

# ***Asbestos Survey Report***

June 2017

Edgewater Country Club  
Asbestos Inspection  
New Town, North Dakota

Prepared for:  
North Dakota Department of Transportation  
608 East Boulevard Avenue  
Bismarck, North Dakota 58505-0700

Prepared by:  
KLJ  
4585 Coleman Street  
Bismarck, North Dakota 58503



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## SCOPE OF SERVICES

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KLJ was contracted by the North Dakota Department of Transportation (NDDOT) to conduct an asbestos inspection survey on a total of four structures associated with the Edgewater Country Club located along ND 23 in New Town, North Dakota. Please refer to **Figure 1, Project Location Map**. This asbestos survey serves to facilitate compliance 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. It is KLJ's understanding that the identified structures are scheduled for demolition and removal.

## GENERAL SITE CONDITIONS

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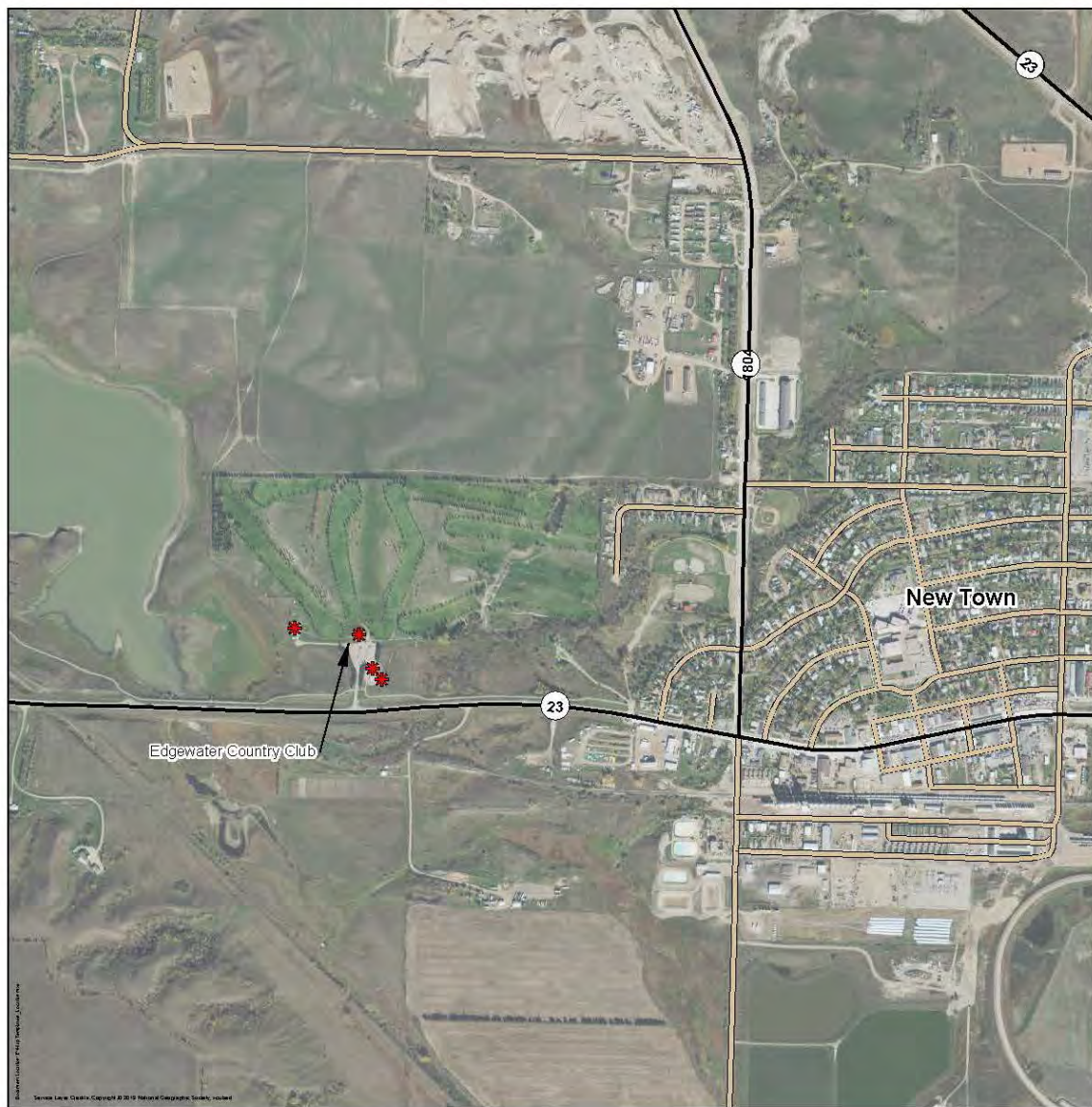
The Edgewater Country Club is located along ND 23 in New Town, North Dakota. The four buildings identified in this report are currently in use/occupied. The club house structure is approximately 95 feet in length by 62 feet in width. The construction of the structure consists of wood framing with a mixture/layers of sheet rocked interior walls, paneled interior walls, and lath and plaster interior walls; and stucco siding on the exterior walls. The basement/golf cart space has wood framing with walls that are a combination of lath and plaster, and a stucco-like material. The attic was not inspected as advised by the tenant due to safety concerns. The roof is coated with roll-type tar paper, asphalt shingles with tar mastic/sealant.

In addition to the clubhouse, three other structures were present on the grounds. A 100- by 40-foot pole barn (i.e., maintenance building) and a 57- by 27-foot small garage were inspected but no samples were taken, due to construction being entirely of steel, wood and concrete, including a steel roof. A second large garage, 155- by 27-foot, was inspected; only one sample was taken from an asphalt shingle roof.

Please refer to **Appendix A, Site Photos**.







## Edgewater Country Club Asbestos Inspection Mountrail County, ND

★ Study Area

0 0.05 0.1 0.2 0.3 Miles



**Figure 1, Project Location Map**



## ASBESTOS INSPECTION PROCEDURE

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The asbestos inspection of the Edgewater Country Club was conducted on May 18, 2017, by inspectors Nute Bishop (ND License # 5846) and Jessica Aasand (ND License #5874) of KLJ. The inspectors were allowed full access to the structures. 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 structures were reviewed, if available.
- ◆ Accessible suspect asbestos containing materials (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 structure was visually inspected for the presence of materials that were suspected to contain asbestos. As these materials were identified, bulk samples were collected 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 Arvada, Colorado.

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.

The suspect materials for which samples were collected include:

- ◆ Exterior siding, crack sealant, and window/door caulking.
- ◆ Roofing materials including shingles, tar paper, tar mastic, and spray coating.
- ◆ Interior sheetrock/texture coatings
- ◆ Floor tile/mastic.
- ◆ Interior ceiling tile.

