Ångstrom Analytical, Inc.

5001 Cedar Lake Road S.
St. Louis Park, MN 55416
Office: (952) 252-0405
Fax: (952) 252-0407

Minnesota State Capitol Building

Additional Indoor Air Quality Testing (VOC) Phase 2

St. Paul, MN.

Contract # 59638. RECS # 02CB0015

2/26/15

Report Prepared For:

State of Minnesota
Department of Administration
C/O Steve Terman - CPMI
Real Estate & Construction Services
309 Administration Building
50 Sherburne Avenue
St. Paul, MN 55155

Presented By:

Ångstrom Analytical

Angstrom Analytical, Inc.

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St. Louis Park, MN 55416
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State of MN, Dept. of Admin, RECS
C/O Mr. Steve Terman, CPMI
3265 Northwood Circle, Suite 170
Eagan, MN 55121

February 26th, 2015

Re:- Additional Indoor Air Quality Testing – Phase 2
Minnesota State Capitol Building

Dear Steve:

OBJECTIVE

The Department of Administration, Real Estate and Construction Services retained Angstrom Analytical, Inc. to conduct indoor air sampling and subsequent analysis, within the Minnesota State Capitol. Specifically Angstrom Analytical, Inc., in this phase tested for:

- Volatile Organic Compounds via USEPA TO-15 using gas chromatography and mass spectroscopy.

The above contaminants could reasonably be expected to be produced as a result of the ongoing hazardous material abatement, demolition and construction related activities.

On January 21st, 2015, testing was performed in the following 2 locations:

In the South West Corridor of the Second Floor and on the stairs leading from the Rathskeller to the Ground Floor for Volatile Organic Compounds. For precise sampling locations, please refer to the floor plans referenced in Appendix 1.

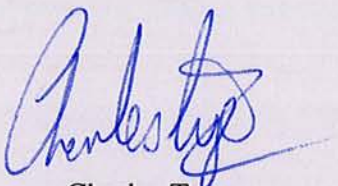
RESULTS

All of the VOC air samples collected throughout the Capitol Building during Phase 2 are below current OSHA and / or MN Dept. of Health PELs or Threshold Limit Values.

Volatile Organic Compound Scan: Of the 74 VOCs scanned, no value was in excess of background levels. Reference Appendix 2.

It is our intent to repeat these tests on a two to four week schedule in order to monitor the contaminants for fluctuation. If you have any questions, please do not hesitate to call.

Sincerely,

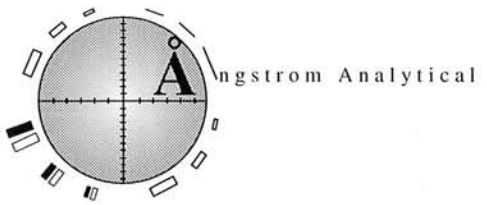


Charles Tye
Angstrom Analytical, Inc.

CT/file.

