

Limited Asbestos Inventory Summary

To:	Michael A. Ciofani AIA NCARB
From:	Jeff Senn and Robert Peschel – Sigma
Project Number:	13179
Date:	May 16, 2012
RE:	VA Medical Center – Tomah Contract VA69D-P-0987 VA Project 676-12-114 Remodel Canteen Restaurant Building 401 First Floor, East Wing

Background

Chequamegon Bay Engineering, LLC (Chequamegon Bay) retained Sigma to conduct a supplemental pre-renovation asbestos survey at the VA Medical Center facility located in Tomah, Wisconsin. The purpose of the survey was to augment existing facility information in order to appropriately manage suspect asbestos-containing building materials (ACBM). Mr. Tom McCoy of Sigma, State of Wisconsin certified asbestos inspector (All-117261), performed the supplemental survey on May 8, 2012. Mr. McCoy collected and submitted samples to Micro Analytical, Inc. (Micro) for polarized light microscopy (PLM) asbestos analysis.

Material Assessment Results

The VA previously identified Aircell pipe insulation, pipe fittings insulation, and transite panels as ACBM. The following materials were evaluated by Sigma for the presence of asbestos. The asbestos content is provided in parenthesis.

- Drywall and joint compound (negative)
- Plaster (negative)
- Suspended ceiling tile – 2'x2' white with holes & fissures (negative)
- Fitting on fiberglass Insulation – 2 to 5" (positive, 3% asbestos in off-white woven layer)

PLM analysis revealed asbestos in the thermal fittings on fiberglass. Asbestos was not detected in the remaining materials evaluated. The analytical report and chain of custody are attached.

Estimated Material Quantities

The following provides the general quantities of ACBM.

1st Floor Cafeteria (room 1175)

- Aircell pipe insulation – 400 linear feet
- Pipe fitting insulation – 100 each
- Transite panels – 200 square feet

Basement Crawl Space under Cafeteria

- Pipe fitting insulation – between 150 and 200 each

The estimated quantities of ACBM should be considered a preliminary quantity estimate for each identified ACBM. ***It is recommended that quantities of identified ACBMs be field verified by the abatement contractors bidding on the abatement activities.***

Recommendation

The Aircell thermal insulation, pipe fittings, and transite panels were determined to contain greater than one percent asbestos and are therefore classified as ACBM and subject to the Wisconsin Department of Natural Resources Chapter NR 447 and the Wisconsin Department of Health Services Chapter 159 removal and disposal requirements. Removal of these materials should be performed in accordance with the state and federal rules and regulations.

Sigma also recommends that there is one individual on-site during abatement and demolition that is designated as a "Competent Person". At a minimum, this individual shall be a State of Wisconsin certified asbestos supervisor familiar with applicable asbestos and hazardous material related regulations; have the experience to recognize potential work crew and environmental exposures; institute proper personal protective equipment and personnel monitoring as necessary; have the authority to stop work; and meet training requirements established by the State of Wisconsin. Discovery of suspect asbestos and/or other hazardous materials should be reported immediately to the Owner so that appropriate measures can be implemented. Further sampling of newly discovered materials may be required to confirm the presence of ACBM within walls and other areas that were not visible or reasonably accessible during the asbestos inspection. Any additional or ACBM discovered after this inspection is the responsibility of the building owner.

Attachment

Micro Analytical, Inc. Bulk Asbestos Analytical Report & Chain of Custody Documentation
Asbestos Inspector Certification

ATTACHMENT 1

**Micro Analytical, Inc. Bulk Asbestos Analytical Report
&
Chain of Custody Documentation**

May 8, 2012

MICRO ANALYTICAL, INC.

