

Asbestos Survey Report

June 2015

North Washington Street Reconstruction
Bismarck, North Dakota

Prepared for:
The City of Bismarck
221 N. 5th Street
Bismarck, ND 58506

Prepared by:
KLJ
4585 Coleman Street
Bismarck, ND 58503



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SCOPE OF SERVICES

KLJ was contracted by the City of Bismarck to conduct an asbestos inspection survey on one barn structure (barn) located at the residence of 4200 North Washington Street in Bismarck, North Dakota. Please refer to **Figure 1, Project Location Map**. This asbestos survey serves to comply with North Dakota Department of Health (NDDH) regulations Chapter 33-15-13 of the North Dakota Air Pollution Control Rules that requires sampling of any suspect building or structure materials that will be disturbed as part of a renovation or demolition activity.

The structure was surveyed for asbestos-containing materials (ACM) on March 9, 2015. Based on laboratory analysis of bulk samples collected from the sites, no building or structure materials were determined to contain asbestos.

No other inaccessible and/or assumed ACMs were identified.





Figure 1, Project Location Map



GENERAL SITE CONDITIONS

The Barn was located along the existing north Washington street in Bismarck, North Dakota. It is unknown when the barn was built. Construction of the barn consisted of a wooden frame and rafters, with asphalt shingles for roofing materials and glass windows. No thermal insulation materials were identified. Please refer to **Appendix A, Site Photos**. It is KLJ's understanding that the identified structure is scheduled for demolition and removal as part of the design plans for the roadway reconstruction.

ASBESTOS INSPECTION PROCEDURE

The asbestos inspection of the barn was conducted on March 9th, 2015 by Inspector Tom Naas (ND License # 5302) of KLJ. Mr. Naas was allowed full access to the structure. Please refer to **Appendix B: Licenses and Certifications**.

Data for this inspection and report utilized the following procedures:

- ◆ Existing design drawings and asbestos reports for the structure were reviewed, if available.
- ◆ Accessible suspect ACMs were identified using Environmental Protection Agency (EPA) Asbestos Hazard Emergency Response Act (AHERA) protocols.
- ◆ Bulk samples of suspect friable and non-friable materials were collected and analyzed to determine the presence of ACMs.
- ◆ ACMs were quantified if present.

The barn was visually inspected for the presence of materials that were suspected to contain asbestos. As these materials were identified, bulk samples were obtained and placed into individual containers for transport for analysis to a National Voluntary Lab Accreditation Program (NVLAP - #500053-0)/American Industrial Hygiene Association (AIHA) accredited laboratory, EMLab P&K, LLC, in Denver, Colorado 80002.

Materials visibly identified as non-asbestos (fibrous glass, foam rubber, wood, etc.) were not sampled. The asbestos survey consisted of three basic steps: 1) conduct a visual survey of the proposed space; 2) identify homogeneous areas of suspect surfacing, thermal system insulation, and miscellaneous materials; and 3) sample accessible, friable and non-friable suspect materials.

Actual collection of a bulk asbestos sample involves physically removing a small piece of material and placing it in a marked, airtight container. Sample containers are marked with a unique identification number, which is also noted in the field notes.



RESULTS

A total of three bulk samples (asphalt shingles) were collected and analyzed during the assessment of the barn; no ACMs were identified. The laboratory results for this sample can be found in **Appendix C: Lab Results and Chain of Custody Documentation**.

GENERAL

Services performed by this North Dakota Certified Asbestos Inspector, with KLJ, for this project have been conducted in a professional manner consistent with the level of care and skill ordinarily exercised by members of this profession currently practicing in this area under similar time and budget restraints. The findings and conclusions presented herein apply to the conditions at the time of the survey. The report is designed to aid the building owner, architect, construction manager, general contractors, and potential asbestos abatement contractors in locating ACMs. No warranty, expressed or implied, is made.

This asbestos inspection for the site followed acceptable sampling and analytical protocol. The sample collection, interpretation, and report were prepared by, or under the direct supervision of the Project Manager:



Tom Naas

Certified Asbestos Inspector #5302

06/19/2015

Date





Appendix A

Site Photos

North Washington Street Reconstruction



Photograph #1	Barn Structure	
Date Taken:	March 9, 2015	
Direction:	North	
Description:	Barn exterior	



Photograph #2	Barn Structure	
Date Taken:	March 9, 2015	
Direction:	East	
Description:	Barn interior	



Photograph #3	Barn Structure	
Date Taken:	March 9, 2015	
Direction:	West	
Description:	Barn interior	



Photograph #4	Barn Structure	
Date Taken:	March 9, 2015	
Direction:	Northwest	
Description:	Roof – Note the asphalt shingles	



Appendix B

Licenses and Certification



North Dakota
Department of Health

Asbestos Abatement Contractor License

This is to certify that KADRMAS, LEE & JACKSON is licensed in accordance with Chapter 33-15-13 of the North Dakota Air Pollution Control Rules to perform Asbestos Abatement Work in the State of North Dakota.