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 on the lab chain of custody. Please refer to **Appendix C, Lab Results and Chain of Custody Documentation**.



## RESULTS

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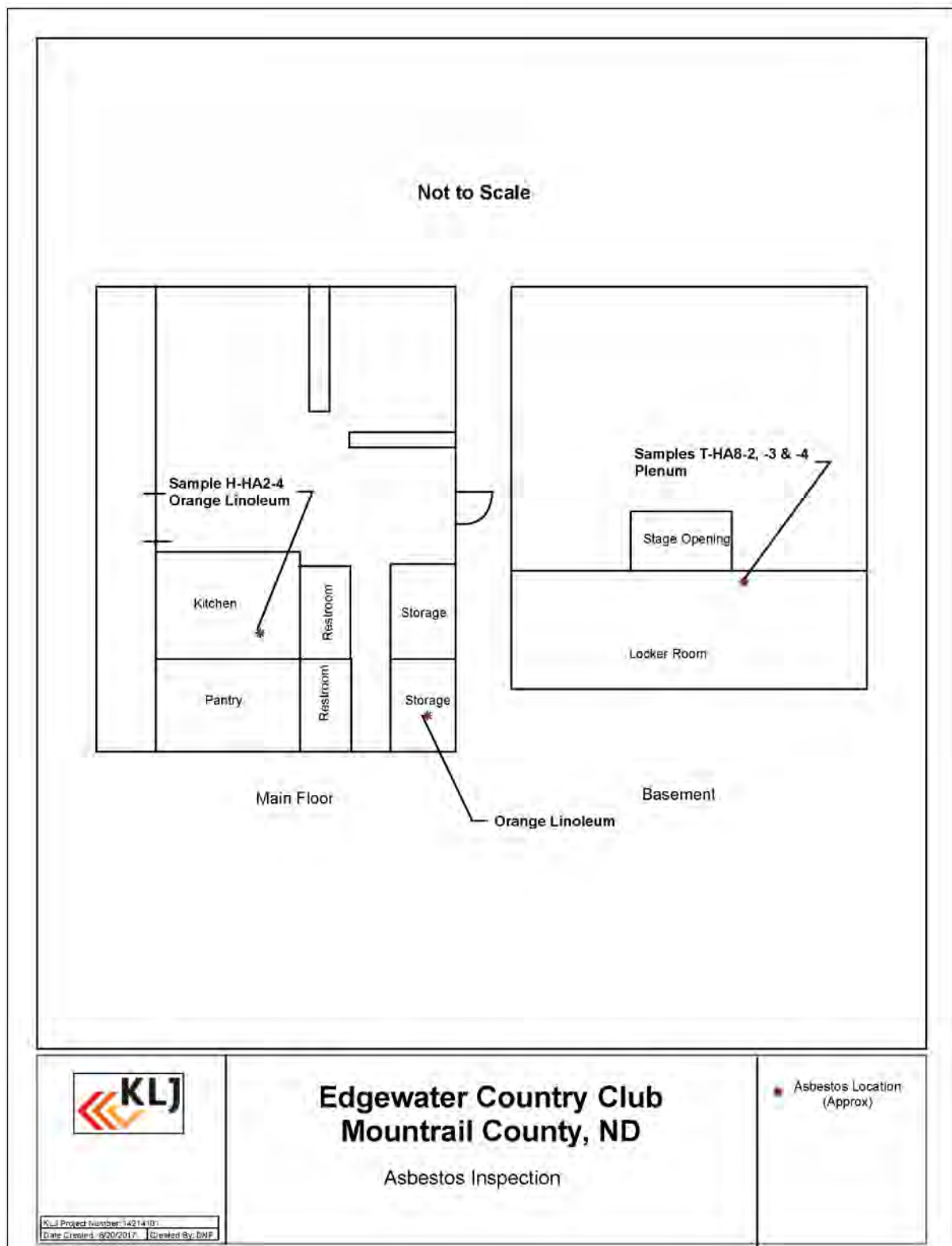
Two buildings (maintenance building and small garage) were not sampled for asbestos, as these structures did not contain suspect materials due to construction consisting completely of steel, wood, and concrete. In the clubhouse, 47 bulk samples were collected and analyzed during the assessment of the clubhouse. In addition, three samples were obtained from the roof of the large garage. Four samples were identified as ACM within the clubhouse; the sample from the large garage roof was not identified as ACM. The laboratory results for these samples can be found in **Appendix C, Lab Results and Chain of Custody Documentation**.

The following describes the details of the four asbestos containing samples:

- M-HA2-4: This non-friable sample was collected from a layer of older clubhouse flooring that was visible under newer layers of flooring in the kitchen area. This flooring was seen in the storage room of the clubhouse as well. The layered sample contained orange linoleum with a fibrous backing along with a yellow mastic. The orange linoleum with fibrous backing was found to contain 15 percent chrysotile asbestos. It is unknown how much of the ACM exist within the building due to multiple renovations and remodeling projects, which may have removed some material or have covered up the material.
- T-HA8-2, 3,4: These samples were collected from a plenum near the old stage opening in the locker room area. The layered sample contained off-white wrapping material that was extremely friable. The wrapping was found to contain 70 percent chrysotile asbestos. This material was not seen in any other part of the structure. It is unknown how much of the ACM exists within the building due to multiple renovations and remodeling projects, which may have removed or covered up the material.

Please refer to **Appendix A, Site Photos**, and **Figure 2, ACM Locations within Clubhouse**.





**Figure 2, ACM Locations within Clubhouse**

## CONCLUSIONS AND RECOMMENDATIONS

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### Conclusions

Three of the four buildings associated with the Edgewater Country Club did not contain asbestos. Four asbestos containing samples were obtained from the clubhouse. All ACMs must be handled according to Occupational Safety and Health Administration (OSHA), EPA, and applicable state and local regulations.

The contractor responsible for the demolition of the site is required to submit a "Notification of Demolition and Renovation" form to the North Dakota Department of Health (NDDH) at least 10 days prior to beginning the activity. The contractor is also required to obtain a City of New Town Demolition Permit. Prior to demolition of the structure, ACMs would need to be removed and an asbestos management/removal plan would be necessary that would follow proper reporting requirements. Pursuant to article 33-15 of the North Dakota Administrative Code, all regulated asbestos-containing material (RACM) that would be disturbed as part of the demolition must be properly removed before beginning the project. The individuals removing the material must be certified and the contractors licensed through NDDH. RACM includes both friable ACM and non-friable ACM that will be made friable during the project. For more information on the removal requirements and certified contractors, please refer to the NDDH Asbestos Control Program website at <http://www.ndhealth.gov/AQ/IAQ/ASB/>.