Appendix 1

Sampling Locations / Floor Plans

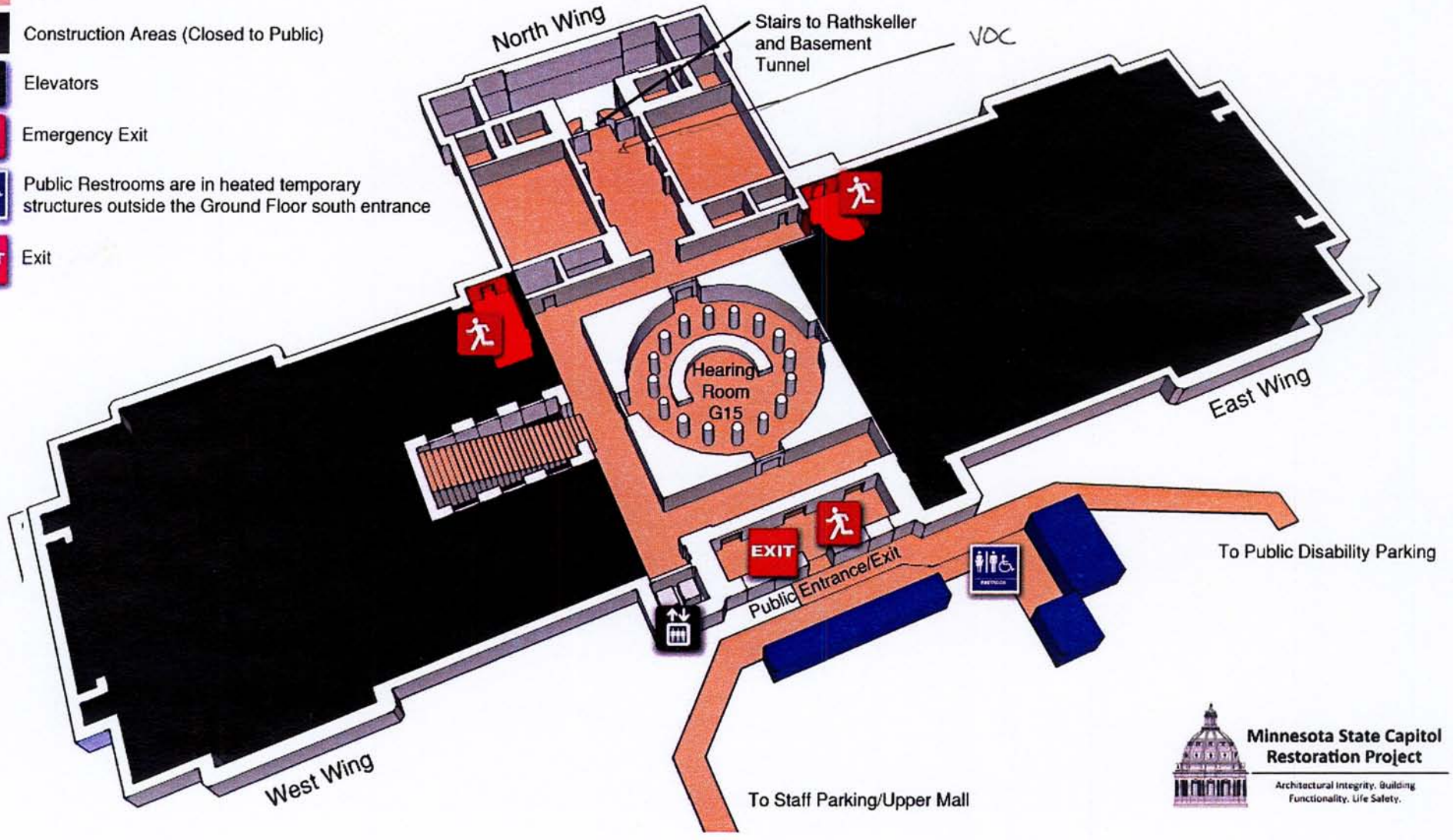


Ground Floor

Minnesota State Capitol Restoration Project
Public Access Map

Legend

- Open To Public
- Construction Areas (Closed to Public)
- Elevators
- Emergency Exit
- Public Restrooms are in heated temporary structures outside the Ground Floor south entrance
- EXIT Exit



Minnesota State Capitol Restoration Project

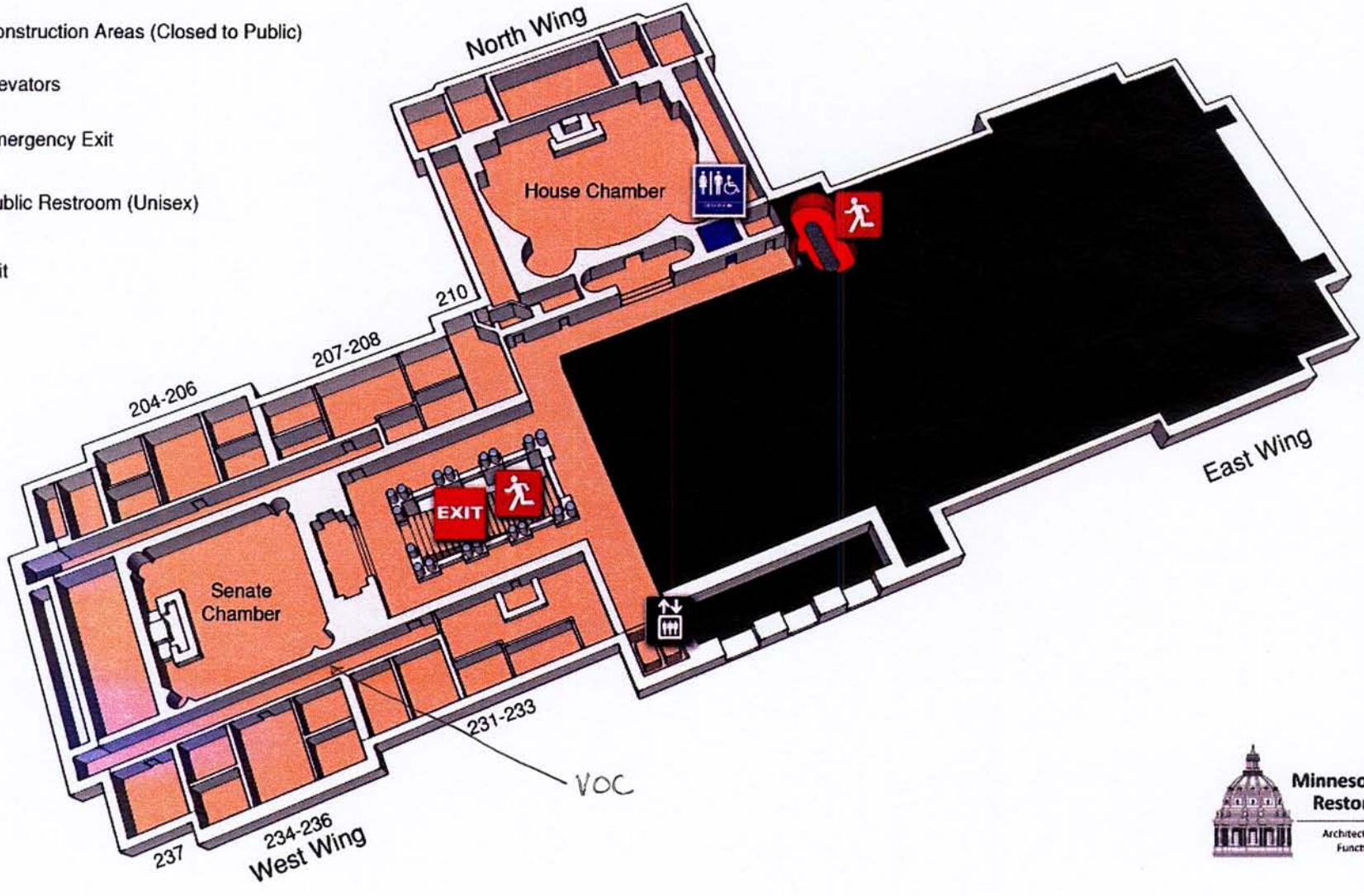
Architectural Integrity. Building Functionality. Life Safety.

