



**Building a Better Illinois**

## **Asbestos Inspection Report – Campus Boiler Replacement**

**CDB #822-010-127**

**NORTHERN ILLINOIS UNIVERSITY  
EAST HEATING PLANT (U1028)  
Wirtz Drive & Lucinda Ave., Dekalb, IL 60115  
WEST HEATING PLANT (U1110)  
Douglas and Stadium Drive, Dekalb, IL 60115**

State of Illinois

## **CAPITAL DEVELOPMENT BOARD**

**PREPARED FOR: Middough, Inc.  
700 Commerce Drive, Suite 200  
Oak Brook, IL 60523**

**PREPARED BY: United Analytical Services, Inc.  
3020 Woodcreek Drive, Suite F  
Downers Grove, IL 60515**

DPR License Expiration Date: November 30, 2021

IDPH Asbestos License Number: 100-02620

IDPH Asbestos License Expiration: May, 15, 2020

Signature: Michael Glenn

Date Signed: Sept. 30, 2019



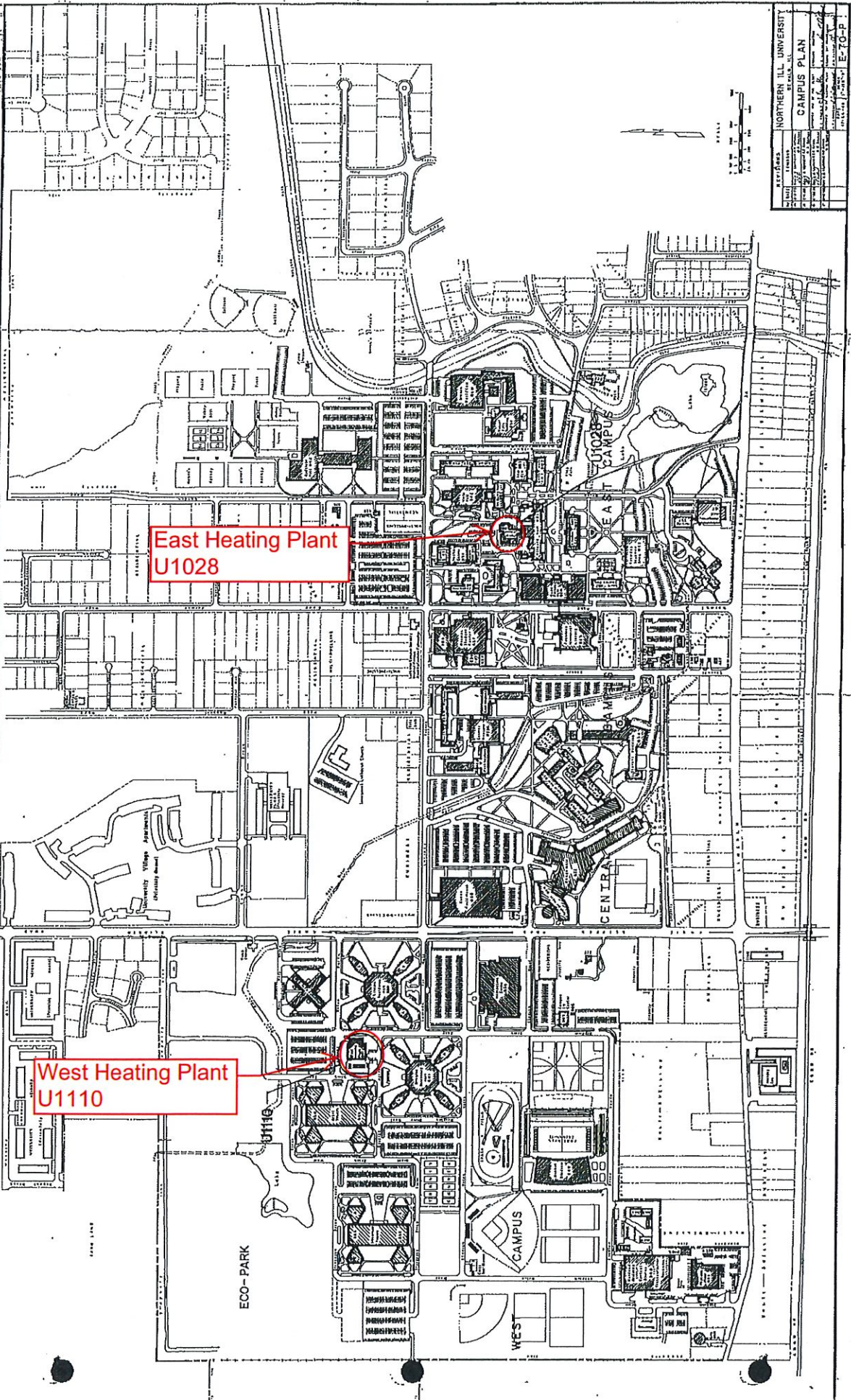
# ASBESTOS INSPECTION REPORT

NORTHERN ILLINOIS UNIVERSITY  
CAMPUS BOILER REPLACEMENT PROJECT  
BUILDINGS: U1028 AND U1110  
DEKALB, DEKALB COUNTY, ILLINOIS  
CDB PROJECT NO. 822-010-127

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**SECTION I**  
**SITE PLAN**

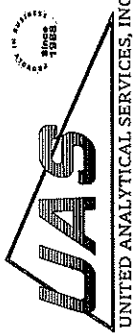


East Heating Plant  
U1028

West Heating Plant  
U1110

REVISIONS		NORTHERN ILL. UNIVERSITY CAMPUS PLAN	
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**SECTION II**  
**EAST HEATING PLANT**  
**U1028**



# United Analytical Services, Inc. Building Material Survey Table

**Client Name:** Middough, Inc.

**UAS #:** 1991379-01      **UAS SAM #:** S19379-01

**Building Location:** Northern Illinois University - East Campus Heating Plant  
 Wirtz Drive and Lucinda Avenue  
 Dekalb, IL 60115

**Surveyor:** Michael Glenn / Kyle Sebehar

**IDPH #:** 100-02620

**Page:** 1 of 4

**Analyze Until Positive:** Yes      No      All

**Date:** 09-25-2019

**Turn Around Time:** 3 Days

**Additional Comments:** CDB Project 822-010-127 - Inspection at East Plant limited to Boiler #5 and area surrounding Boiler #5 as directed by client.