### Recommendations

KLJ did not conduct any destructive investigations to identify concealed suspect ACMs beneath or behind architectural finishes. The asbestos inspection was completed following standard industry practices allowed by State Certification. If demolition uncovers suspect asbestos-containing materials not sampled in this report, the material should be sampled for asbestos content. Additional ACM may be present on site in inaccessible or concealed spaces. These spaces include, but are not limited to: attic, pipe chases, spaces between wall/ceiling/door/floor cavities, interior of mechanical components such as interior ducts, etc. If demolition activities make these areas accessible, KLJ recommends that a thorough assessment of these spaces be conducted at that time to identify and confirm the presence or absence of additional ACMs. Until then, all such unidentified materials should be treated as Presumed Asbestos Containing Material (PACM) in accordance with 29 CFR 1926.1101 and 1910.1001.





## GENERAL

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Services performed by these North Dakota Certified Asbestos Inspectors, employed by 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 contractor(s) and asbestos abatement contractor(s) in locating ACMs. No warranty, expressed or implied, is made.



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**Nute Bishop**  
**Certified Asbestos Inspector #5846**

06/14/2017

**Date**



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**Jessica Aasand**  
**Certified Asbestos Inspector #5874**

06/14/2017

**Date**





# Appendix A

*Site Photos and Sample Information*




**Photograph #816**

<b>Building:</b>	Edgewater Country Club	
<b>Date Taken:</b>	May 18, 2017	
<b>Description:</b>	Main Dining – General Overview	




**Photograph #818**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA1-1,2
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Main Dining	
<b>Description:</b>	White 6'x 1' ceiling tile and 2'x1' ceiling tile	




**Photograph #815**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA1-1 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Main Dining	
<b>Description:</b>	White 2'x1' ceiling tile	




**Photograph #817**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA1-2 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Main Dining	
<b>Description:</b>	White 6'x 1' ceiling tile	






**Photograph #819**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA1-3, 4  
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Main dining	
<b>Description:</b>	Green carpet and adhesive/ Blue carpet and adhesive	




**Photograph #820**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA1-5  
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Main Dining	
<b>Description:</b>	White window caulk	




**Photograph #821**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA1-6
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Main Dining	
<b>Description:</b>	Tan checked carpet and adhesive	



**Photograph #822**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA1-7
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Main dining	
<b>Description:</b>	Tan checked carpet and adhesive	



**Photograph #823**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA1-8
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Main Dining	
<b>Description:</b>	White Formica counter top and adhesive	



**Photograph #824**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA1-9
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Main dining	
<b>Description:</b>	Pecan Formica counter top and adhesive	






**Photograph #825**

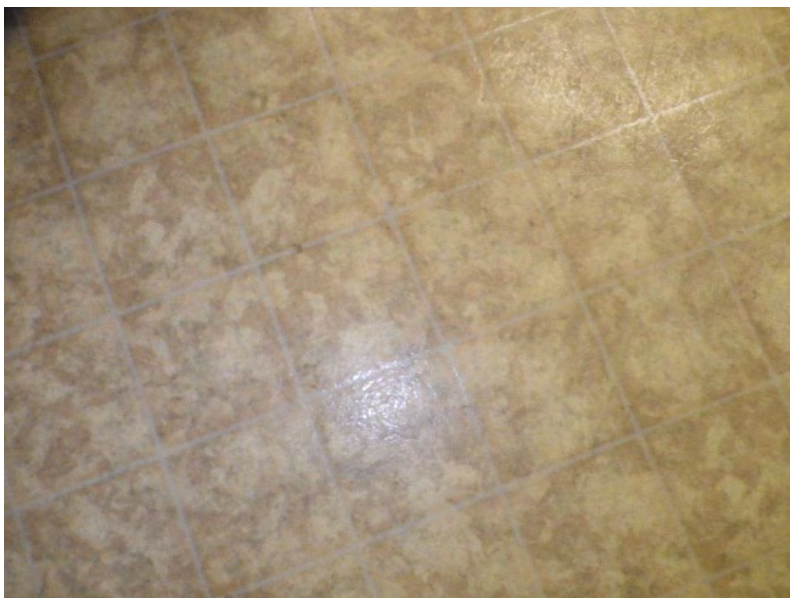
<b>Building:</b>	Edgewater Country Club	Sample #: M-HA1-10
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Main dining	
<b>Description:</b>	Peach Formica counter top and adhesive	




**Photograph #826**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA2-1
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Kitchen	
<b>Description:</b>	Brown Formica counter top and adhesive	






**Photograph #827**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA2-2 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Kitchen	
<b>Description:</b>	Tan 2"x2" linoleum and adhesive	




**Photograph #828**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA2-3 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Kitchen	
<b>Description:</b>	Granite Formica counter top and adhesive	




**Photograph #829**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA2-4
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Kitchen	
<b>Description:</b>	Orange linoleum and adhesive-ACM	




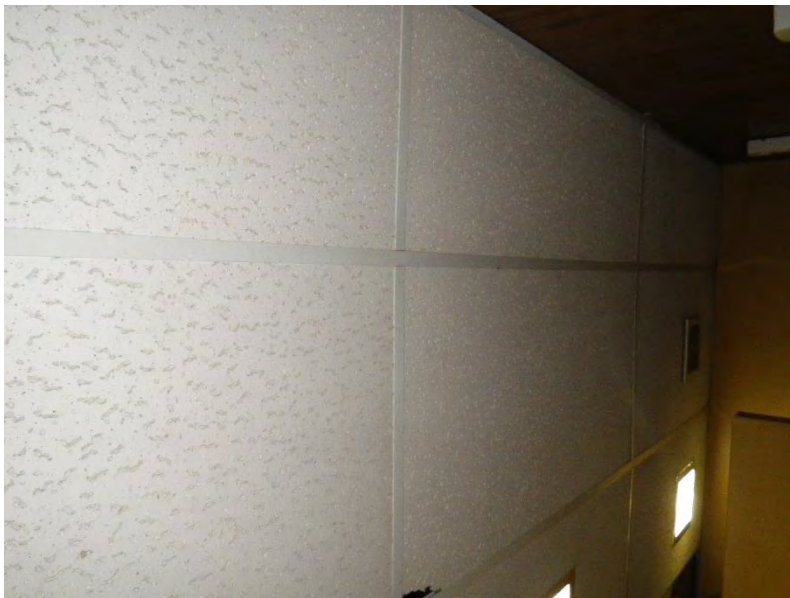
**Photograph #830**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA3-1
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Pantry	
<b>Description:</b>	White mosaic linoleum and adhesive	