Second Floor

Minnesota State Capitol Restoration Project
Public Access Map

Legend

- Open To Public
- Construction Areas (Closed to Public)
- Elevators
- Emergency Exit
- Public Restroom (Unisex)
- EXIT Exit

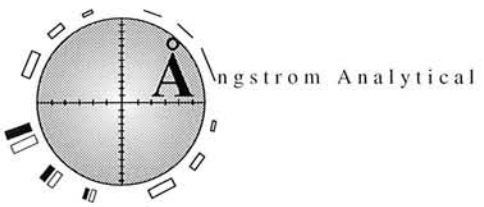


Minnesota State Capitol Restoration Project

Architectural Integrity. Building Functionality. Life Safety.

Appendix 2

Volatile Organic Compound Scan (GC/MS via USEPA TO-15) Results



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

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

EMSL ANALYTICAL, INC. LABORATORY • PRODUCTS • TRAINING

EMSL Order Number (Lab Use Only): 041500238

Report To Contact Name: Kevin Hagen	Bill To Company: SAME	Sampled By (Sign):
Company Name: Angstrom Analytical INC.	Attention To:	Sampled By (Name): Kevin Hagen
Address 1: 5001 Cedar Lake Rd South.	Address 1:	Total # of Samples: 2
Address 2: St. Louis Park MN 55416	Address 2:	Date Shipped:
Phone No.: Fax:	Phone No.: Fax:	Sample Collection Zip Code: 55101
Email Results To: Kevin@angstromanalytical.com	Project Name: Capitol Bldg. Phase II	Purchase Order:

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

Field Use - All Information Required! — **Lab Use Only**

EMSL Sample Identifier	Client Field Sample Identification	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)	Canister Information: Canister ID	Size (L)	Can Cert Batch ID	Outgoing Pressure ("Hg)	Incoming Pressure ("Hg)	Flow Contoller: Reg. ID	Cal Flow (ml/min)
										E0267	6	C3015	-29.8		3729	10.7
										0420					3737	11.0
	2nd FL S.W.	1/21/15	0607	30.0	71°	1/21/15	1507	0.0	74°	0533				-2.2	3530	10.3
	Ground FL.	1/21/15	0603	27.0	73°	1/21/15	1503	0.0	74°	0630				-2.6	3516	10.4

Analysis: USEPA TO-15	NJDEP LLTO-15	LIBRARY SEARCH	Other (Specify)	Matrix: Indoor/ Ambient Air	Soil Gas	Landfill/ Vent
			2015 JAN 26 A 10:10 CINNAMINSON, N.J.	✓		
✓				✓		
✓				✓		

Comments:

Lab Canister Certification
Analyst Signature (TO-15):

Relinquished by:	Date/ Time	Received by:	Date/ Time	Affixed Seal #	Reason for Exchange (circle appropriate)
	12/22/14 1505				Shipping Courier Receiving Sampling Other:
			12/24/14 11:40Am.		Shipping Courier Receiving Sampling Other:
			1/21/15 6:00pm		Shipping Courier Receiving Sampling Other:
	1/22/15	AK Ex	1/26/15 0900		Shipping Courier Receiving Sampling Other:
AK	1/26/15		1/28/15 1255		Shipping Courier Receiving Sampling Other: AW

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 #: **491500081**
Customer ID: **ANGS50**
Customer PO: **Not Available**

Attn: **Kevin Hagen**
Angstrom Analytical, Inc.
5001 Cedar Lake Road
St Louis Park, MN 55416

Phone: **952-252-0405**
Fax: **952-252-0407**

Project: **Capitol Building Phase II**

Date Collected: **01/21/2015**
Date Received: **01/26/2015**

Laboratory Report- Sample Summary

EMSL Sample ID.	Client Sample ID.	Start Sampling Date	Start Sampling Time
491500081-0001	2nd Fl. S.W.	1/21/2015	6:07 AM
491500081-0002	Ground FL	1/21/2015	6:03 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
02/09/2015	R0	Initial Report

Marjorie Howley

Marjorie Howley, Laboratory Manager
or other approved signatory

Test results meet all NELAP requirements unless otherwise specified.