Sample ID	Material	Location	Asbestos Containing		NESHAP Classification				Hazard Assessment		
			Yes	No	Friable	Non Friable Cat 1	Cat 2	Quantities		Damage	
MMA-1/3	Boiler Fire Brick	Interior of boiler		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	~350 sf	<1 %	NONE
TDA-1/3	Boiler Flue Insulation	Inside aluminum jacketing on flue duct and air intake duct		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				~500 sf	<1 %	NONE
TDB-1/3	Boiler Wall Insulation	Inside boiler jacketing		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				~700 sf	<1 %	NONE
TPA-1/3	Pipe Insulation Type 1	Brown painted Condensate Return Pipe	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				~15 lf	<1 %	NESHAP
TPB-1/3	Pipe Insulation Type 2	Small Brown pipe	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				~15 lf	<1 %	NESHAP
TPC-1/3	Pipe Insulation Type 3	Medium sized Brown pipes	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				~25 lf	<1 %	NESHAP
TJD-1/3	Pipe Fitting Insulation (Blue Pipe)	Small Blue pipes	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				~10 ea	<1 %	NESHAP
TPE-1/3	Pipe Insulation Type 4	Red painted Steam Header pipe	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				~10 lf	<1 %	NESHAP
TDC-1/3	Boiler Top Insulation	Under Metal Jacket Rounded top in center		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				~120 sf	<1 %	NONE

**ABBREVIATIONS:**

ACM: Asbestos Containing Material    NONE: No regulated quantities of asbestos detected, no response required    AHERA: Asbestos Hazard Emergency Response Act  
 NESHAP: National Emissions Standard for Hazardous Air Pollutants    OSHA: Occupational Safety and Health Administration  
 SF: Square Feet    LF: Lineal Feet    CF: Cubic Feet    ~: Quantities are Approximate    T/O: Throughout

**Relinquished By:** Michael Glenn      **Date/Time:** 9/26/2019

**Received By:** Karen Buehler      **Date/Time:** 9/26/2019

Client Name : Middough, Inc.

UAS # : 1991379-01

UAS SAM # : S19379-01

Date : 09/25/2019



Sample ID : MMA-1/3

ACM : No

Material :  
Boiler Fire Brick

Location :  
Interior of boiler

Comment :



Sample ID : TDA-1/3

ACM : No

Material :  
Boiler Flue Insulation

Location :  
Inside aluminum jacketing on flue duct and air intake duct

Comment :



Sample ID : TDB-1/3

ACM : No

Material :  
Boiler Wall Insulation

Location :  
Inside boiler jacketing

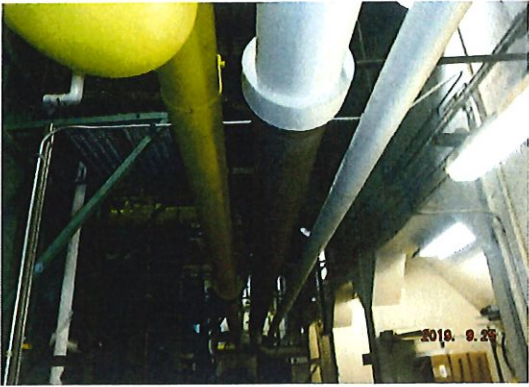
Comment :

Client Name : Middough, Inc.

UAS # : 1991379-01

UAS SAM # : S19379-01

Date : 09/25/2019



Sample ID : TPA-1/3

ACM : Yes

Material :  
Pipe Insulation Type 1

Location :  
Brown painted Condensate Return Pipe

Comment :



Sample ID : TPB-1/3

ACM : Yes

Material :  
Pipe Insulation Type 2

Location :  
Small Brown pipe

Comment :



Sample ID : TPC-1/3

ACM : Yes

Material :  
Pipe Insulation Type 3

Location :  
Medium sized Brown pipes

Comment :

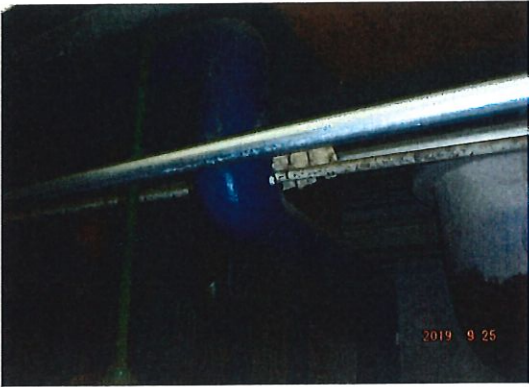


Client Name : Middough, Inc.

UAS # : 1991379-01

UAS SAM # : S19379-01

Date : 09/25/2019



Sample ID : TJD-1/3  
ACM : Yes  
Material :  
Pipe Fitting Insulation (Blue Pipe)  
Location :  
Small Blue pipes  
Comment :



Sample ID : TPE-1/3  
ACM : Yes  
Material :  
Pipe Insulation Type 4  
Location :  
Red painted Steam Header pipe  
Comment :



Sample ID : TDC-1/3  
ACM : No  
Material :  
Boiler Top Insulation  
Location :  
Under Metal Jacket Rounded top in center  
Comment :

**FORM 11**

**BULK SAMPLE LABORATORY ANALYSIS REPORT**

1. FACILITY: Northern Illinois University      2. CDB BUILDING # U1028  
 3. BUILDING: East Heating Plant      4. CLIENT (A/E) Middough, Inc  
 5. ADDRESS: Wirtz Dr & Lucinda, Dekalb, IL      6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) MMA - Boiler Fire Brick

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #5	Boiler #5	Boiler #5
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1028-MMA-1	U1028-MMA-2	U1028-MMA-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-01	S19379-02-02	S19379-02-03
13. Color?	Tan	Tan	Tan
14. Fibrous?	No	No	No
15. Layers?	No	No	No
16. Contain Asbestos?	ND	ND	ND
17. TYPE and % ASBESTOS			
Chrysotile			
Amosite			
Crocidolite			
Other			
Total Asbestos %			
18. OTHER MATERIAL %			
Fibrous Glass			
Cellulose			
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	100	100	100
19. Date Analyzed	September 26, 2019	September 26, 2019	September 26, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by: *Karen Buehler*      22. Date: 9-26-19