**Photograph #831**

<b>Building:</b>	Edgewater Country Club	Sample #: S-HA3-1,2,3 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Pantry	
<b>Description:</b>	Drywall and texture	




**Photograph #833**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA4-1 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Men's restroom	
<b>Description:</b>	Drop ceiling tile	






**Photograph #834**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA4-2
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Men's restroom	
<b>Description:</b>	Tile and mastic	




**Photograph #835**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA5-1
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Women's restroom	
<b>Description:</b>	Drop ceiling tile	






**Photograph #836**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA5-2 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Women's restroom	
<b>Description:</b>	Tile and mastic	




**Photograph #837**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA5-3 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Women's restroom	
<b>Description:</b>	Bathroom carpet and adhesive	




**Photograph #838**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA5-4 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Women's restroom	
<b>Description:</b>	Baseboard and mastic	



**Photograph #839**

<b>Building:</b>	Edgewater Country Club	Sample #: S-HA6- 1,2,3,4,5,6,7 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Exterior	
<b>Description:</b>	Stucco	





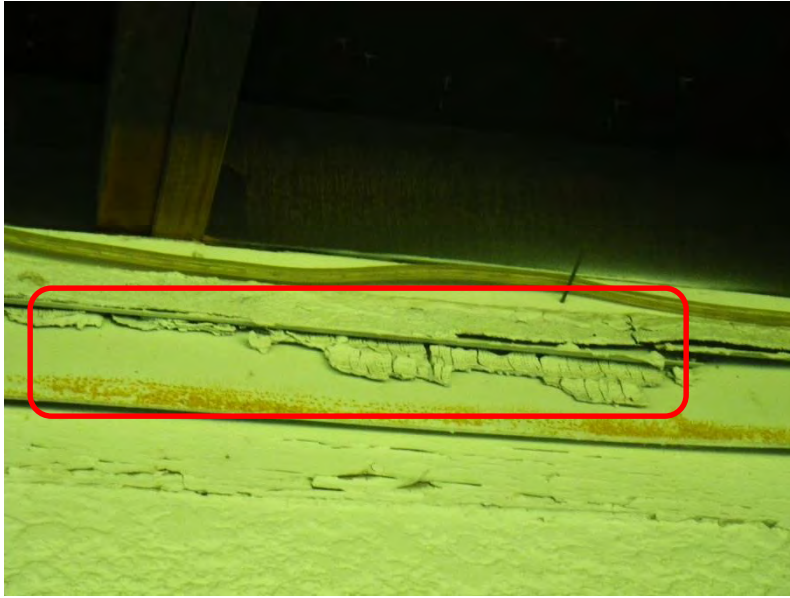
Photograph #840

Building:	Edgewater Country Club	Sample #: S-HA6-1,2,3,4,5,6,7
Date Taken:	May 18, 2017	
Sample Location:	Exterior-facing road	
Description:	Stucco	




Photograph #841

Building:	Edgewater Country Club	Sample #: S-HA6-1,2,3,4,5,6,7
Date Taken:	May 18, 2017	
Sample Location:	Exterior-rear deck	
Description:	Stucco	



**Photograph #842**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA6-8, 9 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Exterior	
<b>Description:</b>	Tar-paper	




**Photograph #843**

<b>Building:</b>	Edgewater Country Club	Sample #: S-HA7- 1,2,3,4,5,6,7 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Golf cart storage	
<b>Description:</b>	Wall surfacing	






**Photograph #844**

<b>Building:</b>	Edgewater Country Club	Sample #: S-HA7-1,2,3,4,5,6,7
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Golf cart storage	
<b>Description:</b>	Wall surfacing	




**Photograph #845**

<b>Building:</b>	Edgewater Country Club	Sample #: S-HA7-1,2,3,4,5,6,7
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Golf cart storage	
<b>Description:</b>	Wall surfacing	




**Photograph #846**

<b>Building:</b>	Edgewater Country Club	Sample #: S-HA7-8,9,10 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Golf cart storage	
<b>Description:</b>	Lath and plaster	




**Photograph #847**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA8-1 
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Locker room	
<b>Description:</b>	Carpet and adhesive	



**Photograph #848**

<b>Building:</b>	Edgewater Country Club	Sample #: T-HA8-2,3,4
<b>Date Taken:</b>	May 18, 2017	
<b>Sample Location:</b>	Locker room	
<b>Description:</b>	Duct covering-Asbestos Containing Material	




**Photograph #851**

<b>Building:</b>	Edgewater Country Club	No samples taken
<b>Date Taken:</b>	May 18, 2017	
<b>Description:</b>	Pole barn	






Photograph #849

Building:	Edgewater Country Club	No samples taken
Date Taken:	May 18, 2017	
Description:	Pole barn interior	



Photograph #856

Building:	Edgewater Country Club	No samples taken
Date Taken:	May 18, 2017	
Description:	Small garage exterior	




**Photograph #854**

<b>Building:</b>	Edgewater Country Club	Sample #: M-HA9-1, 2, 3
<b>Date Taken:</b>	May 18, 2017	
<b>Description:</b>	Large garage exterior	



**Photograph #855**

<b>Building:</b>	Edgewater Country Club	Samples: M-HA9-1, 2, 3
<b>Date Taken:</b>	May 18, 2017	
<b>Description:</b>	Large garage exterior	



