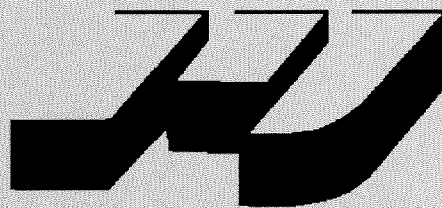


INDUSTRIAL HYGIENE
AND
AIR MONITORING REPORT
CATHOLIC DIOCESE
ST. JOHN'S SEMINARY
PARTIAL ASBESTOS ABATEMENT
BYRNE HALL
2415 TYLER STREET
LITTLE ROCK, ARKANSAS



December 14, 1995
thru
December 15, 1995

MORRIS AND JONES

architects and engineers

5005 Highway 161 / P. O. Box 242
Scott, Arkansas 72142
(501) 961-1003 / (501) 961-1239

MORRIS AND JONES

**architects, engineers
environmental consultants**



February 14, 1996

Mr. Jim Davis
Catholic Diocese of Arkansas
P. O. Box 7565
Little Rock, AR 72207-7565

RE: **PARTIAL ASBESTOS ABATEMENT
CATHOLIC DIOCESE OF ARKANSAS
ST. JOHN'S SEMINARY - BRYNE HALL
2415 TYLER STREET
LITTLE ROCK, ARKANSAS**

Dear Mr. Davis:

I am enclosing a copy of the Industrial Hygiene and Air Monitoring Report from the above referenced project.

Also enclosed is the project close-out documents from J. Graves Insulation Co. These have been reviewed and found to be in good order.

Please be advised that Federal law requires these documents to be retained for at least 30 years. We recommend keeping them in a safe yet accessible place.

Should you have any questions, please call.

Sincerely,

MORRIS AND JONES, ARCHITECTS/ENGINEERS

Peggy Williams, CIT
Construction Coordinator

INDUSTRIAL HYGIENE STATEMENT

PROJECT: PARTIAL ASBESTOS ABATEMENT
CATHOLIC DIOCESE OF ARKANSAS
ST. JOHN'S SEMINARY
BYRNE HALL
2415 TYLER STREET
LITTLE ROCK, ARKANSAS

Morris and Jones was retained by the Catholic Diocese of Arkansas to perform Industrial Hygiene and Air Monitoring Services during the partial asbestos abatement of the Byrne Hall, St. John's Seminary, 2415 Tyler Street, Little Rock, Arkansas.

Abatement activities executed by J. Graves Insulation Co., Inc. includes the removal of approximately 210 l/f of pipe insulation, 1 tank - 8' X 24', 1 boiler refractory mud, 1 - 4' X 2' flex joint, 160 sq. ft. of floor tile.

Daily air monitoring was conducted December 14 and 15, 1995. Monitoring and visual inspections were performed by Craig Tolleson.

Daily Air Samples were collected for Area (4), Perimeter (PR), Negative Air (NA), Field Blank (FB), and Personal (P).

Final clearance samples were collected and analyzed in accordance with NIOSH method 7400 using phase contrast microscopy (PCM). All sample results were below the recommended reoccupancy level of .01 F/CC.

STATE OF ARKANSAS
Asbestos Notice of Intent

Priority _____
County _____
CSW# _____
Pt. Source _____

X Original _____ Revised _____ Emergency
Type of Project: X Renovation _____ Demo _____ Cleanup

Work Schedule: Start Date End Date
 12-14-95 Prep 12-14-95 Prep
 12-14-95 Removal 12-15-95 Removal

Work Hours: 7:00 am pm to 5:30 am pm
Days of the week when work will occur (Please Circle)
 Su M T W Th F Sa

Contractor/Operator J. Graves Insulation Co., Inc.
Address 12300 Chicot Road, Mabelvale, AR 72103
Contact Person Terry Blaylock Phone (501) 568-2673

Structure Owner St. Johns Catholic Diocese
Address 2415 Tyler Street, Little Rock, AR 72207
Contact Person John Robinette Phone (501) 664-0340

Name of Structure St. Johns Catholic Center - Byrne Hall
Address 2415 Tyler Street, Little Rock, AR 72207
Dimensions 3,750 s/f 2 story Age 80 Years
Last Use of Structure In Use Now

Approximate amount and type of asbestos materials
210 l/f of pipe insulation - 1 tank - 8' x 24' - 1 boiler refractory and
1 4' x 2' flex joint - 160 s/f of floor tile
Describe Method used to Detect asbestos PLM Bulk

Air Monitor will be conducted by:
_____ Contractor X Consultant _____ Other

Waste Transporter J. Graves Insulation Company, Inc.
Address 12300 Chicot Road, Mabelvale, Arkansas 72103
Contact Person T. Aquil Phone (501) 568-2673

Disposal Location Brushy Island Landfill, Hwy 67 N. at Kiehl, Jacksonville, AR 72076

Describe in detail work practices used for asbestos abatement:
We will glove bag per manufacturers specifications. All ACM will be wet,
gloved bagged using Hepa glove bag vacuums on the bag, and then bags removed
and placed in 6-mil yellow bags. All pipe will be encapsulated and area wet
wiped. All ACM will be placed in an enclosed van for disposal to a permitted
landfill.