23. Laboratory Name: United Analytical Services, Inc.

**FORM 11**

**BULK SAMPLE LABORATORY ANALYSIS REPORT**

1. FACILITY: Northern Illinois University      2. CDB BUILDING # U1028  
 3. BUILDING: East Heating Plant      4. CLIENT (A/E) Middough, Inc  
 5. ADDRESS: Wirtz Dr & Lucinda, Dekalb, IL      6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) TDA - Boiler Flue Insulation

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #5	Boiler #5	Boiler #5
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1028-TDA-1	U1028-TDA-2	U1028-TDA-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-04	S19379-02-05	S19379-02-06
13. Color?	Yellow	Grey & White	White
14. Fibrous?	Yes	Yes	Yes
15. Layers?	No	No	No
16. Contain Asbestos?	ND	ND	ND
17. TYPE and % ASBESTOS			
Chrysotile			
Amosite			
Crocidolite			
Other			
Total Asbestos %			
18. OTHER MATERIAL %			
Fibrous Glass	99	98	99
Cellulose		Trace	Trace
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	1	2	1
19. Date Analyzed	September 26, 2019	September 26, 2019	September 26, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by: *Karen Buehler*      22. Date: 9-26-19

23. Laboratory Name: United Analytical Services, Inc.

**FORM 11**

**BULK SAMPLE LABORATORY ANALYSIS REPORT**

1. FACILITY: Northern Illinois University      2. CDB BUILDING # U1028  
 3. BUILDING: East Heating Plant      4. CLIENT (A/E) Middough, Inc  
 5. ADDRESS: Wirtz Dr & Lucinda, Dekalb, IL      6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) TDB - Boiler Wall Insulation

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #5	Boiler #5	Boiler #5
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1028-TDB-1	U1028-TDB-2	U1028-TDB-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-07	S19379-02-08	S19379-02-09
13. Color?	White	White	White
14. Fibrous?	Yes	Yes	Yes
15. Layers?	No	No	No
16. Contain Asbestos?	ND	ND	ND
17. TYPE and % ASBESTOS			
Chrysotile			
Amosite			
Crocidolite			
Other			
Total Asbestos %			
18. OTHER MATERIAL %			
Fibrous Glass	99	99	98
Cellulose	Trace		
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	1	1	2
19. Date Analyzed	September 26, 2019	September 26, 2019	September 26, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by: *Karen Buehler*      22. Date: 9-24-19

23. Laboratory Name: United Analytical Services, Inc.

**FORM 11**  
**BULK SAMPLE LABORATORY ANALYSIS REPORT**

1. FACILITY: Northern Illinois University      2. CDB BUILDING # U1028  
 3. BUILDING: East Heating Plant      4. CLIENT (A/E) Middough, Inc  
 5. ADDRESS: Wirtz Dr & Lucinda, Dekalb, IL      6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) TPA - Pipe Insulation Type 1 (CR)

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #5	Boiler #5	Boiler #5
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1028-TPA-1	U1028-TPA-2	U1028-TPA-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-10	S19379-02-11	S19379-02-12
13. Color?	Lt Grey	Lt Grey	Lt Grey
14. Fibrous?	Yes	Yes	Yes
15. Layers?	No	No	No
16. Contain Asbestos?	Yes	Yes	Yes
17. TYPE and % ASBESTOS			
Chrysotile	3	5	5
Amosite	20	20	25
Crocidolite			
Other			
Total Asbestos %	23	25	30
18. OTHER MATERIAL %			
Fibrous Glass			
Cellulose	5		
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	72	75	70
19. Date Analyzed	September 26, 2019	September 26, 2019	September 26, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by:       22. Date: 9-26-19

23. Laboratory Name: United Analytical Services, Inc.

FORM 11

BULK SAMPLE LABORATORY ANALYSIS REPORT

1. FACILITY: Northern Illinois University 2. CDB BUILDING # U1028  
 3. BUILDING: East Heating Plant 4. CLIENT (A/E) Middough, Inc  
 5. ADDRESS: Wirtz Dr & Lucinda, Dekalb, IL 6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) TPB - Pipe Insulation Type 2 (small brown)

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #5	Boiler #5	Boiler #5
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1028-TPB-1	U1028-TPB-2	U1028-TPB-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-13	S19379-02-14	S19379-02-15
13. Color?	Grey	Grey	Grey
14. Fibrous?	Yes	Yes	Yes
15. Layers?	No	No	No
16. Contain Asbestos?	Yes	Yes	Yes
17. TYPE and % ASBESTOS			
Chrysotile			
Amosite	30	25	25
Crocidolite			
Other			
Total Asbestos %	30	25	25
18. OTHER MATERIAL %			
Fibrous Glass			
Cellulose			
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	70	75	75
19. Date Analyzed	September 26, 2019	September 26, 2019	September 26, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by: *Karen Buehler* 22. Date: 9-26-19

23. Laboratory Name: United Analytical Services, Inc.

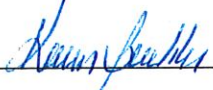
**FORM 11**  
**BULK SAMPLE LABORATORY ANALYSIS REPORT**

1. FACILITY: Northern Illinois University      2. CDB BUILDING # U1028  
 3. BUILDING: East Heating Plant      4. CLIENT (A/E) Middough, Inc  
 5. ADDRESS: Wirtz Dr & Lucinda, Dekalb, IL      6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) TPC - Pipe Insulation Type 3 (medium brown)

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #5	Boiler #5	Boiler #5
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1028-TPC-1	U1028-TPC-2	U1028-TPC-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-16	S19379-02-17	S19379-02-18
13. Color?	Grey	Grey	Grey
14. Fibrous?	Yes	Yes	Yes
15. Layers?	No	No	No
16. Contain Asbestos?	Yes	Yes	Yes
17. TYPE and % ASBESTOS			
Chrysotile			
Amosite	30	30	25
Crocidolite			
Other			
Total Asbestos %	30	30	25
18. OTHER MATERIAL %			
Fibrous Glass			
Cellulose	Trace		
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	70	70	75
19. Date Analyzed	September 26, 2019	September 26, 2019	September 26, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by:       22. Date: 9-26-19