Building: **Edgewater County Club**

Building Owner: **City of New Town**

Address: **100 Highway 23**

**New Town, ND 58763**

Inspectors: **Nute Bishop and Jessica Aasand**

Date: May 18, 2017

Sample Number	Homogeneous Area	Description	Area of Sampled Material	Photo Number	Notes
M-HA1-1	Main Dining	White 2'x1'ceiling tile and coating		815	Overview room photo 816
M-HA1-2	Main Dining	White 6'x1'ceiling tile and coating		817	Photo 818 sample 1 &2
M-HA1-3	Main Dining	Green carpet and adhesive		819	
M-HA1-4	Main Dining	Blue carpet and adhesive		819	
M-HA1-5	Main Dining	White window caulk		820	
M-HA1-6	Main Dining	Tan checked carpet and adhesive		821	
M-HA1-7	Main Dining	Tan checked carpet and adhesive		822	
M-HA1-8	Main Dining	White Formica counter top and adhesive		823	
M-HA1-9	Main Dining	Pecan Formica counter top and adhesive		824	
M-HA1-10	Main Dining	Peach Formica counter top and adhesive		825	
M-HA2-1	Kitchen	Peach Formica counter top and adhesive		826	
M-HA2-2	Kitchen	Tan 2"x2" linoleum and adhesive		827	
M-HA2-3	Kitchen	Granite Formica counter top and adhesive		828	
M-HA2-4	Kitchen	Vintage linoleum and adhesive		829	
M-HA3-1	Pantry	White mosaic linoleum and adhesive		830	
S-HAS3-1	Pantry	Drywall and texture		831	
S-HAS3-2	Pantry	Drywall and texture		831	
S-HAS3-3	Pantry	Drywall and texture		831	
M-HA4-1	Men's Bathroom	Men's bathroom drop ceiling		833	
M-HA4-2	Men's Bathroom	Tile and mastic		834	
M-HA5-1	Women's Bathroom	Women's bathroom drop ceiling		835	
M-HA5-2	Women's Bathroom	Women's tile and mastic		836	
M-HA5-3	Women's Bathroom	Women's bathroom carpet		837	
M-HA5-4	Women's Bathroom	Women's bathroom baseboard and mastic		838	
S-HA6-1	Exterior	Stucco siding		839	
S-HA6-2	Exterior	Stucco siding		840	
S-HA6-3	Exterior	Stucco siding		841	
S-HA6-4	Exterior	Stucco siding		841	
S-HA6-5	Exterior	Stucco siding		841	
S-HA6-6	Exterior	Stucco siding		841	
S-HA6-7	Exterior	Stucco siding		841	
M-HA6-8	Exterior	Tar paper above deck		842	
M-HA6-9	Exterior	Asphalt shingle		842	
S-HA7-1	Golf cart storage	Golf cart wall surfacing		843	
S-HA7-2	Golf cart storage	Golf cart wall surfacing		844	

S-HA7-3	Golf cart storage	Golf cart wall surfacing		845	
S-HA7-4	Golf cart storage	Golf cart wall surfacing		845	
S-HA7-5	Golf cart storage	Golf cart wall surfacing		845	
S-HA7-6	Golf cart storage	Golf cart wall surfacing		845	
S-HA7-7	Golf cart storage	Golf cart wall surfacing		845	
S-HA7-8	Golf cart storage	Lath plaster		846	
S-HA7-9	Golf cart storage	Lath plaster		846	
S-HA7-10	Golf cart storage	Lath plaster		846	
M-HA8-1	Locker room	Locker room carpet and adhesive		847	
T-HA8-2	Locker room	Duct surface covering		848	
T-HA8-3	Locker room	Duct surface covering		848	
T-HA8-4	Locker room	Duct surface covering		848	
M-HA9-1	Large garage	Garage top shingle grey		854	Photos 852-853 inside - no samples inside
M-HA9-2	Large garage	Garage bottom shingle brown		854	Photo 855 outside overview
M-HA9-3	Large garage	Garage tar paper		854	

notes:

No samples take from pole barn or steel garage (no suspected ACMs)

Pole barn photos -849, 850, 851

Steel garage photos-856, 857

No samples were taken from the attic of the building for safety concerns



## Appendix B

### *Licenses and Certification*

No. 5846

Asbestos Abatement

This is to certify that

Nute Bruce Bishop

has met the  
requirements of Chapter 33-15-13 of the North Dakota Air Pollution Control  
Rules for certification in the following asbestos abatement discipline(s):

Supervisor

Worker

☒ Inspector

Management Planner

Project Designer

Project Monitor

Exp: 1/4/2018

Asbestos Control Program



University of North Dakota  
4201 James Ray Drive Stop 8273  
Grand Forks, ND 58202-8273  
701-777-0384

Hereby certifies that

**Nute Bishop**

KLJ Engineering  
1463 I-94 Business Loop  
Dickinson, ND 58601

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

**January 4, 2017**

Course Location:  
Exam Date:  
Certificate No:  
Expiration Date:

Grand Forks, ND  
January 4, 2017  
AI-17004R-0104  
**January 4, 2018**

Environmental Training Institute





January 25, 2017

KLJ  
728 E Beaton Drive  
West Fargo, ND 58078

Ladies and Gentlemen:

Enclosed you will find an asbestos certification card issued by the North Dakota Department of Health for Jessica Aasand.

This card identifies the discipline for which the individual is certified. The State of North Dakota grants certification following proof of successful completion of an EPA or Department approved course. Individuals are allowed to perform only those duties in which they are certified and proof of certification must be available at the work site. Certification is for a period of one year from the date of completion of the last training course. Individuals who intend to continue performing asbestos work must be recertified prior to that time. To be recertified, an individual must have attended an EPA approved refresher course in the specific discipline for which they are applying for recertification within the previous 12-month period.

If you have any questions concerning the certification or certification process, please feel free to contact me at (701)328-5188.

Sincerely,



Justin Otto  
Environmental Scientist  
Asbestos Control Program

JO:csc  
Enc:

	<b>North Dakota Department of Health</b>	
	<b>Certificate</b>	
	of	No. <u>5874</u>
	<b>Asbestos Abatement</b>	
This is to certify that <u>Jessica L. Aasand</u> has met the requirements of Chapter 33-15-13 of the North Dakota Air Pollution Control Rules for certification in the following asbestos abatement discipline(s):		
	Supervisor	
	Worker	
	<input checked="" type="checkbox"/> Inspector	Exp: 1/4/2018
	Management Planner	
	Project Designer	
	Project Monitor	
	 Asbestos Control Program	



**University of North Dakota**  
4201 James Ray Drive Stop 8273  
Grand Forks, ND 58202-8273  
701-777-0384

Hereby certifies that

***Jessica Aasand***

*KLJ Engineering  
4585 Coleman St  
Bismarck, ND 58503*

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

**January 4, 2017**

Course Location: Grand Forks, ND  
Exam Date: January 4, 2017  
Certificate No: AI-17001R-0104  
Expiration Date: **January 4, 2018**

A handwritten signature in blue ink that reads 'Monica Ewald'.

Environmental Training Institute





January 25, 2017

Mr. Mark Anderson  
Kadrmass, Lee & Jackson (KLJ)  
4585 Coleman St  
Bismarck, ND 58503

Dear Mr. Anderson:

Enclosed is your firm's Asbestos Abatement Contractor License. This license is issued by the North Dakota Department of Health.

The license is valid until December 31, 2017, and authorizes your firm to perform asbestos abatement work in the State of North Dakota in accordance with Chapter 33-15-13 of the North Dakota Air Pollution Control Rules. You must ensure that any of your employees performing asbestos abatement work are certified by this Department in the disciplines in which they are performing the work.

In addition to an asbestos abatement contractor's license, your firm may also be required to have a North Dakota general contractor's license. This license can be obtained from the office of the North Dakota Secretary of State. If your firm does not have a general contractor's license, contact the Secretary of State at 701-328-2905 to obtain the license, if necessary, before any abatement work is done in North Dakota.

If you have any questions concerning the Asbestos Abatement Contractor License, feel free to contact me at 701-328-5188.