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EMSL Order #: **491500081**
EMSL Sample #: **491500081-1**
Customer ID: **ANGS50**
Customer PO: **Not Available**

Attn: **Kevin Hagen**
Angstrom Analytical, Inc.
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St Louis Park, MN 55416

Phone: **952-252-0405**
Fax: **952-252-0407**
Date Collected: **01/21/2015**
Date Received: **01/26/2015**

Project: **Capitol Building Phase II**

Sample ID: **2nd Fl. S.W.**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	02/08/2015	MTH	M8114.D	E0533	250 cc	1
Dilution1	02/09/2015	MTH	M8128.D	E0533	25 cc	10

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	0.64	0.50		1.3	1.0	
n-Butane	106-97-8	58.12	1.8	0.50		4.3	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	150	5.0	D	290	9.4	*Reported Dilution #1*
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	4.8	0.50		12	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	47	5.0	D	110	12	*Reported Dilution #1*
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0	
Acetonitrile	75-05-8	41.00	ND	0.50		ND	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	0.91	0.50		3.2	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	ND	0.50		ND	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	18	0.50		52	1.5	
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0	
Ethyl acetate	141-78-6	88.10	ND	0.50		ND	1.8	
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4	
Tetrahydrofuran	109-99-9	72.11	37	5.0	D	110	15	*Reported Dilution #1*
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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http://www.EMSL.com to15lab@EMSL.com

EMSL Order #: **491500081**
EMSL Sample #: **491500081-1**
Customer ID: **ANGS50**
Customer PO: **Not Available**

Attn: **Kevin Hagen**
Angstrom Analytical, Inc.
5001 Cedar Lake Road
St Louis Park, MN 55416

Phone: **952-252-0405**
Fax: **952-252-0407**
Date Collected: **01/21/2015**
Date Received: **01/26/2015**

Project: **Capitol Building Phase II**

Sample ID: **2nd Fl. S.W.**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	02/08/2015	MTH	M8114.D	E0533	250 cc	1
Dilution1	02/09/2015	MTH	M8128.D	E0533	25 cc	10

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	2.9	0.50		11	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:			260	ppbv		590	ug/m3	

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	9.8	10	98%

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).

NJDEP Certification #: 03036

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

EMSL Order #: **491500081**
EMSL Sample #: **491500081-2**
Customer ID: **ANGS50**
Customer PO: **Not Available**

Attn: **Kevin Hagen**
Angstrom Analytical, Inc.
5001 Cedar Lake Road
St Louis Park, MN 55416

Phone: **952-252-0405**
Fax: **952-252-0407**
Date Collected: **01/21/2015**
Date Received: **01/26/2015**

Project: **Capitol Building Phase II**

Sample ID: **Ground FL**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	02/08/2015	MTH	M8115.D	E0630	250 cc	1
Dilution1	02/09/2015	MTH	M8129.D	E0630	25 cc	10

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	0.64	0.50		1.3	1.0	
n-Butane	106-97-8	58.12	21	0.50		50	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	60	5.0	D	110	9.4	*Reported Dilution #1*
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	5.2	0.50		13	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	91	5.0	D	220	12	*Reported Dilution #1*
1,1-Dichloroethene	75-35-4	96.94	ND	0.50		ND	2.0	
Acetonitrile	75-05-8	41.00	ND	0.50		ND	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	0.88	0.50		3.1	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	ND	0.50		ND	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	32	0.50		94	1.5	
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.50		ND	2.0	
Ethyl acetate	141-78-6	88.10	ND	0.50		ND	1.8	
Chloroform	67-66-3	119.4	ND	0.50		ND	2.4	
Tetrahydrofuran	109-99-9	72.11	67	5.0	D	200	15	*Reported Dilution #1*
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.50		ND	2.7	
Cyclohexane	110-82-7	84.16	1.0	0.50		3.5	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	1.9	0.50		7.8	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 Order #:	491500081
EMSL Sample #:	491500081-2
Customer ID:	ANGS50
Customer PO:	Not Available

Attn:	Kevin Hagen Angstrom Analytical, Inc. 5001 Cedar Lake Road St Louis Park, MN 55416	Phone: Fax: Date Collected: Date Received:	952-252-0405 952-252-0407 01/21/2015 01/26/2015
Project:	Capitol Building Phase II	Sample ID:	Ground FL

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	02/08/2015	MTH	M8115.D	E0630	250 cc	1
Dilution1	02/09/2015	MTH	M8129.D	E0630	25 cc	10

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	34	5.0	D	130	19	*Reported Dilution #1*
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:			310	ppbv		830	ug/m3	

Surrogate	Result	Spike	Recovery
4-Bromofluorobenzene	9.8	10	98%

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).

NJDEP Certification #: 03036

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 #: **491500081**
EMSL Sample #: **491500081-2**
Customer ID: **ANGS50**
Customer PO: **Not Available**

Attn: **Kevin Hagen**
Angstrom Analytical, Inc.
5001 Cedar Lake Road
St Louis Park, MN 55416

Phone: **952-252-0405**
Fax: **952-252-0407**
Date Collected: **01/21/2015**
Date Received: **01/26/2015**

Project: **Capitol Building Phase II**

Sample ID: **Ground FL**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	02/08/2015	MTH	M8115.D	E0630	250 cc	1
Dilution1	02/09/2015	MTH	M8129.D	E0630	25 cc	10