23. Laboratory Name: United Analytical Services, Inc.

**FORM 11**  
**BULK SAMPLE LABORATORY ANALYSIS REPORT**

1. FACILITY: Northern Illinois University      2. CDB BUILDING # U1028  
 3. BUILDING: East Heating Plant      4. CLIENT (A/E) Middough, Inc  
 5. ADDRESS: Wirtz Dr & Lucinda, Dekalb, IL      6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) TJD - Pipe Fitting on Fibrous Glass Line

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #5	Boiler #5	Boiler #5
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1028-TJD-1	U1028-TJD-2	U1028-TJD-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-19	S19379-02-20	S19379-02-21
13. Color?	Grey	Grey	Grey
14. Fibrous?	Yes	Yes	Yes
15. Layers?	No	No	No
16. Contain Asbestos?	Yes	Yes	Yes
17. TYPE and % ASBESTOS			
Chrysotile	5	5	3
Amosite			
Crocidolite			
Other			
Total Asbestos %	5	5	3
18. OTHER MATERIAL %			
Fibrous Glass	20	30	20
Cellulose		2	
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	75	63	77
19. Date Analyzed	September 26, 2019	September 26, 2019	September 26, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by: *Karen Buehler*      22. Date: 9-26-19

23. Laboratory Name: United Analytical Services, Inc.



**FORM 11**

**BULK SAMPLE LABORATORY ANALYSIS REPORT**

1. FACILITY: Northern Illinois University      2. CDB BUILDING # U1028  
 3. BUILDING: East Heating Plant      4. CLIENT (A/E) Middough, Inc  
 5. ADDRESS: Wirtz Dr & Lucinda, Dekalb, IL      6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) TPE - Pipe Insulation Type 4 (steam, painted red)

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #5	Boiler #5	Boiler #5
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1028-TPE-1	U1028-TPE-2	U1028-TPE-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-22	S19379-02-23	S19379-02-24
13. Color?	Grey	Grey	Grey
14. Fibrous?	Yes	Yes	Yes
15. Layers?	No	No	No
16. Contain Asbestos?	Yes	Yes	Yes
17. TYPE and % ASBESTOS			
Chrysotile		80	3
Amosite	35	5	20
Crocidolite			
Other			
Total Asbestos %	35	85	23
18. OTHER MATERIAL %			
Fibrous Glass			
Cellulose	<1	<1	<1
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	64	14	76
19. Date Analyzed	September 26, 2019	September 26, 2019	September 26, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by: *Karen Buehler*      22. Date: 9-26-19

23. Laboratory Name: United Analytical Services, Inc.

**FORM 11**

**BULK SAMPLE LABORATORY ANALYSIS REPORT**

1. FACILITY: Northern Illinois University      2. CDB BUILDING # U1028  
 3. BUILDING: East Heating Plant      4. CLIENT (A/E) Middough, Inc  
 5. ADDRESS: Wirtz Dr & Lucinda, Dekalb, IL      6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) TDC - Boiler Top Insulation

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

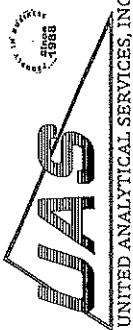
8. Location	Boiler #5	Boiler #5	Boiler #5
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1028-TDC-1	U1028-TDC-2	U1028-TDC-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-25	S19379-02-26	S19379-02-27
13. Color?	Brown	Brown	Brown
14. Fibrous?	Yes	Yes	Yes
15. Layers?	No	No	No
16. Contain Asbestos?	ND	ND	ND
17. TYPE and % ASBESTOS			
Chrysotile			
Amosite			
Crocidolite			
Other			
Total Asbestos %			
18. OTHER MATERIAL %			
Fibrous Glass	70	80	80
Cellulose		Trace	
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	30	20	20
19. Date Analyzed	September 26, 2019	September 26, 2019	September 26, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by: *Karen Buehler*      22. Date: 9-26-19

23. Laboratory Name: United Analytical Services, Inc.





# United Analytical Services, Inc. Building Material Survey Table

Client Name: Middough, Inc.

UAS #: 1991379-01

UAS SAM #: SI9377-01

Building Location: Northern Illinois University - East Campus Heating Plant

Surveyor: Michael Glenn / Kyle Sebehar

Wirtz Drive and Lucinda Avenue  
 Dekalb, IL 60115

IDPH #: 100-02620

Page: 1 of 1

Date: 09-25-2019

Analyze Until Positive: Yes  No  All

Turn Around Time: 3 Days

Additional Comments: CDB Project 822-010-127 - Inspection at East Plant limited to Boiler #5 and area surrounding Boiler #5 as directed by client.

Sample ID	Material	Location	Asbestos Containing		NESHAP Classification				Hazard Assessment	
			Yes	No	Friable	Non Friable		Quantities		Damage
						Cat 1	Cat 2			
MMA-1/3	Boiler Fire Brick	Interior of boiler					✓	~350 sf	<1 %	TBD
TDA-1/3	Boiler Flue Insulation	Inside aluminum jacketing on flue duct and air intake duct			✓			~500 sf	<1 %	TBD
TDB-1/3	Boiler Wall Insulation	Inside boiler jacketing			✓			~700 sf	<1 %	TBD
TPA-1/3	Pipe Insulation Type 1	Brown painted Condensate Return Pipe			✓			~15 lf	<1 %	TBD
TPB-1/3	Pipe Insulation Type 2	Small Brown pipe			✓			~15 lf	<1 %	TBD
TPC-1/3	Pipe Insulation Type 3	Medium sized Brown pipes			✓			~25 lf	<1 %	TBD
TJD-1/3	Pipe Fitting Insulation (Blue Pipe)	Small Blue pipes			✓			~10 ea	<1 %	TBD
TPE-1/3	Pipe Insulation Type 4	Red painted Steam Header pipe			✓			~10 lf	<1 %	TBD
TDC-1/3	Boiler Top Insulation	Under Metal Jacket Rounded top in center			✓			~120 sf	<1 %	TBD

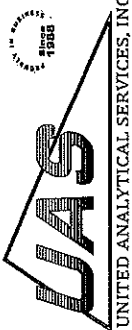
**ABBREVIATIONS:**

ACM: Asbestos Containing Material NONE: No regulated quantities of asbestos detected, no response required AHERA: Asbestos Hazard Emergency Response Act  
 NESHAP: National Emissions Standard for Hazardous Air Pollutants OSHA: Occupational Safety and Health Administration  
 SF: Square Feet LF: Lineal Feet CF: Cubic Feet ~: Quantities are Approximate T/O: Throughout

Relinquished By: Michael Glenn Date/Time: 9/26/19 9:35 AM

Received By: Kyle Sebehar Date/Time: 9-26-19

**SECTION III**  
**WEST HEATING PLANT**  
**U110**



# United Analytical Services, Inc. Building Material Survey Table

Client Name: Middough, Inc.

