

# ASBESTOS AND REGULATED WASTE ASSESSMENT REPORT

Fond Du Lac Community Center  
131<sup>st</sup> Avenue & 5<sup>th</sup> Street  
Duluth, Minnesota  
*Project #4217-00*

*Prepared for:*

City of Duluth  
Tari Rayala, AIA  
Facility Projects Specialist  
1532 West Michigan Street  
Duluth, Minnesota 55806

*August 30, 2012*



1011 East Central Entrance, Suite 100  
Duluth, MN 55811  
Tel 218-625-7004  
Fax 218-625-7004  
[www.carlsonmccain.com](http://www.carlsonmccain.com)

ENVIRONMENTAL • ENGINEERING • LAND SURVEYING



August 30, 2012

City of Duluth  
Ms. Tari Rayala, AIA  
Facility Projects Specialist  
1532 West Michigan Street  
Duluth, MN 55806

**Re: Asbestos And Regulated Waste Assessment Report  
Fond Du Lac Community Center  
131<sup>st</sup> Avenue & 5<sup>th</sup> Street  
Duluth, Minnesota**

Dear Ms. Rayala

The following is a final report outlining the asbestos and regulated waste assessment conducted at the above referenced site. This report contains the following information:

- ◆ Introduction
- ◆ Results
- ◆ Recommendations

#### **Introduction**

Carlson McCain, Inc. (Carlson McCain) was contacted by Ms. Tari Rayala to conduct an asbestos and regulated waste inspection of the Fond Du Lac Community Center. On August 22, 2012, Mr. Jon Dacken, a Minnesota Department of Health (MDH) Certified Asbestos Inspector and licensed Lead Risk Assessor, was on-site to collect samples that potentially contained asbestos or lead, and to perform an inspection of the subject property. Inspector certifications are presented in Appendix A.

**Results**

Carlson McCain identified nine components that were potentially asbestos containing materials (ACM). These components included shingles, shingle underlayment, roof flashing, roof field, floor tile, floor tile mastic, wall sheet rock, sheet rock joint compound, and window caulk. Carlson McCain collected one to three bulk samples from each suspect component in accordance with the MDH regulations pertaining to asbestos inspections.

Table 1 below lists the area that was sampled for asbestos (bold and shading indicates positive results), including the sample ID, location, friability, condition, and percent (%) asbestos (if applicable). The samples numbers appearing on the chain of custody and the analytical report appear in parenthesis in Table 1, next to the corresponding USG sample number. Laboratory analytical results are presented in Appendix B.

Table 1 - Sampled Suspect Asbestos Containing Materials (ACM)					
<i>Object or Item</i>	<i>Sample ID</i>	<i>Location</i>	<i>Friable or Non-Friable</i>	<i>Condition</i>	<i>% Asbestos</i>
Shingles	1	Green Rocks	Non-Friable	Fair	None Detected
	1	Black Rocks			
Roof Underlayment	2	Tar	Non-Friable	Good	5% Chrysotile
	2	Black Fibrous			None Detected
Roof Flashing	3 & 4	Gray/Black	Non-Friable	Poor	15% Chrysotile
	3 & 4	Brown Fibrous			30% Chrysotile
	3&4	Tar			None Detected
Roof Field	5 & 6	Tar	Non-Friable	Good	None Detected
	5 & 6	Black Fibrous			
	5 & 6	Tan Fibrous			
	5	Foam			
Floor Tile	7 & 8	Brown Non-Fibrous	Non-Friable	Good	None Detected
	7 & 8	Tan			
Floor Tile Mastic	7 & 8	Black	Non-Friable	Good	None Detected