Possible Background Sources of Contaminants

Target Compounds	CAS#	Result ppbv	Q	Result ug/m3	Use and Possible Sources
Chloromethane	74-87-3	0.64		1.3	Most (99%) of the chloromethane in the environment comes from natural sources. Because chloromethane is made in the oceans by natural processes, it is present in air all over the world. In most areas, the outside air contains less than 1 part of chloromethane in a billion parts of air (ppb). In cities, human activities, mostly combustion and manufacturing, add to the chloromethane in the air, resulting in somewhat higher levels, up to 1 ppb. Cigarette smoke, polystyrene insulation, and aerosol propellants; home burning of wood, coal, or certain plastics; and chlorinated swimming pools.[4]
n-Butane	106-97-8	21		50	Aerosol spray products for some paints, cosmetics, automotive products, leather treatments, pesticides.[2]
Ethanol	64-17-5	60	D	110	Hand sanitizers, disinfecting wipes. Personal care products: nail polish, nail polish remover, colognes, perfumes, rubbing alcohol, hair spray.[2]
Isopropyl alcohol(2-Propanol)	67-63-0	5.2		13	Eye Glass Cleaners. Disinfecting wipes. Personal care products: nail polish, nail polish remover, colognes, perfumes, rubbing alcohol, hair spray.[2]
Acetone	67-64-1	91	D	220	Rubber cement, cleaning fluids, scented candles and nail polish remover.[1]
Methylene chloride	75-09-2	0.88		3.1	Methylene chloride is used as an industrial solvent and as a paint stripper. It may also be found in some aerosol and pesticide products and is used in the manufacture of photographic film.[4] Hairspray, paint stripper, rug cleaners,
2-Butanone(MEK)	78-93-3	32		94	2-Butanone is produced in large quantities. Nearly half of its use is in paints and other coatings because it will quickly evaporate into the air and it dissolves many substances.[4] Can occur from automobile exhaust, printing inks, fragrance/flavoring agent in candy and perfume, paint, glue, cleaning agents and cigarette smoke.[1]
Tetrahydrofuran	109-99-9	67	D	200	PVC cement and primer, various adhesives, contact cement, model cement.[2]
Cyclohexane	110-82-7	1.0		3.5	Cyclohexane can be added to lacquers and resins, paint and varnish removers, and fungicides. It is also used as a fuel for camp stoves. Exposure can also occur when people use products that contain cyclohexane or when they smoke cigarettes.[4]
n-Heptane	142-82-5	1.9		7.8	It is used as an industrial solvent and in gasoline and petroleum products refining processes.Also may be in nail polishes and wood office furniture.[1]
Toluene	108-88-3	34	D	130	Toluene is produced in the process of making gasoline and other fuels from crude oil and making coke from coal. Will occur in gasoline exhaust. Toluene is used in making paints, paint thinners, fingernail polish, lacquers, adhesives, and rubber and in some printing and leather tanning processes.[4]

Qualifier Definitions
ND = Non Detect

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St Louis Park, MN 55416

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Fax: **952-252-0407**
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Project: **Capitol Building Phase II**

Sample ID: **Ground FL**

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Dilution1	02/09/2015	MTH	M8129.D	E0630	25 cc	10

Possible Background Sources of Contaminants

Target Compounds	CAS#	Result ppbv	Q	Result ug/m3	Use and Possible Sources

B = Compound also found in method blank.
E= Estimated concentration exceeding upper calibration range.
D= Result reported from diluted analysis.

Sources References

(1) NJDEP "Common Household Sources of Background Indoor Air Contamination". June 26, 2012
(2) NYSDOH "Volatile Organic Compounds (VOCs) in Commonly Used Products", 2007
(3) EPA, Air & Radiation, TTN Web - Technology Transfer NetworkAir Toxics Web site, various years.
(4) Agency for Toxic Substances and Disease Registry (ATSDR). U.S. Public Health Service, U.S. Department of Health and Human Services, Atlanta, GA. 1998.
(5) OFFICE OF POLLUTION PREVENTION AND TOXICS, U.S. ENVIRONMENTAL PROTECTION AGENCY, August 1994, EPA 749-F-94-012a
(6) U.S. Environmental Protection Agency, Office of Research and Development, Cincinnati, OH. 1985.
(7) World Health Organization,
(8) Product Safety Assessment, Revised: November 19, 2010 The Dow Chemical Company
(9) California Office of Environmental Health Hazard Assessment, PROPOSED ACTION LEVEL FOR 2-CHLOROTOLUENE
(10) Delaware Health and Social Services, Division of Public Health, Revised: 01/2010
(11) USEPA, Envirofacts Master Chemical Integrator (EMCI), Scorecard, 4/10/2009

NJDEP Certification #: 03036

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Initial	02/08/2015	MTH	M8115.D	E0630	250 cc	1
Dilution1	02/09/2015	MTH	M8129.D	E0630	25 cc	10