UAS #: 1991379-01 UAS SAM #: S19379-02

Building Location: Northern Illinois University - West Campus Heating Plant  
 Douglas Drive and Stadium Drive  
 DeKalb, IL 60115

Surveyor: Michael Glenn / Kyle Sebehar

IDPH #: 100-02620

Page: 1 of 4

Date: 09-25-2019

Analyze Until Positive: Yes  No  All

Turn Around Time: 3 Days

Additional Comments: CDB #822-010-127 Inspection limited to Boilers 3 and 4 and areas surrounding. NOTE: Boiler 4 was active and is assumed to be same construction as Boiler 3.

Sample ID	Material	Location	Asbestos Containing		NESHAP Classification				Hazard Assessment	
			Yes	No	Friable	Non Friable		Quantities		Damage
						Cat 1	Cat 2			
MMA-1/3	Boiler Fire Brick	Inside Boiler		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	~770sf	<1 %	NONE
TBA-1/3	Boiler Packing Insulation (walls)	Inside Boiler		<input checked="" type="checkbox"/>				~1,800 sf	<1 %	NONE
TPA-1/3	Pipe Insulation Type 1	18" Steam Header painted red	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			~60 lf	<1 %	NESHAP
TPB-1/3	Pipe Insulation Type 2	Low Pressure Steam painted orange	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			~45lf	<1 %	NESHAP
TJB-1	Pipe Fitting Insulation (LPS)	Low Pressure Steam painted orange	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			~2lf	<1 %	NESHAP
TBB-1/3	Boiler Insulation (Top)	Top round section		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			~230 sf	<1 %	NONE
TBC-1/3	Rope Gasket	Air intake gasket and Firebox door		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	~60 lf	2 %	NONE

**ABBREVIATIONS:**

ACM: Asbestos Containing Material NONE: No regulated quantities of asbestos detected, no response required AHERA: Asbestos Hazard Emergency Response Act  
 NESHAP: National Emissions Standard for Hazardous Air Pollutants OSHA: Occupational Safety and Health Administration  
 SF: Square Feet LF: Lineal Feet CF: Cubic Feet ~: Quantities are Approximate T/O: Throughout

Relinquished By: Michael Glenn

Date/Time: 9/26/2019

Received By: Karen Buehler

Date/Time: 9/26/2019

Client Name : Middough, Inc.

UAS # : 1991379-01

UAS SAM # : S19379-02

Date : 09/25/2019



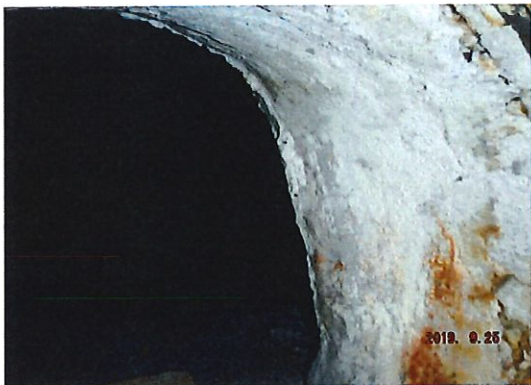
Sample ID : MMA-1/3

ACM : No

Material :  
Boiler Fire Brick

Location :  
Inside Boiler

Comment :



Sample ID : TBA-1/3

ACM : No

Material :  
Boiler Packing Insulation (walls)

Location :  
Inside Boiler

Comment :



Sample ID : TPA-1/3

ACM : Yes

Material :  
Pipe Insulation Type 1

Location :  
18" Steam Header painted red

Comment :

Client Name : Middough, Inc.

UAS # : 1991379-01

UAS SAM # : S19379-02

Date : 09/25/2019



Sample ID : TPB-1/3

ACM : Yes

Material :  
Pipe Insulation Type 2

Location :  
Low Pressure Steam painted orange

Comment :



Sample ID : TJB-1

ACM : Yes

Material :  
Pipe Fitting Insulation (LPS)

Location :  
Low Pressure Steam painted orange

Comment :



Sample ID : TBB-1/3

ACM : No

Material :  
Boiler Insulation (Top)

Location :  
Top round section

Comment :



Client Name : Middough, Inc.

UAS # : 1991379-01

UAS SAM # : S19379-02

Date : 09/25/2019

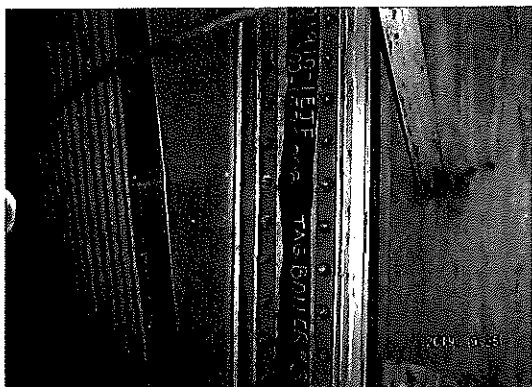
Sample ID : TBC-1/3

ACM : No

Material :  
Rope Gasket

Location :  
Air intake gasket and Firebox door

Comment :



**FORM 11**

**BULK SAMPLE LABORATORY ANALYSIS REPORT**

1. FACILITY: Northern Illinois University      2. CDB BUILDING # U1110  
 3. BUILDING: West Heating Plant      4. CLIENT (A/E) Middough, Inc.  
 5. ADDRESS: Douglas & Stadium Dr., Dekalb, IL      6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) MMA - Boiler Fire Brick

