alex Green
S&R Environmental Consulting, Inc.
5801 Logan Street, #200
Denver, CO 80216

Phone:	(303) 297-1645
Fax:	(303) 297-1646
Collected:	
Received:	5/01/2018
Analyzed:	5/01/2018

Proj: EPA - Floor 4, Clearance

Test Report:Formaldehyde Analysis by HPLC of Solid Sorbent Tubes via NIOSH 2016, Issue 2, 3/15/03 modified

Sample ID	Identification	Volume	Sample Weight	Sample Concentration		Reporting Limit
4-CL-FORM 281801956-0001	Floor 4 Clearance	24 L	0.051 µg	0.0021 mg/m³	0.0017 ppm	0.0021 mg/m³
Media Blank		N/A	<0.050 µg	<0.050 µg	N/A	N/A

N/A = Not Applicable

Analyst(s)
Thomas Cancglin

Scott Van Etten, CIH, Laboratory Manager

Any questions please contact Scott VanEtten.

Initial report from: 05/03/2018 15:36:01

1. Samples were received in acceptable condition unless otherwise noted.
2. These results relate only to the samples tested.
3. Sample results are blank corrected. Reporting Limits for samples without volumes, such as Field Blanks, are 0.050 ug.
4. A discernable Field Blank was submitted if listed above as a discrete sample.

Samples analyzed by EMSL Analytical - Industrial Hygiene Cinnaminson, NJ AIHA-LAP, LLC--IHLAP Accred. Lab 100194

Industrial Hygiene Chain of Custody

EMSL Order Number (Lab Use Only): 281801956

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 858-3502

OrderID: 281801956

Report To Contact Name: Alex Green	Bill To Company: SAME	Client ID #:
Company Name: S&R Environmental Consulting	Attention To:	
Street: 5801 Logan St. #200	Street:	
City: Denver State/Province: CO Zip/Postal Code: 80216	City: State/Province: Zip/Postal Code:	
Phone: 303-548-1175 Fax:	Phone: Fax:	
Project Name: EPA - Floor 4 - Clearance	Email Results To: alex@sienvironmental consulting.com	U.S. State where Samples Collected: CO
# Samples in Shipment: 3 Date of Shipment: 4/29/18	Purchase Order: 018013 Sampled By (Signature):	

Turnaround Time (TAT) – Please Check: If No Selection Made, Standard 2 Week TAT Will Apply

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Manufacturer/Part #: Lot #:

Client Sample ID	Location/Description	Analyte / Method	Media	Flow (lpm)	Sample Time On	Sample Time Off	Volume / Area	Sample Type	Sample Date	Comments
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4-CL-4PCH	↓	OSHA-CS1	Sorbent tube				24 L	☒ Area ☐ Personal	↓	
4-CL-FORM	↓	NIOSH 2016	"				24 L	☒ Area ☐ Personal	↓	
								☐ Area ☐ Personal		
								☐ Area ☐ Personal		
								☐ Area ☐ Personal		
								☐ Area ☐ Personal		
								☐ Area ☐ Personal		

Note: Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

Released By	Date	Received By	Date
	4/29/18	JP.	5/1/18 9:30a

Comments: *split*