NIOSH and OSHA Exposure Limit Comparisons

Target Compounds	CAS#	MW	Result ppbv	Q	Result ug/m3	NIOSH REL ug/m3	>	OSHA PEL ug/m3	>
Propylene	115-07-1	42.08	ND		ND	N.E.		N.E.	
Freon 12(Dichlorodifluoromethane)	75-71-8	120.90	ND		ND	4900000		4900000	
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.90	ND		ND	7000000		7000000	
Chloromethane	74-87-3	50.49	0.64		1.3	LFC		210000	
n-Butane	106-97-8	58.12	21		50	1900000		1900000	
Vinyl chloride	75-01-4	62.50	ND		ND	LFC		2600	
1,3-Butadiene	106-99-0	54.09	ND		ND	LFC		2200	
Bromomethane	74-83-9	94.94	ND		ND	LFC		78000	
Chloroethane	75-00-3	64.52	ND		ND	LFC		2600000	
Ethanol	64-17-5	46.07	60	D	110	1900000		1900000	
Bromoethene(Vinyl bromide)	593-60-2	106.90	ND		ND	LFC		N.E.	
Freon 11(Trichlorofluoromethane)	75-69-4	137.40	ND		ND	5600000		5600000	
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	5.2		13	980000		980000	
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.40	ND		ND	7700000		7700000	
Acetone	67-64-1	58.08	91	D	220	590000		2400000	
1,1-Dichloroethene	75-35-4	96.94	ND		ND	790000		790000	
Acetonitrile	75-05-8	41.00	ND		ND	34000		67000	
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND		ND	300000		300000	
Bromoethane(Ethyl bromide)	74-96-4	108.00	ND		ND	880000		880000	
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND		ND	3100		3100	
Carbon disulfide	75-15-0	76.14	ND		ND	3100		62000	
Methylene chloride	75-09-2	84.94	0.88		3.1	LFC		87000	
Acrylonitrile	107-13-1	53.00	ND		ND	2200		4300	
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND		ND	N.E.		N.E.	
trans-1,2-Dichloroethene	156-60-5	96.94	ND		ND	790000		790000	
n-Hexane	110-54-3	86.17	ND		ND	180000		1800000	
1,1-Dichloroethane	75-34-3	98.96	ND		ND	400000		400000	
Vinyl acetate	108-05-4	86.00	ND		ND	14000		N.E.	
2-Butanone(MEK)	78-93-3	72.10	32		94	590000		590000	
cis-1,2-Dichloroethene	156-59-2	96.94	ND		ND	790000		790000	
Ethyl acetate	141-78-6	88.10	ND		ND	1400000		1400000	
Chloroform	67-66-3	119.40	ND		ND	9800		240000	
Tetrahydrofuran	109-99-9	72.11	67	D	200	590000		590000	
1,1,1-Trichloroethane	71-55-6	133.40	ND		ND	1900000		1900000	
Cyclohexane	110-82-7	84.16	1.0		3.5	1000000		1000000	
2,2,4-Trimethylpentane(Isooctane)	540-84-1	114.20	ND		ND	N.E.		N.E.	
Carbon tetrachloride	56-23-5	153.80	ND		ND	13000		63000	
n-Heptane	142-82-5	100.20	1.9		7.8	350000		2000000	
1,2-Dichloroethane	107-06-2	98.96	ND		ND	4000		200000	
Benzene	71-43-2	78.11	ND		ND	320		3200	
Trichloroethene	79-01-6	131.40	ND		ND	130000		540000	
1,2-Dichloropropane	78-87-5	113.00	ND		ND	LFC		350000	
Methyl Methacrylate	80-62-6	100.12	ND		ND	410000		410000	
Bromodichloromethane	75-27-4	163.80	ND		ND	N.E.		N.E.	
1,4-Dioxane	123-91-1	88.12	ND		ND	3600		360000	
4-Methyl-2-pentanone(MIBK)	108-10-1	100.20	ND		ND	200000		410000	

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St Louis Park, MN 55416

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Project: **Capitol Building Phase II**

Sample ID: **Ground FL**

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Initial	02/08/2015	MTH	M8115.D	E0630	250 cc	1
Dilution1	02/09/2015	MTH	M8129.D	E0630	25 cc	10

NIOSH and OSHA Exposure Limit Comparisons

Target Compounds	CAS#	MW	Result ppbv	Q	Result ug/m3	NIOSH REL ug/m3	>	OSHA PEL ug/m3	>
cis-1,3-Dichloropropene**	10061-01-5	111.00	ND		ND	4500		N.E.	
Toluene	108-88-3	92.14	34	D	130	380000		750000	
trans-1,3-Dichloropropene**	10061-02-6	111.00	ND		ND	4500		N.E.	
1,1,2-Trichloroethane	79-00-5	133.40	ND		ND	55000		55000	
2-Hexanone(MBK)	591-78-6	100.10	ND		ND	4100		410000	
Tetrachloroethene	127-18-4	165.80	ND		ND	LFC		680000	
Dibromochloromethane	124-48-1	208.30	ND		ND	N.E.		N.E.	
1,2-Dibromoethane	106-93-4	187.80	ND		ND	350		150000	
Chlorobenzene	108-90-7	112.60	ND		ND	N.E.		350000	
Ethylbenzene	100-41-4	106.20	ND		ND	430000		430000	
Xylene (p,m)	1330-20-7	106.20	ND		ND	430000		430000	
Xylene (Ortho)	95-47-6	106.20	ND		ND	430000		430000	
Styrene	100-42-5	104.10	ND		ND	210000		430000	
Isopropylbenzene (cumene)	98-82-8	120.19	ND		ND	250000		250000	
Bromoform	75-25-2	252.80	ND		ND	5200		5200	
1,1,2,2-Tetrachloroethane	79-34-5	167.90	ND		ND	6900		34000	
4-Ethyltoluene	622-96-8	120.20	ND		ND	N.E.		N.E.	
1,3,5-Trimethylbenzene	108-67-8	120.20	ND		ND	120000		120000	
2-Chlorotoluene	95-49-8	126.60	ND		ND	260000		N.E.	
1,2,4-Trimethylbenzene	95-63-6	120.20	ND		ND	120000		120000	
1,3-Dichlorobenzene	541-73-1	147.00	ND		ND	N.E.		N.E.	
1,4-Dichlorobenzene	106-46-7	147.00	ND		ND	LFC		450000	
Benzyl chloride	100-44-7	126.00	ND		ND	5200		5200	
1,2-Dichlorobenzene	95-50-1	147.00	ND		ND	300000		300000	
1,2,4-Trichlorobenzene	120-82-1	181.50	ND		ND	37000		N.E.	
Hexachloro-1,3-butadiene	87-68-3	260.80	ND		ND	210		N.E.	
Naphthalene	91-20-3	128.17	ND		ND	52000		52000	