Sincerely,



Justin Otto  
Environmental Scientist  
Asbestos Control Program

JO:csc

Enc:

xc: Lorie Feldman, Secretary of State's Office





**North Dakota  
Department of Health**

**Asbestos Abatement  
Contractor License**

**This is to certify that KADRMAS, LEE & JACKSON, INC. 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, 2017**

**Certificate No. ND 453**

**Dale P. Patrick, Manager  
Asbestos Control Program**



United States Department of Commerce  
National Institute of Standards and Technology



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## Certificate of Accreditation to ISO/IEC 17025:2005

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NVLAP LAB CODE: 500053-0

**EMLab P&K, LLC**  
Arvada, CO

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

### **Asbestos Fiber Analysis**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

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2016-07-01 through 2017-06-30

*Effective Dates*



A handwritten signature in blue ink, reading "Dana S. Laman".

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*For the National Voluntary Laboratory Accreditation Program*



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**EMLab P&K, LLC**  
4955 Yarrow Street  
Arvada, CO 80002  
Mr. Dan Shelby  
Phone: 623-298-1015 Fax: 623-445-6217  
Email: [dshelby@emlabpk.com](mailto:dshelby@emlabpk.com)  
<http://www.emlabpk.com>

**ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 500053-0**

**Bulk Asbestos Analysis**

<u><b>Code</b></u>	<u><b>Description</b></u>
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

A handwritten signature in blue ink, reading "Dana S. Laman", is positioned above a horizontal line.

*For the National Voluntary Laboratory Accreditation Program*



## Appendix C

*Lab Results and  
Chain of Custody Documentation*





Report for:

**Mr. Nute Bishop**  
**Kadmas, Lee & Jackson, Inc.**  
PO Box 1157  
Bismarck, ND 58502

---

Regarding: Project: New Town Bypass-14214101; Edgewater Country Club Demolition  
EML ID: 1733291

Approved by:

Dates of Analysis:  
Asbestos PLM: 05-31-2017

Approved Signatory  
Noah Lazarte

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

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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: Mr. Nute Bishop  
 Re: New Town Bypass-14214101; Edgewater  
 Country Club Demolition

Date of Sampling: 05-18-2017  
 Date of Receipt: 05-26-2017  
 Date of Report: 06-01-2017

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

**Total Samples Submitted:** 50

**Total Samples Analyzed:** 50

**Total Samples with Layer Asbestos Content > 1%:** 4

**Location: M-HA1-1, White 2'x1' Ceiling Tile and Coating**

Lab ID-Version‡: 808889-1

Sample Layers	Asbestos Content
Tan Ceiling Tile	ND
Off-White Texture with Paint	ND
<b>Composite Non-Asbestos Content:</b>	85% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: M-HA1-2, White 6'x1' Ceiling Tile and Coating**

Lab ID-Version‡: 8088890-1

Sample Layers	Asbestos Content
Tan Ceiling Tile	ND
Off-White Texture with Paint	ND
<b>Composite Non-Asbestos Content:</b>	85% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: M-HA1-3, Green Carpet and Adhesive**

Lab ID-Version‡: 8088891-1

Sample Layers	Asbestos Content
Green Carpet	ND
Yellow Mastic	ND
<b>Composite Non-Asbestos Content:</b>	90% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: M-HA1-4, Blue Carpet and Adhesive**

Lab ID-Version‡: 8088892-1

Sample Layers	Asbestos Content
Blue Carpet	ND
Yellow Mastic	ND
<b>Composite Non-Asbestos Content:</b>	90% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

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‡ 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".

Client: Kadrmas, Lee & Jackson, Inc.  
C/O: Mr. Nute Bishop  
Re: New Town Bypass-14214101; Edgewater  
Country Club Demolition

Date of Sampling: 05-18-2017  
Date of Receipt: 05-26-2017  
Date of Report: 06-01-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: M-HA1-5, White Window Caulk**

Lab ID-Version‡: 8088893-1

Sample Layers	Asbestos Content
White Caulk	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: M-HA1-6, Tan Checked Carpet and Adhesive**

Lab ID-Version‡: 8088894-1

Sample Layers	Asbestos Content
Tan Carpet	ND
Yellow Mastic	ND
<b>Composite Non-Asbestos Content:</b>	90% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: M-HA1-7, Tan Checked Carpet and Adhesive**

Lab ID-Version‡: 8088895-1

Sample Layers	Asbestos Content
Tan Carpet	ND
Yellow Mastic	ND
<b>Composite Non-Asbestos Content:</b>	90% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: M-HA1-8, White Formica Counter Top and Adhesive**

Lab ID-Version‡: 8088896-1

Sample Layers	Asbestos Content
White Countertop	ND
Brown Mastic	ND
<b>Composite Non-Asbestos Content:</b>	75% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

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 C/O: Mr. Nute Bishop  
 Re: New Town Bypass-14214101; Edgewater  
 Country Club Demolition

Date of Sampling: 05-18-2017  
 Date of Receipt: 05-26-2017  
 Date of Report: 06-01-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: M-HA1-9, Pecan Formica Counter Top and Adhesive**

Lab ID-Version‡: 8088897-1

Sample Layers	Asbestos Content
Pink Countertop	ND
Brown Mastic	ND
<b>Composite Non-Asbestos Content:</b>	75% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: M-HA1-10, Peach Formica Counter Top and Adhesive**

Lab ID-Version‡: 8088898-1

Sample Layers	Asbestos Content
Pink Countertop	ND
Brown Mastic	ND
<b>Composite Non-Asbestos Content:</b>	75% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: M-HA2-1, Peach Formica Counter Top and Adhesive**

Lab ID-Version‡: 8088899-1

Sample Layers	Asbestos Content
Peach Countertop	ND
Brown Mastic	ND
<b>Composite Non-Asbestos Content:</b>	75% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: M-HA2-2, Tan 2'x2' Linoleum and Adhesive**

Lab ID-Version‡: 8088900-1

Sample Layers	Asbestos Content
Tan Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
<b>Composite Non-Asbestos Content:</b>	25% Cellulose 3% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

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Client: Kadrmas, Lee & Jackson, Inc.  
 C/O: Mr. Nute Bishop  
 Re: New Town Bypass-14214101; Edgewater  
 Country Club Demolition

Date of Sampling: 05-18-2017  
 Date of Receipt: 05-26-2017  
 Date of Report: 06-01-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: M-HA2-3, Granite Formica Counter Top and Adhesive**

Lab ID-Version‡: 8088901-1

Sample Layers	Asbestos Content
Gray Countertop	ND
Yellow Mastic	ND
<b>Composite Non-Asbestos Content:</b>	75% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: M-HA2-4, Vintage Linoleum and Adhesive**