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #3	Boiler #3	Boiler #3
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1110-MMA-1	U1110-MMA-2	U1110-MMA-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-01	S19379-02-02	S19379-02-03
13. Color?	Tan	Tan	Tan
14. Fibrous?	No	No	No
15. Layers?	No	No	No
16. Contain Asbestos?	ND	ND	ND
17. TYPE and % ASBESTOS			
Chrysotile			
Amosite			
Crocidolite			
Other			
Total Asbestos %			
18. OTHER MATERIAL %			
Fibrous Glass			
Cellulose			
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	100	100	100
19. Date Analyzed	September 27, 2019	September 27, 2019	September 27, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by: *Karen Buehler*      22. Date: 9-27-19

23. Laboratory Name: United Analytical Services, Inc.

FORM 11

BULK SAMPLE LABORATORY ANALYSIS REPORT

1. FACILITY: Northern Illinois University 2. CDB BUILDING # U1110  
 3. BUILDING: West Heating Plant 4. CLIENT (A/E) Middough, Inc.  
 5. ADDRESS: Douglas & Stadium Dr., Dekalb, IL 6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) TBA - Boiler Packing Insulation (walls)

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #3	Boiler #3	Boiler #3
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1110-TBA-1	U1110-TBA-2	U1110-TBA-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-04	S19379-02-05	S19379-02-06
13. Color?	Grey & White	White	Grey
14. Fibrous?	No	Yes	No
15. Layers?	No	No	No
16. Contain Asbestos?	ND	ND	ND
17. TYPE and % ASBESTOS			
Chrysotile			
Amosite			
Crocidolite			
Other			
Total Asbestos %			
18. OTHER MATERIAL %			
Fibrous Glass		25	
Cellulose			
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	100	75	100
19. Date Analyzed	September 27, 2019	September 27, 2019	September 27, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by: *Karen Buehler* 22. Date: 9-27-19

23. Laboratory Name: United Analytical Services, Inc.

**FORM 11**

**BULK SAMPLE LABORATORY ANALYSIS REPORT**

1. FACILITY: Northern Illinois University      2. CDB BUILDING # U1110  
 3. BUILDING: West Heating Plant      4. CLIENT (A/E) Middough, Inc.  
 5. ADDRESS: Douglas & Stadium Dr., Dekalb, IL      6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) TPA - Pipe Insulation Type 1

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #3	Boiler #4	Boiler #4
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1110-TPA-1	U1110-TPA-2	U1110-TPA-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-07	S19379-02-08	S19379-02-09
13. Color?	Grey	Grey	Grey
14. Fibrous?	Yes	Yes	Yes
15. Layers?	No	No	No
16. Contain Asbestos?	Yes	Yes	Yes
17. TYPE and % ASBESTOS			
Chrysotile	40	20	10
Amosite	5		
Crocidolite			
Other			
Total Asbestos %	45	20	10
18. OTHER MATERIAL %			
Fibrous Glass		10	
Cellulose			5
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	55	70	85
19. Date Analyzed	September 27, 2019	September 27, 2019	September 27, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by: *Karen Buehler*      22. Date: 9-27-19

23. Laboratory Name: United Analytical Services, Inc.



**FORM 11**

**BULK SAMPLE LABORATORY ANALYSIS REPORT**

1. FACILITY: Northern Illinois University      2. CDB BUILDING # U1110  
 3. BUILDING: West Heating Plant      4. CLIENT (A/E) Middough, Inc.  
 5. ADDRESS: Douglas & Stadium Dr., Dekalb, IL      6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) TJB - Pipe Fitting Insulation Type 2 (LPS)

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #4		
9. Date Collected	September 25, 2019		
10. Sample No.	U1110-TJB-1		
11. Date Received	September 26, 2019		
12. Lab Sample No.	S19379-02-13		
13. Color?	Grey		
14. Fibrous?	Yes		
15. Layers?	No		
16. Contain Asbestos?	Yes		
17. TYPE and % ASBESTOS			
Chrysotile	35		
Amosite			
Crocidolite			
Other			
Total Asbestos %	35		
18. OTHER MATERIAL %			
Fibrous Glass			
Cellulose	3		
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	62		
19. Date Analyzed	September 27, 2019		
20. Analyzed by	Karen Buehler		

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by: *Karen Buehler*      22. Date: 9-27-19

23. Laboratory Name: United Analytical Services, Inc.

**FORM 11**

**BULK SAMPLE LABORATORY ANALYSIS REPORT**

1. FACILITY: Northern Illinois University      2. CDB BUILDING # U1110  
 3. BUILDING: West Heating Plant      4. CLIENT (A/E) Middough, Inc.  
 5. ADDRESS: Douglas & Stadium Dr., Dekalb, IL      6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) TBB - Boiler Insulation (top)

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #3	Boiler #4	Boiler #3
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1110-TBB-1	U1110-TBB-2	U1110-TBB-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-14	S19379-02-15	S19379-02-16
13. Color?	Brown & White	Brown & White	Brown & White
14. Fibrous?	Yes	Yes	Yes
15. Layers?	No	No	No
16. Contain Asbestos?	ND	ND	ND
17. TYPE and % ASBESTOS			
Chrysotile			
Amosite			
Crocidolite			
Other			
Total Asbestos %			
18. OTHER MATERIAL %			
Fibrous Glass	75	70	85
Cellulose	Trace		
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	25	30	15
19. Date Analyzed	September 27, 2019	September 27, 2019	September 27, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

21. Report approved by: *Karen Buehler*      22. Date: 9-27-19

23. Laboratory Name: United Analytical Services, Inc.

FORM 11

BULK SAMPLE LABORATORY ANALYSIS REPORT

1. FACILITY: Northern Illinois University 2. CDB BUILDING # U1110  
 3. BUILDING: West Heating Plant 4. CLIENT (A/E) Middough, Inc.  
 5. ADDRESS: Douglas & Stadium Dr., Dekalb, IL 6. PROJECT # 822-010-127  
 7. HOMOGENEOUS AREA (ONLY 1 PER FORM) TBC - Boiler Rope Gasket

(A/E COMPLETE ITEMS 1-10 & provide to laboratory)

8. Location	Boiler #3 Air Intake	Boiler #3 Air Intake	Boiler #3 Fire Box Door
9. Date Collected	September 25, 2019	September 25, 2019	September 25, 2019
10. Sample No.	U1110-TBC-1	U1110-TBC-2	U1110-TBC-3
11. Date Received	September 26, 2019	September 26, 2019	September 26, 2019
12. Lab Sample No.	S19379-02-17	S19379-02-18	S19379-02-19
13. Color?	White	White	Brown
14. Fibrous?	Yes	Yes	Yes
15. Layers?	No	No	No
16. Contain Asbestos?	ND	ND	ND
17. TYPE and % ASBESTOS			
Chrysotile			
Amosite			
Crocidolite			
Other			
Total Asbestos %			
18. OTHER MATERIAL %			
Fibrous Glass	99	99	85
Cellulose			
Synthetic Fibers			
Gypsum			
Calcite			
Quartz			
Perlite			
Vermiculite			
Others	1	1	15
19. Date Analyzed	September 27, 2019	September 27, 2019	September 27, 2019
20. Analyzed by	Karen Buehler	Karen Buehler	Karen Buehler

All samples analyzed by polarized light microscopy with dispersion staining.