Table 1 Continued - Sampled Suspect Asbestos Containing Materials (ACM)					
<i>Object or Item</i>	<i>Sample ID</i>	<i>Location</i>	<i>Friable or Non-Friable</i>	<i>Condition</i>	<i>% Asbestos</i>
Exterior Wall Sheetrock	9 & 10	Large Room	Non-Friable	Fair	None Detected
Exterior Wall Joint Compound	11 & 12	Large Room	Non-Friable	Good	None Detected
Window Caulk	13	Interior Side Of Exterior Widow Large Room	Non-Friable	Good	2% Chrysotile

*Paint*

Carlson McCain identified and sampled deteriorated green paint on the building exterior. Table 2 lists the areas of paint that were sampled for lead content (bold and shading indicate results exceeding the Environmental Protection Agency (EPA) guideline of 0.5% by weight), including the sample ID, location and results. Laboratory analytical results are attached with this report.

Table 2 - Sampled Suspect Lead Containing Paint		
<i>Sample ID</i>	<i>Location</i>	<i>Result</i>
L1	Exterior Siding	<0.010% Weight

PCBs

PCB sampling was not performed based on the age of the structure.

### Regulated Waste

The following items are frequently found within a building and must be removed before demolition.

- Appliances
- Ballasts
- Bulbs
- Thermostats
- Paint & Varnish
- Household Cleaning Products

### Recommendations

The roof underlayment, roof flashing, and window caulk are asbestos containing. These items should be removed by a Minnesota Department of Health licensed asbestos abatement contractor before demolition of the building.

This inspection was conducted according to federal, state, and local regulations. If you have any questions regarding this report, please feel free to contact Mr. Jon Dacken at (218) 343-3000.

Sincerely



Jonathan F. Dacken  
Industrial Hygienist

Attachments:           Appendix A - Inspector Certifications  
                              Appendix B - Laboratory Analytical Results



**ASBESTOS  
INSPECTOR**

Certified by:  
State of Minnesota  
Department of Health

**Expires: 04/26/2013**

**Jonathan F. Dacken**  
13 Spruce Dr.  
Duluth, MN 55810

*Frank A. Bismarck*  
Director, Env. Health Div.

No. AI3388

Issued: 05/22/2012



*Jonathan F Dacken*  
Director, Env. Health Div.



**LEAD**  
**Risk Assessor.**

Licensed by:  
State of Minnesota  
Department of Health

License No. LR230  
Expires 04/16/2013

Jonathan F Dacken  
13 Spruce Dr  
Duluth, MN 55810



**EMSL Analytical, Inc.**

14375 23rd Avenue North, Minneapolis, Mn 55447  
Phone/Fax: (763) 449-4922 / (763) 449-4924  
<http://www.emsl.com> [minneapolislab@emsl.com](mailto:minneapolislab@emsl.com)

EMSL Order: 351205534  
CustomerID: PORS22  
CustomerPO:  
ProjectID:

Attn: **Jon Dacken**  
**Carlson McCain, Inc.**  
**1011 East Central Ent**  
**Suite 100**  
**Duluth, MN 55811**

Phone: (218) 625-7004  
Fax: (218) 625-7005  
Received: 08/23/12 9:30 AM  
Analysis Date: 8/24/2012  
Collected: 8/22/2012

Project: 4217-00 Fond DuLac Community Center

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1-Shingle With Green Rocks 351205534-0001	Shingles	Black Fibrous Homogeneous	25% Min. Wool	75% Non-fibrous (other)	None Detected
1-Shingle With Black Rocks 351205534-0001A	Shingles	Black Fibrous Homogeneous	25% Min. Wool	75% Non-fibrous (other)	None Detected
2-Tar 351205534-0002	Roof Underlayment	Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
2-Black Fibrous 351205534-0002A	Roof Underlayment	Black Fibrous Homogeneous	25% Min. Wool	75% Non-fibrous (other)	None Detected
3-Flashing 351205534-0003	Roof Flashing	Gray/Black Non-Fibrous Homogeneous		85% Non-fibrous (other)	15% Chrysotile
3-Brown Fibrous 351205534-0003A	Roof Flashing	Brown Fibrous Homogeneous	10% Cellulose 10% Min. Wool	50% Non-fibrous (other)	30% Chrysotile
3-Tar 351205534-0003B	Roof Flashing	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4-Flashing 351205534-0004	Roof Flashing	Gray/Black Non-Fibrous Homogeneous		85% Non-fibrous (other)	15% Chrysotile