Lab ID-Version‡: 8088902-1

Sample Layers	Asbestos Content
Orange Linoleum with Fibrous Backing	15% Chrysotile
Yellow Mastic	ND
<b>Composite Non-Asbestos Content:</b>	5% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: M-HA3-1, White Mosaic Linoleum and Adhesive**

Lab ID-Version‡: 8088903-1

Sample Layers	Asbestos Content
White Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
<b>Composite Non-Asbestos Content:</b>	25% Cellulose 3% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: S-HAS3-1, Drywall and Texture**

Lab ID-Version‡: 8088904-1

Sample Layers	Asbestos Content
Peach Drywall with Brown Paper and Paint	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose 3% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

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Client: Kadrmas, Lee & Jackson, Inc.  
 C/O: Mr. Nute Bishop  
 Re: New Town Bypass-14214101; Edgewater  
 Country Club Demolition

Date of Sampling: 05-18-2017  
 Date of Receipt: 05-26-2017  
 Date of Report: 06-01-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: S-HAS3-2, Drywall and Texture**

Lab ID-Version‡: 8088905-1

Sample Layers	Asbestos Content
Peach Drywall with Brown Paper and Paint	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose 3% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: S-HAS3-3, Drywall and Texture**

Lab ID-Version‡: 8088906-1

Sample Layers	Asbestos Content
Peach Drywall with Brown Paper and Paint	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose 3% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: M-HA4-1, Men's Bathroom Drop Ceiling**

Lab ID-Version‡: 8088907-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	50% Cellulose 7% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: M-HA4-2, Tile and Mastic**

Lab ID-Version‡: 8088908-1

Sample Layers	Asbestos Content
Brown Ceramic Tile	ND
Peach Grout	ND
Gray Mortar	ND
<b>Sample Composite Homogeneity:</b>	Poor

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Client: Kadrmas, Lee & Jackson, Inc.  
C/O: Mr. Nute Bishop  
Re: New Town Bypass-14214101; Edgewater  
Country Club Demolition

Date of Sampling: 05-18-2017  
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Date of Report: 06-01-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: MHA5-1, Men's Bathroom Drop Ceiling**

Lab ID-Version‡: 8088909-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
<b>Composite Non-Asbestos Content:</b>	50% Cellulose 7% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Good

**Location: MHA5-2, Women's Tile and Mastic**

Lab ID-Version‡: 8088910-1

Sample Layers	Asbestos Content
Tan Ceramic Tile	ND
Yellow Mastic	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: MHA5-3, Women's Bathroom Carpet**

Lab ID-Version‡: 8088911-1

Sample Layers	Asbestos Content
Tan Carpet	ND
Yellow Mastic	ND
<b>Composite Non-Asbestos Content:</b>	90% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: MHA5-4, Women's Bathroom Baseboard and Mastic**

Lab ID-Version‡: 8088912-1

Sample Layers	Asbestos Content
Brown Baseboard	ND
Yellow Mastic	ND
<b>Sample Composite Homogeneity:</b>	Moderate

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C/O: Mr. Nute Bishop  
Re: New Town Bypass-14214101; Edgewater  
Country Club Demolition

Date of Sampling: 05-18-2017  
Date of Receipt: 05-26-2017  
Date of Report: 06-01-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: S-HA6-1, Stucco Siding**

Lab ID-Version‡: 8088913-1

Sample Layers	Asbestos Content
Gray Cementitious Material	ND
White Stucco with Paint	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: S-HA6-2, Stucco Siding**

Lab ID-Version‡: 8088914-1

Sample Layers	Asbestos Content
Gray Stucco with Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: S-HA6-3, Stucco Siding**

Lab ID-Version‡: 8088915-1

Sample Layers	Asbestos Content
Gray Stucco with Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: S-HA6-4, Stucco Siding**

Lab ID-Version‡: 8088916-1

Sample Layers	Asbestos Content
Gray Stucco with Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

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Date of Sampling: 05-18-2017  
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 Date of Report: 06-01-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: S-HA6-5, Stucco Siding**

Lab ID-Version‡: 8088917-1

Sample Layers	Asbestos Content
Gray Stucco with Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: S-HA6-6, Stucco Siding**

Lab ID-Version‡: 8088918-1

Sample Layers	Asbestos Content
Gray Stucco with Paint	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: S-HA6-7, Stucco Siding**

Lab ID-Version‡: 8088919-1

Sample Layers	Asbestos Content
Gray Cementitious Material	ND
White Stucco with Paint	ND
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: M-HA6-8, Tar Paper Above Deck**

Lab ID-Version‡: 8088920-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Paint	ND
<b>Composite Non-Asbestos Content:</b>	50% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

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 Country Club Demolition

Date of Sampling: 05-18-2017  
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 Date of Report: 06-01-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: M-HA6-9, Asphalt Shingle**

Lab ID-Version‡: 8088921-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Tan Pebbles	ND
<b>Composite Non-Asbestos Content:</b>	20% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: S-HA7-1, Golf Cart Wall Surfacing**

Lab ID-Version‡: 8088922-1

Sample Layers	Asbestos Content
Tan Fibrous Material	ND
Off-White Plaster	ND
<b>Composite Non-Asbestos Content:</b>	35% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: S-HA7-2, Golf Cart Wall Surfacing**

Lab ID-Version‡: 8088923-1

Sample Layers	Asbestos Content
Tan Fibrous Material	ND
Off-White Plaster	ND
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: S-HA7-3, Golf Cart Wall Surfacing**

Lab ID-Version‡: 8088924-1

Sample Layers	Asbestos Content
Tan Fibrous Material	ND
Off-White Plaster	ND
<b>Composite Non-Asbestos Content:</b>	60% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

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Date of Sampling: 05-18-2017  
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 Date of Report: 06-01-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: S-HA7-4, Golf Cart Wall Surfacing**

Lab ID-Version‡: 8088925-1

Sample Layers	Asbestos Content
Tan Fibrous Material	ND
Off-White Plaster	ND
<b>Composite Non-Asbestos Content:</b>	35% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: S-HA7-5, Golf Cart Wall Surfacing**

Lab ID-Version‡: 8088926-1

Sample Layers	Asbestos Content
Tan Fibrous Material	ND
Off-White Plaster	ND
<b>Composite Non-Asbestos Content:</b>	35% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: S-HA7-6, Golf Cart Wall Surfacing**

Lab ID-Version‡: 8088927-1

Sample Layers	Asbestos Content
Tan Fibrous Material	ND
Off-White Plaster	ND
<b>Composite Non-Asbestos Content:</b>	50% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: S-HA7-7, Golf Cart Wall Surfacing**

Lab ID-Version‡: 8088928-1

Sample Layers	Asbestos Content
Tan Fibrous Material	ND
Off-White Plaster	ND
<b>Composite Non-Asbestos Content:</b>	50% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

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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".