Verified by: TERRY BLAYLOCK

DATE: December 1, 1995
TOTAL P.02

PROJECT MANAGER'S DAILY REPORT

**PROJECT MANAGER'S DAILY CHECKLIST
ASBESTOS ABATEMENT**

CLIENT: CATHOLIC DIOCESE OF LITTLE ROCK

PROJECT: ST. JOHN'S CATHOLIC CENTER, BYRNE HALL

CONTRACTOR: J. GRAVES, INSULATION

INDUSTRIAL HYGIENIST: CRAIG TOLLESON

DATE: 12/14/95

DAY: THURSDAY

TIME IN: 8:30 AM **TIME OUT:** 11:30 AM

TIME IN: 12:00 PM **TIME OUT:** 5:30 PM

TIME IN: **TIME OUT:**

TIME IN: **TIME OUT:**

CONTRACTOR'S SUPERINTENDENT: JEFF HUBBARD

CONTRACTOR'S FOREMAN: CURT WERNER

CONTRACTOR'S CREW SIZE: 3

WORK HOURS: 7:00 AM - 5:30 PM

CONTRACTOR'S DAILY ACTIVITY: PREP, TANK INSULATION REMOVAL, BOILER REFRACTORY MUD REMOVAL, GLOVE BAGGING, PIPE INSULATION IN BOILER ROOM.

WORKER PROTECTION:

RESPIRATOR: NORTH ½ FACE

CLOTHING: PROTECTIVE CLOTHING, RUBBER BOOTS

GENERAL OBSERVATION OF CONTAINMENT:

WARNING SIGNS: YES ON DECON

DECON AREA: CLEAN

CONDITION OF POLY BARRIERS: INSPECTED AND REPAIRED

NEGATIVE AIR UNITS: 1

NUMBER IN USE: 1

MANOMETER READING/TIME: -.031 @ 1:15 PM, -.027 @ 3:15 PM, -.029 @ 4:10 PM

WEATHER CONDITIONS: CLOUDY AND MILD

NUMBER OF DAILY SAMPLES COLLECTED:

WORK AREA: 3

PERSONAL: 2

PERIMETER: 2

NEGATIVE AIR: 1

QUALITY CONTROL: 2

PRE-ABATEMENT: -

FINAL CLEARANCE: -

TEM/PCM

ADDITIONAL COMMENTS:

- * 8:30 AM - WHEN I ARRIVED ON SITE I MET WITH CURT WERNER OF J. GRAVES INSULATION. HE WILL BE THE JOB FOREMEN ON THIS PROJECT. HE AND I WALK THE JOB AND HE SHOWED ME WHERE HE WAS GOING TO SET UP CONTAINMENT AND WHERE HE IS GOING TO GLOVEBAG. THERE IS TWO WORKERS WITH J. GRAVES WORKING ON THE FIRST CONTAINMENT. THIS CONTAINMENT IF LOCATED AROUND THE STORAGE TANK ON THE NORTH WALL UNDER THE KITCHEN IN THE BASEMENT. THEY ARE INSTALLING 6 MIL POLY CRITICALS TO BUILD THE CONTAINMENT.
- * 9:25 AM - BRETT KIRKMAN OF J. GRAVES CAME ON SITE. HE IS THE SAFETY COORDINATOR. HE CHECKED ALL CERTIFICATIONS AND FOUND ALL TO BE IN PROPER ORDER. I ALSO CHECK PAPERWORK. ONE MAN STARTED PREP WHERE THE FLOOR TILE IS IN THE NORTH WEST CORNER OF THE BASEMENT.
- * 11:15 AM - JEFF HUBBARD IS ON SITE WITH THE MANOMETER AND THE PERSONAL PUMP. THE NEGATIVE AIR IS INSTALLED ON THE CONTAINMENT AROUND THE TANK. THE OTHER CONTAINMENT IS COMPLETE ALSO. THE CREW IS BACK FROM LUNCH. THE MANOMETER IS INSTALLED ON THE CONTAINMENT. THE NEGATIVE AIR MACHINE WAS TURNED ON AND IT READ -.031. THE WATER HOSES WERE RAN. THE MEN SUITED OUT IN PROTECTIVE CLOTHING AND ½ FACE RESPIRATOR.
- * 1:15 PM - I SET UP AREA SAMPLES. I PUT A PERSONAL SAMPLE ON DREW BOYLES. THE FIRST PERSONAL SAMPLE WILL BE THE STEL. THE CREW ENTER THE WORK AREA. THE TANK INSULATION IS WET WITH AMENDED WATER BEFORE BEING REMOVED. THERE IS CHICKEN WIRE ON THE TANK. THIS WILL BE PLACED IN A 55 GALLON LINED METAL DRUM FOR DISPOSAL. THE ACM INSULATION IS PLACED IN DOUBLE 6 MIL DISPOSAL BAGS AND SEALED WITH TAPE.
- * 3:30 PM - THE REMOVAL IS COMPLETE. THE TANK HAS BEEN ENCAPSULATED. I CONDUCTED A VISUAL ON THE AREA AND IT LOOKS GOOD. THE CREW SET UP TO GLOVE BAG PIPING INSULATION IN THE BOILER ROOM. THEY WILL ALSO REMOVE REFRACTORY MUD FROM THE BOILER. I COLLECTED SAMPLES FROM THE CONTAINMENT. I WILL RUN CLEARANCE IN THE MORNING ON THE CONTAINMENT. I SET UP AREA AND PERIMETER SAMPLES IN THE BOILER ROOM. THE REFRACTORY MUD IS HEPA VACUUMED AND BRUSHED OFF. IT COMES OFF ALMOST ENTIRELY WITH THE VACUUM.
- * 5:15 PM - HALF OF THE BOILER REFRACTORY MUD IS COMPLETE AND ALL GLOVE BAGS IN THE BOILER ROOM ARE COMPLETE. I COLLECT SAMPLES. THE CREW CLEANS UP FOR THE DAY. ALL BAGS ARE SEALED AND PROPER LABELS ARE AFFIXED TO ALL BAGS.