Analyst(s)  
Lance Kalas (28)

Rachel Travis, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn NVLAP Lab Code 200019-0

Initial report from 08/27/2012 07:31:12

**EMSL Analytical, Inc.**

14375 23rd Avenue North, Minneapolis, Mn 55447  
 Phone/Fax: (763) 449-4922 / (763) 449-4924  
<http://www.emsl.com> [minneapolislab@emsl.com](mailto:minneapolislab@emsl.com)

EMSL Order: 351205534  
 CustomerID: PORS22  
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Attn: **Jon Dacken**  
**Carlson McCain, Inc.**  
**1011 East Central Ent**  
**Suite 100**  
**Duluth, MN 55811**

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Project: 4217-00 Fond DuLac Community Center

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4-Brown Fibrous 351205534-0004A	Roof Flashing	Brown Fibrous Homogeneous	10% Cellulose 10% Min. Wool	50% Non-fibrous (other)	30% Chrysotile
4-Tar 351205534-0004B	Roof Flashing	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
5-Tar 351205534-0005	Roof Field	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
5-Black Fibrous 351205534-0005A	Roof Field	Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (other)	None Detected
5-Tan Fibrous 351205534-0005B	Roof Field	Tan Fibrous Homogeneous	60% Cellulose	30% Non-fibrous (other) 10% Perlite	None Detected
5-Foam 351205534-0005C	Roof Field	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6-Tar 351205534-0006	Roof Field	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
6-Black Fibrous 351205534-0006A	Roof Field	Black Fibrous Homogeneous	55% Cellulose	45% Non-fibrous (other)	None Detected

Analyst(s)

Lance Kalas (28)

Rachel Travis, Laboratory Manager  
 or other approved signatory

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 Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn NVLAP Lab Code 200019-0

Initial report from 08/27/2012 07:31:12



### EMSL Analytical, Inc.

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EMSL Order: 351205534  
CustomerID: PORS22  
CustomerPO:  
ProjectID:

Attn: **Jon Dacken**  
**Carlson McCain, Inc.**  
**1011 East Central Ent**  
**Suite 100**  
**Duluth, MN 55811**

Phone: (218) 625-7004  
Fax: (218) 625-7005  
Received: 08/23/12 9:30 AM  
Analysis Date: 8/24/2012  
Collected: 8/22/2012

Project: 4217-00 Fond DuLac Community Center

### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
6-Tan Fibrous 351205534-0006B	Roof Field	Tan Fibrous Homogeneous	60% Cellulose	30% Non-fibrous (other) 10% Perlite	None Detected
7-Brown Non Fibrous 351205534-0007	Tan Floor Tile	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
7-Floor Tile 351205534-0007A	Tan Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
7-Mastic 351205534-0007B	Tan Floor Tile	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
8-Brown Non Fibrous 351205534-0008	Tan Floor Tile	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
8-Floor Tile 351205534-0008A	Tan Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
8-Mastic 351205534-0008B	Tan Floor Tile	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
9 351205534-0009	Exterior Wall Sheetrock	White Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected

Analyst(s)  
Lance Kalas (28)

Rachel Travis, Laboratory Manager  
or other approved signatory

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Initial report from 08/27/2012 07:31:12



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**Suite 100**  
**Duluth, MN 55811**

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Collected: 8/22/2012

Project: 4217-00 Fond DuLac Community Center

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10 351205534-0010	Exterior Wall Sheetrock	White Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
11 351205534-0011	Exterior Wall Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
12 351205534-0012	Exterior Wall Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
13 351205534-0013	Window Caulk	Black Non-Fibrous Homogeneous	2% Wollastonite	96% Non-fibrous (other)	2% Chrysotile

Analyst(s) \_\_\_\_\_

Lance Kalas (28)

Rachel Travis, Laboratory Manager  
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn NVLAP Lab Code 200019-0

Initial report from 08/27/2012 07:31:12



EMSL ANALYTICAL, INC.