Client: Kadrmas, Lee & Jackson, Inc.  
 C/O: Mr. Nute Bishop  
 Re: New Town Bypass-14214101; Edgewater  
 Country Club Demolition

Date of Sampling: 05-18-2017  
 Date of Receipt: 05-26-2017  
 Date of Report: 06-01-2017

**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: S-HA7-8, Lath Plaster**

Lab ID-Version‡: 8088929-1

Sample Layers	Asbestos Content
Off-White Plaster	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: S-HA7-9, Lath Plaster**

Lab ID-Version‡: 8088930-1

Sample Layers	Asbestos Content
Off-White Plaster	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: S-HA7-10, Lath Plaster**

Lab ID-Version‡: 8088931-1

Sample Layers	Asbestos Content
Off-White Plaster	ND
<b>Sample Composite Homogeneity:</b>	Good

**Location: M-HA8-1, Locker Room Carpet and Adhesive**

Lab ID-Version‡: 8088932-1

Sample Layers	Asbestos Content
Green Carpet	ND
Yellow Mastic	ND
<b>Composite Non-Asbestos Content:</b>	90% Synthetic Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

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**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: T-HA8-2, Duct Surface Covering**

Lab ID-Version‡: 8088933-1

Sample Layers	Asbestos Content
Off-White Wrap	70% Chrysotile
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

**Location: T-HA8-3, Duct Surface Covering**

Lab ID-Version‡: 8088934-1

Sample Layers	Asbestos Content
Off-White Wrap	70% Chrysotile
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

**Location: T-HA8-4, Duct Surface Covering**

Lab ID-Version‡: 8088935-1

Sample Layers	Asbestos Content
Off-White Wrap	70% Chrysotile
<b>Composite Non-Asbestos Content:</b>	10% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

**Location: M-HA9-1, Garage Top Shingle Grey**

Lab ID-Version‡: 8088936-1

Sample Layers	Asbestos Content
Black Roofing Shingle with White Pebbles	ND
<b>Composite Non-Asbestos Content:</b>	20% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Moderate

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**ASBESTOS PLM REPORT: EPA-600/M4-82-020 & EPA METHOD 600/R-93-116****Location: M-HA9-2, Garage Bottom Shingle Brown**

Lab ID-Version‡: 8088937-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Brown Pebbles	ND
<b>Composite Non-Asbestos Content:</b>	45% Cellulose
<b>Sample Composite Homogeneity:</b>	Moderate

**Location: M-HA9-3, Garage Tar Paper**

Lab ID-Version‡: 8088938-1

Sample Layers	Asbestos Content
Brown Tar Paper	ND
<b>Composite Non-Asbestos Content:</b>	80% Cellulose
<b>Sample Composite Homogeneity:</b>	Good

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[www.EMLabPK.com](http://www.EMLabPK.com)

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5. San Francisco, CA:

Shorline Ct. Ste 203, S. San Francisco, CA 94080 \* (866) 288-6653



## EMLab P&K

WEATHER		Fog	Rain	Snow	Wind	Clear
LEVEL	None	x	x	x	x	x
	Light					x
	Moderate					x
	Heavy					x

## REQUÊSTE

001733291

### CONTACT INFORMATION

Company: Kadmas, Lee & Jackson, Inc. (acct 19224)

Address: PO Box 1157, Bismarck, ND 58502

**Contact Nute Bishop**

Special Instructions: Please email results to [nuta.bishop@kljeng.com](mailto:nuta.bishop@kljeng.com) and [Jessica.Aasand@kljeng.com](mailto:Jessica.Aasand@kljeng.com)

Phone/Email: 701-483-1284/ nute.bishop@klfeng.com

## PROJECT INFORMATION

TURN AROUND TIME CODES - (FAT)

Project ID: New Town Bypass-14214101

**STD - Standard (DEFAULT)**

**Project Desc.: Edgewater Country Club Demolition**

**ND** - Next Business Day

Project

## Sampling

Zip Code: 58763

Date & Time: 5/18/2017 9:00-1:00

PO Number:

WH - Weekend/Holiday

Rushes received after 2pm or on weekends will be considered received the next business day. Please alert us in advance of weekend analysis needs.

Sample ID	Description	Sample Type (Below)	TAT (Above)	Volume/Area (as applicable)	NOTES (Time of day, Temp, RH, etc.)
M-HA1-1	White 2'x1' ceiling tile and coating	B	STD		
M-HA1-2	White 6'x1' ceiling tile and coating	B	STD		
M-HA1-3	Green carpet and adhesive	B	STD		
M-HA1-4	Blue carpet and adhesive	B	STD		
M-HA1-5	White window caulk	B	STD		
M-HA1-6	Tan checked carpet and adhesive	B	STD		
M-HA1-7	Tan checked carpet and adhesive	B	STD		
M-HA1-8	White formica counter top and adhesive	B	STD		
M-HA1-9	Pecan formica counter top and adhesive	B	STD		
M-HA1-10	Peach formica counter top and adhesive	B	STD		
M-HA2-1	Peach formica counter top and adhesive	B	STD		
M-HA2-2	Tan 2"x2" linoleum and adhesive	B	STD		
M-HA2-3	Granite formica counter top and adhesive	B	STD		
M-HA2-4	Vintage linoleum and adhesive	B	STD		
M-HA3-1	White mosaic linoleum and adhesive	B	STD		
S-HA3-1	Drywall and texture	B	STD		
S-HA3-2	Drywall and texture	B	STD		
S-HA3-3	Drywall and texture	B	STD		
M-HA4-1	Men's bathroom drop ceiling	B	STD		

Trap	Swab Bulk	Water, Bulk, Tap, Pool, Contact
Fungi - Spore Trap Analysis		
Spore Trap Analysis - Other particles		
Direct Microscopic Exam (Qualitative)		
Quantitative Spore Count Direct Exam		
1-Media Surface Fungi (Genus ID + Asp. spp.)		
2-Media Surface Fungi (Genus ID + Asp. spp.)		
3-Media Surface Fungi (Genus ID + Asp. spp.)		
Culturable Air Fungi (Genus ID + Asp. spp.)		
Gram Stain and Counts (Culturable Air and Surface Bacteria)		
Legionella culture		
Total Coliform, E.coli (Presence/Absence)		
Membrane Filtration (Please specify organism)		
MPN Bacteria (Please specify organism)		
Quantitray - Sewage Screen		
Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)		
Asbestos Analysis - PLM (EPA method 600/R-93-118)		
PCR (please specify test)		