**The concentrations of each isomer should be added if multiple isomers are present and compared to the total screening level.

The > column is used to flag exceedences as marked

Exposure Limit Definitions
REL= Recommended Exposure Limit, PEL= Permissable Exposure Limit

Compound Exposure Definitions
NE= No Limit Established
LFC= Lowest Feasible Concentration

Agency Definitions
NIOSH= The National Institute for Occupational Safety

Reference
Occupational Safety and Health Administration (OSHA) General Industry Air Contaminants Standard (29 CFR 1910.1000)

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Initial	02/08/2015	MTH	M8115.D	E0630	250 cc	1
Dilution1	02/09/2015	MTH	M8129.D	E0630	25 cc	10

USEPA Residential Air Generic Screening Level Summary Table

Target Compounds	CAS#	MW	Result ppbv	Q	Result ug/m3	Carcinogenic ug/m3	>	Non-Carcin. ug/m3	>
Propylene	115-07-1	42.08	ND		ND	N.E.		310	
Freon 12(Dichlorodifluoromethane)	75-71-8	120.90	ND		ND	N.E.		10.0	
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.90	ND		ND	N.E.		N.E.	
Chloromethane	74-87-3	50.49	0.64		1.3	N.E.		9.40	
n-Butane	106-97-8	58.12	21		50	N.E.		N.E.	
Vinyl chloride	75-01-4	62.50	ND		ND	0.160		10.0	
1,3-Butadiene	106-99-0	54.09	ND		ND	0.0810		0.210	
Bromomethane	74-83-9	94.94	ND		ND	N.E.		0.520	
Chloroethane	75-00-3	64.52	ND		ND	N.E.		1000	
Ethanol	64-17-5	46.07	60	D	110	N.E.		N.E.	
Bromoethene(Vinyl bromide)	593-60-2	106.90	ND		ND	0.0760		0.310	
Freon 11(Trichlorofluoromethane)	75-69-4	137.40	ND		ND	N.E.		73.0	
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	5.2		13	N.E.		730	
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.40	ND		ND	N.E.		3100	
Acetone	67-64-1	58.08	91	D	220	N.E.		3200	
1,1-Dichloroethene	75-35-4	96.94	ND		ND	N.E.		21.0	
Acetonitrile	75-05-8	41.00	ND		ND	N.E.		6.30	
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND		ND	N.E.		N.E.	
Bromoethane(Ethyl bromide)	74-96-4	108.00	ND		ND	N.E.		N.E.	
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND		ND	0.410		0.100	
Carbon disulfide	75-15-0	76.14	ND		ND	N.E.		73.0	
Methylene chloride	75-09-2	84.94	0.88		3.1	96.0		63.0	
Acrylonitrile	107-13-1	53.00	ND		ND	0.0360		0.210	
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND		ND	9.40		310	
trans-1,2-Dichloroethene	156-60-5	96.94	ND		ND	N.E.		6.30	
n-Hexane	110-54-3	86.17	ND		ND	N.E.		73.0	
1,1-Dichloroethane	75-34-3	98.96	ND		ND	1.50		N.E.	
Vinyl acetate	108-05-4	86.00	ND		ND	N.E.		21.0	
2-Butanone(MEK)	78-93-3	72.10	32		94	N.E.		520	
cis-1,2-Dichloroethene	156-59-2	96.94	ND		ND	N.E.		N.E.	
Ethyl acetate	141-78-6	88.10	ND		ND	N.E.		N.E.	
Chloroform	67-66-3	119.40	ND		ND	0.110		10.0	
Tetrahydrofuran	109-99-9	72.11	67	D	200	N.E.		210	
1,1,1-Trichloroethane	71-55-6	133.40	ND		ND	N.E.		520	
Cyclohexane	110-82-7	84.16	1.0		3.5	N.E.		630	
2,2,4-Trimethylpentane(Isooctane)	540-84-1	114.20	ND		ND	N.E.		N.E.	
Carbon tetrachloride	56-23-5	153.80	ND		ND	0.410		10.0	
n-Heptane	142-82-5	100.20	1.9		7.8	N.E.		N.E.	
1,2-Dichloroethane	107-06-2	98.96	ND		ND	0.0940		0.730	
Benzene	71-43-2	78.11	ND		ND	0.310		3.10	
Trichloroethene	79-01-6	131.40	ND		ND	0.430		0.210	
1,2-Dichloropropane	78-87-5	113.00	ND		ND	0.240		0.420	
Methyl Methacrylate	80-62-6	100.12	ND		ND	N.E.		73.0	
Bromodichloromethane	75-27-4	163.80	ND		ND	0.0660		N.E.	
1,4-Dioxane	123-91-1	88.12	ND		ND	0.320		11.0	
4-Methyl-2-pentanone(MIBK)	108-10-1	100.20	ND		ND	N.E.		310	