Asbestos Lab Services Chain of Custody  
**EMSL Order Number (Lab Use Only):**

5539

Minneapolis, MN  
 14375 23rd Avenue North  
 Minneapolis, MN 55447  
 PHONE: (763) 449-4922  
 FAX: (763) 449-4924

**Company:** Carlson McCain, Inc.  
**Street:** 1011 East Central Entrance Suite 100  
**City/State/Zip:** Duluth, MN 55811  
**Report To (Name):** Jon Dacken  
**Telephone:** 218-625-7004  
**Project Name/Number:** 4217-DD Ford Du Lac Community Center  
**Please Provide Results:** Email **Purchase Order:** NA **State Samples Taken:** MN

**EMSL-Bill to:**  Same  Different  
 If Bill to is Different note instructions in Comments\*\*  
 Third Party Billing requires written authorization from third party

**Fax:**  
**Email Address:** jdacken@carlsonmccain.com

**Turnaround Time (TAT) Options\* - Please Check**  
 3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week  
\*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

**PCM - Air**  
 NIOSH 7400  
 w/ OSHA 9hr. TWA  
**PLM - Bulk (reporting limit)**  
 PLM EPA 600/R-93/116 (<1%)  
 PLM EPA NOB (<1%)  
 Point Count  
 400 (<0.25%)  1000 (<0.1%)  
 Point Count w/ Gravimetric  
 400 (<0.25%)  1000 (<0.1%)  
 NYS 198.1 (friable in NY)  
 NYS 198.6 NOB (non-friable-NY)  
 NIOSH 9002 (<1%)

**TEM - Air**  4.5hr TAT (AHERA only)  
 AHERA 40 CFR, Part 763  
 NIOSH 7402  
 EPA Level II  
 ISO 10312

**TEM - Bulk**  
 TEM EPA NOB  
 NYS NOB 198.4 (non-friable-NY)  
 Chatfield SOP  
 TEM Mass Analysis-EPA 600 sec. 2.5

**TEM - Water: EPA 100.2**  
 Fibers > 10µm  Waste  Drinking  
 All Fiber Sizes  Waste  Drinking

**TEM - Dust**  
 Microvac - ASTM D 5755  
 Wipe - ASTM D6480  
 Carpet Sonication (EPA 600/J-93/167)

**Soil/Rock/Vermiculite**  
 PLM CARB 435 - A (0.25% sensitivity)  
 PLM CARB 435 - B (0.1% sensitivity)  
 TEM CARB 435 - B (0.1% sensitivity)  
 TEM CARB 435 - C (0.01% sensitivity)  
 EPA Protocol (Semi-Quantitative)  
 EPA Protocol (Quantitative)

**Other:**

Check For Positive Stop - Clearly Identify Homogenous Group

**Samplers Name:** \_\_\_\_\_ **Samplers Signature:** \_\_\_\_\_

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1	Shingles	bulk	8-22-12
2	Roof underlayment		
3	Roof flashing		
4	Roof flashing		
5	Roof field		
6	Roof field		
7	tan floor tile		
8	Tan floor tile		

**Client Sample # (s):** 1 - 13 **Total # of Samples:** 13

**Relinquished (Client):** A.F. Dacken **Date:** 8-22-12 **Time:** \_\_\_\_\_

**Received (Lab):** Wendy Fe **Date:** 8/23 **Time:** 9:30 P

**Comments/Special Instructions:**  
**Bill To:** Carlson McCain, Inc., 248 Apollo Drive, Suite 100, Lino Lakes, MN 55014  
**Attention:** Stephanie Symoniak Phone: 763-489-7900 Email: ssymoniak@carlsonmccain.com Purchase Order: NA