Expires on December 31, 2015

Certificate No. ND 453

Dale P. Patrick, Manager
Asbestos Control Program



University of North Dakota
 1015 North 43rd Street Stop 8273
 Grand Forks, ND 58202-8273
 701-777-0384

Hereby certifies that

Tom Naas

KLJ Engineering
 PO Box 4130
 Bismarck, ND 58502

Has attended and successfully completed the

**ASBESTOS IN BUILDINGS:
 INSPECTOR REFRESHER COURSE**

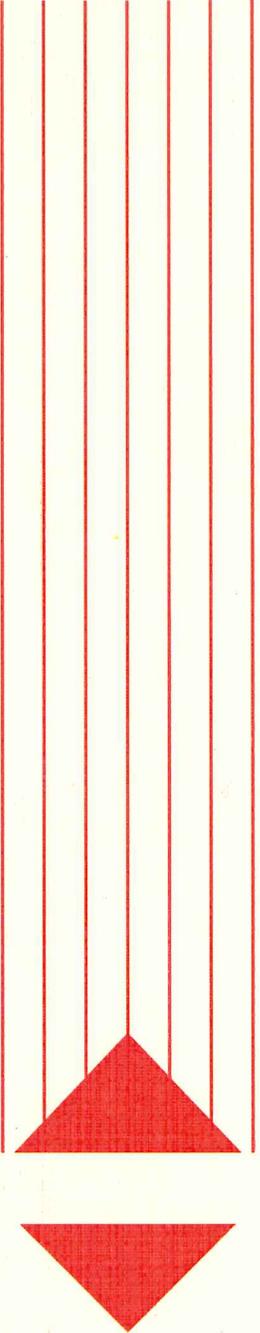
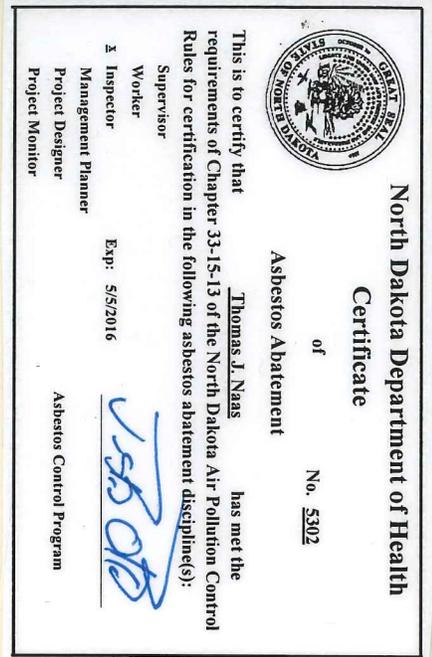
In compliance with Title II of TSCA
 and approved under Chapter 33-15-13
 of the North Dakota Air Pollution rules
 and by the State of Minnesota under
 Minnesota Rules 4620.3702 to 4620.3722

May 5, 2015

Course Location: Grand Forks, ND
 Exam Date: May 5, 2015
 Certificate No: AI-15055R-0505
 Expiration Date: **May 5, 2016**

Monica Evardd

Environmental Training Institute





Appendix C

Lab Results and Chain of Custody Documentation



Report for:

Tom Naas
Kadmas, Lee & Jackson, Inc.
4585 Coleman Street
Bismarck, ND 58503

Regarding: Project: Washington Barn; Barn
EML ID: 1371191

Approved by:

Dates of Analysis:
Asbestos PLM: 05-28-2015

Approved Signatory
Noah Lazarte

Service SOPs: Asbestos PLM (EPA Methods 600/R-93/116 & 600/M4-82-020, SOP EM-AS-S-1267)

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the items tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Kadrmas, Lee & Jackson, Inc.
 C/O: Tom Naas
 Re: Washington Barn; Barn

Date of Sampling: 03-09-2015
 Date of Receipt: 05-28-2015
 Date of Report: 06-02-2015

ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116

Total Samples Submitted: 3
Total Samples Analyzed: 3

Total Samples with Layer Asbestos Content > 1%: 0

Location: M-HA1-1, White Covered Shingle

Lab ID-Version‡: 6294520-1

Sample Layers	Asbestos Content
Black Roofing Shingle with White Pebbles	ND
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Moderate

Location: M-HA1-2, Faded White Covered Shingle

Lab ID-Version‡: 6294521-1

Sample Layers	Asbestos Content
Black Roofing Shingle with White Pebbles	ND
Composite Non-Asbestos Content:	40% Cellulose
Sample Composite Homogeneity:	Moderate

Location: M-HA2-1, Thick Shingle/ Tar Black

Lab ID-Version‡: 6294522-1

Sample Layers	Asbestos Content
Brown Roofing Tar and Felt (Top)	ND
Brown Roofing Tar and Felt (Bottom)	ND
Composite Non-Asbestos Content:	60% Cellulose
Sample Composite Homogeneity:	Poor

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