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 #: **491500081**
EMSL Sample #: **491500081-2**
Customer ID: **ANGS50**
Customer PO: **Not Available**

Attn: **Kevin Hagen**
Angstrom Analytical, Inc.
5001 Cedar Lake Road
St Louis Park, MN 55416

Phone: **952-252-0405**
Fax: **952-252-0407**
Date Collected: **01/21/2015**
Date Received: **01/26/2015**

Project: **Capitol Building Phase II**

Sample ID: **Ground FL**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	02/08/2015	MTH	M8115.D	E0630	250 cc	1
Dilution1	02/09/2015	MTH	M8129.D	E0630	25 cc	10

USEPA Residential Air Generic Screening Level Summary Table

Target Compounds	CAS#	MW	Result ppbv	Q	Result ug/m3	Carcinogenic ug/m3	>	Non-Carcin. ug/m3	>
cis-1,3-Dichloropropene**	10061-01-5	111.00	ND		ND	0.610		2.10	
Toluene	108-88-3	92.14	34	D	130	N.E.		520	
trans-1,3-Dichloropropene**	10061-02-6	111.00	ND		ND	0.610		2.10	
1,1,2-Trichloroethane	79-00-5	133.40	ND		ND	0.150		0.0210	
2-Hexanone(MBK)	591-78-6	100.10	ND		ND	N.E.		3.10	
Tetrachloroethene	127-18-4	165.80	ND		ND	9.40		4.20	
Dibromochloromethane	124-48-1	208.30	ND		ND	0.0900		N.E.	
1,2-Dibromoethane	106-93-4	187.80	ND		ND	0.00410		0.940	
Chlorobenzene	108-90-7	112.60	ND		ND	N.E.		5.20	
Ethylbenzene	100-41-4	106.20	ND		ND	0.970		100	
Xylene (p,m)	1330-20-7	106.20	ND		ND	N.E.		10.0	
Xylene (Ortho)	95-47-6	106.20	ND		ND	N.E.		10.0	
Styrene	100-42-5	104.10	ND		ND	N.E.		100	
Isopropylbenzene (cumene)	98-82-8	120.19	ND		ND	N.E.		42.0	
Bromoform	75-25-2	252.80	ND		ND	2.20		N.E.	
1,1,2,2-Tetrachloroethane	79-34-5	167.90	ND		ND	0.0420		N.E.	
4-Ethyltoluene	622-96-8	120.20	ND		ND	N.E.		N.E.	
1,3,5-Trimethylbenzene	108-67-8	120.20	ND		ND	N.E.		N.E.	
2-Chlorotoluene	95-49-8	126.60	ND		ND	N.E.		N.E.	
1,2,4-Trimethylbenzene	95-63-6	120.20	ND		ND	N.E.		0.730	
1,3-Dichlorobenzene	541-73-1	147.00	ND		ND	N.E.		N.E.	
1,4-Dichlorobenzene	106-46-7	147.00	ND		ND	0.220		83.0	
Benzyl chloride	100-44-7	126.00	ND		ND	0.0500		0.100	
1,2-Dichlorobenzene	95-50-1	147.00	ND		ND	N.E.		21.0	
1,2,4-Trichlorobenzene	120-82-1	181.50	ND		ND	N.E.		0.210	
Hexachloro-1,3-butadiene	87-68-3	260.80	ND		ND	0.110		N.E.	
Naphthalene	91-20-3	128.17	ND		ND	0.0720		0.310	

**The concentrations of each isomer should be added if multiple isomers are present and compared to the total screening level.

The > column is used to flag exceedences as marked

Exposure Limit Definitions
RBC= Risk Based Concentration

Compound Exposure Definitions
NE= No Limit Established
LFC= Lowest Feasible Concentration

Agency Definitions
EPA III= USEPA Region 3, Mid-Atlantic

Reference
EPA Region III Risk-Based Concentration (RBC) Table, Nov 2012.

Carcinogenic Exceedence
Value exceeds the theoretical risk that 1 additional case of cancer will occur in a population of 1 million than statistically expected. Thus is a theoretical risk and not an actual epidemiological one.

NonCarcinogenic Exceedence
Value exceeds the theoretical risk that 1 in a population of 100,000 will experience deliterious health effects. Thus is a theoretical risk and not an actual epidemiological one.

NJDEP Certification #: 03036