**EMSL Analytical, Inc.**

14375 23rd Avenue North, Minneapolis, Mn 55447  
Phone/Fax: (763) 449-4922 / (763) 449-4924  
<http://www.emsl.com> [minneapolislab@emsl.com](mailto:minneapolislab@emsl.com)

EMSL Order: 351205527  
CustomerID: PORS22  
CustomerPO:  
ProjectID:

Attn: **Jon Dacken**  
**Carlson McCain, Inc.**  
**1011 East Central Ent**  
**Suite 100**  
**Duluth, MN 55811**

Phone: (218) 625-7004  
Fax: (218) 625-7005  
Received: 08/23/12 9:30 AM  
Collected: 8/22/2012

Project: 4217-00 Fond Du Lac Community Center

**Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B\*/7000B)**

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0001	8/24/2012	0.010 % wt	<0.010 % wt	Site: Exterior Light Green
<i>Client Sample L1</i>				<i>Collected: 8/22/2012</i>

Rachel Travis, Laboratory Manager  
or other approved signatory

Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. The QC data associated with these results included in this report meet the method QC requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. \* slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request.

Samples analyzed by EMSL Analytical, Inc. Minneapolis, Mn AIHA-LAP, LLC-ELLAP Accredited #163162

Initial report from 08/24/2012 14:38:12

Test Report PB w/RDL-7.26.0 Printed: 8/24/2012 2:38:12 PM



Lead & Metals Chain of Custody  
**EMSL Order Number (Lab Use Only):**

5527

Westmont, NJ  
 107 Haddon Avenue  
 Westmont, NJ 08108  
 PHONE: (856) 858-4800  
 FAX: (856) 858-4960

**Company:** Carlson McCain, Inc. **EMSL-Bill to:**  Same  Different  
 If Bill to is Different note instructions in Comments\*\*  
 Third Party Billing requires written authorization from third party

**Street:** 1011 East Central Entrance Suite 100

**City/State/Zip:** Duluth, MN 55811

**Report To (Name):** Jon Dacken **Fax:**

**Telephone:** 218-625-7004 **Email Address:** jdacken@carlsonmccain.com

**Project Name/Number:** 4217-00 Fond Du Lac Community Center

**Please Provide Results:** Email **Purchase Order:** NA **State Samples Taken:** MN

**Turnaround Time (TAT) Options\* - Please Check**

3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week

\*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> mg/cm <sup>2</sup> <input checked="" type="checkbox"/> % by wt.	SW846-7000B/7420 or AOAC 974.02	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
	NIOSH 7092	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
Air	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <small>*If no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B/7420	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-8010B or C	ICP-AES	0.5 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7420/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-8010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7421	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-8010B or C	ICP-AES	1 mg/kg (ppm)	<input type="checkbox"/>
Wastewater	SM3111B or SW846-7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	SW846-8010B or C	ICP-AES	1 mg/kg (ppm)	<input type="checkbox"/>
Drinking Water	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>

**Other:** **Preservation Method (Water):**

**Name of Sampler:** **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
L1	EXTERIOR LIGHT GREEN	bulk	5-22-12

**Client Sample #'s:** L1 - L1 **Total # of Samples:** 1

**Relinquished (Client):** *A. F. Dacken* **Date:** 5-22-12 **Time:**

**Received (Lab):** *Stephanie Symoniak* **Date:** 5/23/12 **Time:** 9:30 AM

**Comments/Special Instructions:**  
 Bill To: Carlson McCain, Inc., 248 Apollo Drive, Suite 100, Lino Lakes, MN 55014  
 Attention: Stephanie Symoniak Phone: 763-489-7900 Email: ssymoniak@carlsonmccain.com Purchase Order: NA