11521 West North Avenue
Milwaukee, WI 53226
(800) 771-9820 (414) 771-0855
Fax: (414) 771-6570

BULK ASBESTOS ANALYTICAL REPORT
Utilizing PLM and Dispersion Stain Technique

Customer: Sigma Environmental
Services, Inc.
1300 West Canal Street
Milwaukee, WI 53233

Report #: 117561
Received: 14-May-2012
Analyzed: 14-May-2012

Job ID: 13179

Sample ID	% Asbestos	Non-Asbestos Fibrous Components	Non-Fibrous Components	Color	Texture
39	None Detected	5% Fibrous Glass 40% Cellulose	55%	Tan	Compressed
40	None Detected	5% Fibrous Glass 40% Cellulose	55%	Tan	Compressed
41	None Detected	5% Fibrous Glass 40% Cellulose	55%	Tan	Compressed
42	None Detected		100%	White	Compressed
42 II	None Detected		100%	Gray	Compact
43	None Detected		100%	White	Compact
43 II	None Detected		100%	Gray	Compact
44	None Detected		100%	White	Compact
44 II	None Detected		100%	Gray	Compact
45	None Detected		100%	Off-White	Compact
45 II	None Detected	10% Cellulose	90%	White	Compact
46	None Detected		100%	Off-White	Compact
46 II	None Detected	10% Cellulose	90%	White	Compact
47	None Detected		100%	Off-White	Compact
47 II	None Detected	10% Cellulose	90%	White	Compact
48	3% Chrysotile	60% Cellulose	37%	Off-White	Woven
Comments: Outer Layer					
48 II	None Detected	15% Fibrous Glass 5% Cellulose	80%	Gray	Compact
49 II	None Detected	15% Fibrous Glass 5% Cellulose	80%	Gray	Compact

Analyzed By: Jon Yakish

Test method: EPA/600/R-93/116. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of MICRO ANALYTICAL, INC.

Micro Analytical, Inc.
11521 West North Avenue
Milwaukee, WI 53266
414-771-0855 * Fax 414-771-6570

Client: Sigma

Job ID: 13179

Samples: 11

Type: PCM PLM Lead TEM (circle one)

Sample ID	Date Collected	Location/Remarks
39-49	5/8/12	See Attached
		- Need by 5/15/12
		- Same all dry wall, plaster, & ceramic tile.

Relinquished by Date/Time

Received by Date/Time

Relinquished by Date/Time

Received by Date/Time

Relinquished by Date/Time

Received By Date/Time

Notes: Call Results # _____ Fax # _____

Name/Pager # _____ Other _____

SIGMA ENVIRONMENTAL SERVICES, INC.
1300 West Canal Street
Milwaukee, Wisconsin 53233

Supplemental Asbestos Chain of Custody

Project Number: 13179
Number of Samples: 11

In addition to the information provided on the laboratory chain of custody, Sigma requires the following (checked items only):

☒ When the laboratory observes an apparent discrepancy between Sigma's material description and the sample received by the laboratory, the laboratory shall flag the material description on the laboratory report and define on the laboratory report the specific discrepancy(s) noted.

☐ With the exception of drywall and joint compound samples, analyze and report each distinct and separable material layer unless otherwise instructed on the attached "Sigma Sample Material List" sheet(s). Laboratory to determine distinct and separable layers and provide layer descriptions for each individual layer.

☒ Analyze and report each distinct and separable material layer unless otherwise instructed on the attached "Sigma Sample Material List" sheet(s). Laboratory to determine distinct and separable layers and provide layer descriptions for each individual layer.

☒ Discontinue analysis of homogenous material upon determining that the material contains greater than one percent asbestos content. If the homogeneous material contains multiple layers, continue analysis of each layer until all samples have been analyzed or until it has been determined that the layer contains greater than one percent asbestos content. See item #4 for flooring system Positive Stop instructions.

For example, if Sigma submitted three roofing system samples and the top layer sample analysis revealed asbestos is present at greater than one percent, the top layer analysis would be discontinued but the underlying layer(s) analysis would continue until greater than one percent asbestos is detected or until all three underlying sample layers have been analyzed. This assumes, however, that the materials are in fact homogenous. Through microscopic examination, it may be determined by the analyst that there are additional layers not present in each sample. In that case, the individual sample layer should also be analyzed.