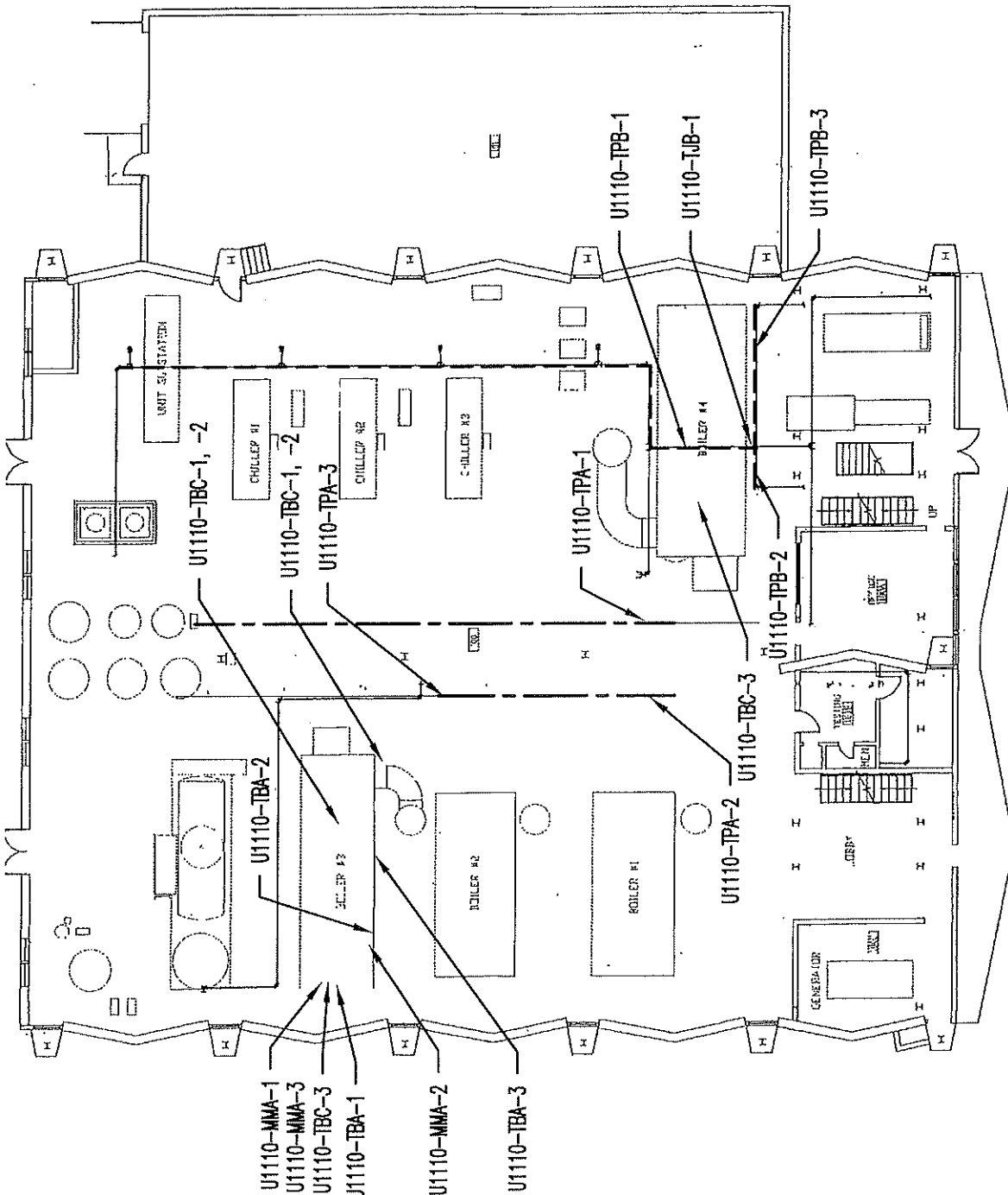
21. Report approved by: Karen Buehler 22. Date: 9-27-19

23. Laboratory Name: United Analytical Services, Inc.



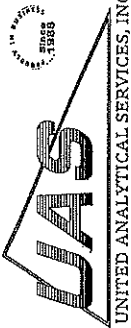
# LEGEND

- ACM PIPE INSULATION
- TPA - PIPE INSULATION TYPE 1 (STEAM HEADER PAINTED RED) APPROX. 60 LIN. FT.
- ACM PIPE & FITTING INSULATION TPB & TUB - PIPE INSULATION TYPE 2 APPROX. 45 LF/2 LF
- NON-ACM FIBERGLASS ADJOINING STEAM HEADER



NIU - WEST CAMPUS HEATING PLANT

NOT TO SCALE



# United Analytical Services, Inc. Building Material Survey Table

Client Name: Middough, Inc. UAS #: 1991379-01 UAS SAM #: 319379-01  
 Building Location: Northern Illinois University - West Campus Heating Plant Surveyor: Michael Glenn / Kyle Sebehar  
 Douglas Drive and Stadium Drive IDPH #: 100-02620  
 Date: 09-25-2019 Page: 1 of 1  
 Turn Around Time: 3 Days Analyze Until Positive: Yes  No  All

Additional Comments: CDB #822-010-127 Inspection limited to Boilers 3 and 4 and areas surrounding. NOTE: Boiler 4 was active and is assumed to be same construction as Boiler 3.