☒ Flooring Systems (including floor tile systems, vinyl flooring systems, vinyl laminate systems, and stair tread systems): Conduct analysis of the mastic layer(s) first. If analysis reveals greater than one percent asbestos content, discontinue analysis of the mastic layers and do not analyze the flooring material (tile, vinyl, laminate, etc.) Call Jeff Senn at (414) 643-4151 with specific questions.

Sigma Sample Material List

Page / of 1

Project: ~~13110~~ / 13179

Date: 5/8/12

Building:

Inspectors: TMM/COY

Sample Number	Homogenous Material Code	Homogeneous Material Description	Functional Area/ Room Number	Location within Room
01	MCM	Carpet Mastic-Tan	1120	East Center
02	↓	↓	1113a	Northeast
03	↓	↓	1108	Northwest
04	MDWC	Drywall / Joint Compound	1120	East Center
05	↓	↓	1108	Northwest
06	↓	↓	1112	South Center
07	MSCT	Suspended Ceiling Tile	1120	East Center
08	↓	2'x4' Holes + Fissures	1113	Center
09	↓	↓	1108	Center
10	SPI	Plaster	1118	North Center
11	↓	↓	1116	Northwest
12	↓	↓	1113a	Northeast
13	↓	↓	1113	West Center
14	↓	↓	1108	East Center
15	MCT	Ceiling Tile/Mastic 12"x12" Fissures	1113a	Southwest
16	MPB	Pyro-Bar	1113	West Center
17	MLV	Linoleum Flooring-Blue w/ Swirls	Corridor	South
18	MTF	Terrazzo Floor-12"x12" Red/Brown Chips	1118	Northwest
19	MCTM-1	Ceramic Tile/Mastic	Corridor	Southeast
20	↓	1"x1" Beige/Brown/Creme	Corridor	Southwest
21	↓	↓	Corridor	Northwest
22	MCTM-2	Ceramic Tile/Mastic	1118	North Center
23	↓	4"x4" Creme w/ Gold Flecks	1118	West Center
24	↓	↓	1118	Southeast
25	MCTM-3	Ceramic Tile/Mastic	1116	Northwest
26	↓	2"x2" Creme	1116	Northwest
27	↓	↓	1116	Southwest
28	MCTM-4	Ceramic Tile/Mastic	1116	Southwest
29	↓	4"x4" Creme	1116	Northwest
30	↓	↓	1116	Northwest
31	TAS	Aircell	1120	East Center
32	↓	↓	1113	West Center
33	↓	↓	1108	East Center
34	TASF	Thermo Fitting on Aircell	1120	East Center
35	↓	5"	1113	West Center
36	↓	↓	1108	East Center
37	MC-1	Door Caulk-White	Exterior	North Door
38	MC-2	Stair Caulk White	1112	North Center
39	MSCT-2	Suspended Ceiling Tile	Canteen	North Center
40	↓	2'x2' Holes + Fissures	↓	North Center
41	↓	↓	↓	North Center
42	SPI-2	Plaster	↓	North Center
43	↓	↓	↓	↓
44	↓	↓	↓	↓
45	MDWC-2	Drywall / Joint Compound	↓	↓
46	↓	↓	↓	↓
47	↓	↓	↓	↓
48	TFSF-2	Thermo Fitting on Fiberglass	crawl space	West Center
49	↓	5"	↓	↓
50				

13110

K-13179

ATTACHMENT 2

Asbestos Inspector Certification

**ASBESTOS SUPERVISOR**

Issued By

STATE OF WISCONSIN

Dept. of Health Services

Thomas J McCoy Jr
809 Buena Vista Ave
Waukesha WI 53188-3849

		195 lbs	5' 10"
ACS-117261	Exp: 03/03/2013	02/01/1960	Male

Training due by: 03/03/2013

**ASBESTOS INSPECTOR**

Issued By

STATE OF WISCONSIN

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Thomas J McCoy Jr
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