Sample ID	Material	Location	Asbestos Containing		NESHAP Classification				Hazard Assessment	
			Yes	No	Friable	Non Friable		Quantities		Damage
						Cat 1	Cat 2			
MMA-1/3	Boiler Fire Brick	Inside Boiler					<input checked="" type="checkbox"/>	~770sf	<1 %	TBD
TBA-1/3	Boiler Packing Insulation (walls)	Inside Boiler			<input checked="" type="checkbox"/>			~1,800 sf	<1 %	TBD
TPA-1/3	Pipe Insulation Type 1	18" Steam Header painted red			<input checked="" type="checkbox"/>			~60 lf	<1 %	TBD
TPB-1/3	Pipe Insulation Type 2	Low Pressure Steam painted orange			<input checked="" type="checkbox"/>			~45lf	<1 %	TBD
TJB-1	Pipe Fitting Insulation (LPS)	Low Pressure Steam painted orange			<input checked="" type="checkbox"/>			~2lf	<1 %	TBD
TBB-1/3	Boiler Insulation (Top)	Top round section			<input checked="" type="checkbox"/>			~230 sf	<1 %	TBD
TBC-1/3	Rope Gasket	Air intake gasket and Firebox door					<input checked="" type="checkbox"/>	~60 lf	2 %	TBD

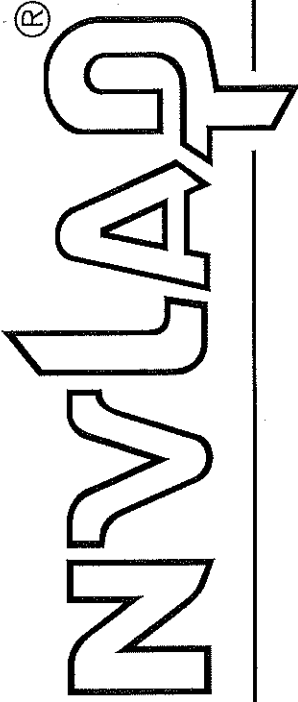
**ABBREVIATIONS:**

ACM: Asbestos Containing Material NONE: No regulated quantities of asbestos detected, no response required AHERA: Asbestos Hazard Emergency Response Act  
 NESHAP: National Emissions Standard for Hazardous Air Pollutants OSHA: Occupational Safety and Health Administration  
 SF: Square Feet LF: Lineal Feet CF: Cubic Feet ~: Quantities are Approximate T/O: Throughout

Relinquished By: Michael Glenn Date/Time: 9/26/19 9:35am Received By: Kyle Sebehar Date/Time: 9-26-19

**SECTION IV**  
**LICENSES AND ACCREDITATIONS**

United States Department of Commerce  
National Institute of Standards and Technology



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

---

NVLAP LAB CODE: 101732-0

**United Analytical Services, Inc.**  
Downers Grove, IL

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).

2019-07-01 through 2020-06-30

Effective Dates

A handwritten signature in black ink, which appears to read "John S. Daman".

For the National Voluntary Laboratory Accreditation Program



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

**United Analytical Services, Inc.**  
3020 Woodcreek Drive  
Suite F  
Downers Grove, IL 60515  
Dr. Kevin Aikman  
Phone: 630-691-8271 Fax: 630-691-1819  
Email: [kaikman@uas1.com](mailto:kaikman@uas1.com)  
<http://www.uas1.com>

**ASBESTOS FIBER ANALYSIS**

**NVLAP LAB CODE 101732-0**

**Bulk Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of 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

**Airborne Asbestos Analysis**

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

A handwritten signature in black ink, appearing to read "Kevin Aikman".

For the National Voluntary Laboratory Accreditation Program



525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • [www.dph.illinois.gov](http://www.dph.illinois.gov)

**MICHAEL A GLENN**  
 5731 ESSEX COURT  
 HANOVER PARK, IL 60133

2/20/2019


ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 02620

Enclosed is your Asbestos Professional License. Please note the expiration date on the card and in the image depicted below.

**COPY OF THE ASBESTOS PROFESSIONAL LICENSE**

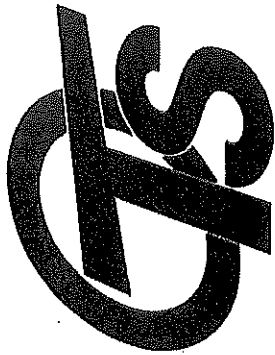
Front of License

Back of License

			<b>ASBESTOS          PROFESSIONAL          LICENSE</b>		<b>ENDORSEMENTS</b>	<b>TC EXPIRES</b>
ID NUMBER	ISSUED	EXPIRES	INSPECTOR		11/20/2019	
100 - 02620	2/20/2019	05/15/2020	PROJECT DESIGNER		1/7/2020	
<b>MICHAEL A GLENN</b> 5731 ESSEX COURT HANOVER PARK, IL 60133 Environmental Health			MANAGEMENT PLANNER		11/20/2019	
			PROJECT MANAGER		9/25/2019	
			AIR SAMPLING PROFESSIONAL			
			<b>Alteration of this license shall result in legal action</b> This license issued under authority of the State of Illinois Department of Public Health This license is valid only when accompanied by a valid training course certificate.			

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is: [dph.illinois.gov/topics-services/environmental-health-protection/asbestos](http://dph.illinois.gov/topics-services/environmental-health-protection/asbestos)  
 EMAIL Address: [dph.asbestos@illinois.gov](mailto:dph.asbestos@illinois.gov)



# OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900 ♦ www.otssafety.com

## Asbestos Project Designer Refresher

Occupational Training & Supply, Inc. certifies that  
**Michael Glenn**

has successfully completed the Asbestos Project Designer Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

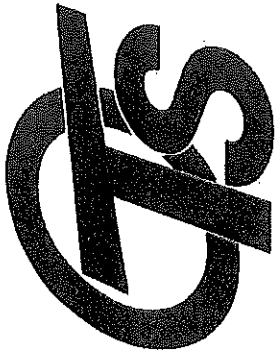
Course Date: 1/7/2019

Exam Date: 1/7/2019

Expiration Date: 1/7/2020

Certificate Number: PDR1901070029

Kathy DeSalvo, Director



# OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900 ♦ www.otssafety.com

## Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

**Michael Glenn**

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 11/20/2018

Exam Date: 11/20/2018

Expiration Date: 11/20/2019

Certificate Number: BIR1811203164

Kathy DeSalvo, Director