* 5:30 PM - THE CREW AND I LEAVE FOR THE DAY.

**PROJECT MANAGER'S DAILY CHECKLIST
ASBESTOS ABATEMENT**

CLIENT: CATHOLIC DIOCESE OF LITTLE ROCK

PROJECT: ST. JOHN'S CATHOLIC CENTER, BYRNE HALL

CONTRACTOR: J. GRAVES, INSULATION

INDUSTRIAL HYGIENIST: CRAIG TOLLESON

DATE: 12/15/95

DAY: FRIDAY

TIME IN: 7:20 AM **TIME OUT:** 11:30 PM

TIME IN: 12:00 PM **TIME OUT:** 7:30 PM

TIME IN: **TIME OUT:**

TIME IN: **TIME OUT:**

CONTRACTOR'S SUPERINTENDENT: JEFF HUBBARD

CONTRACTOR'S FOREMAN: CURT WERNER

CONTRACTOR'S CREW SIZE: 2

WORK HOURS: 7:00 AM - 7:30 PM

CONTRACTOR'S DAILY ACTIVITY: FLOOR TILE AND MASTIC, GLOVEBAG.

WORKER PROTECTION:

RESPIRATOR: NORTH ½ FACE

CLOTHING: PROTECTIVE CLOTHING

GENERAL OBSERVATION OF CONTAINMENT:

WARNING SIGNS: YES

DECON AREA: CENTRAL DECON

CONDITION OF POLY BARRIERS: INSPECTED AND REPAIRED

NEGATIVE AIR UNITS: 2

NUMBER IN USE: 2

MANOMETER READING/TIME: -.037 @ 7:50 AM

WEATHER CONDITIONS: CLOUDY AND MILD

NUMBER OF DAILY SAMPLES COLLECTED:

WORK AREA: 1

PERSONAL: 3

PERIMETER: 1

NEGATIVE AIR: -

QUALITY CONTROL: 2

PRE-ABATEMENT: -

FINAL CLEARANCE: 10

TEM/PCM

ADDITIONAL COMMENTS:

- * 7:20 AM - WHEN I ARRIVED ON SITE THERE IS ONLY TWO WORKERS FOR J. GRAVES. I SET UP FIVE FINAL CLEARANCE SAMPLES IN THE FIRST CONTAINMENT AROUND THE STORAGE TANK. CURT AND ROGER MADE REPAIRS TO POLY IN THE 2ND CONTAINMENT. THIS CONTAINMENT IS IN THE NORTH WEST SIDE OF THE BASEMENT. I SET UP AREA AND PERIMETER SAMPLES ON THIS AREA. CURT SUITED UP AND WENT INTO THIS AREA. ROGER WILL GLOVE BAG OUTSIDE OF THE CONTAINMENT IN THE BASEMENT AREA.
- * 8:50 AM - ALL FLOOR TILE IS UP. THE MASTIC IS VERY THICK. THERE COULD BE A LAYER OF TAR PAPER UNDER THE MASTIC. CURT IS USING A WET VACUUM TO GET EXCESS WATER OFF THE FLOOR. THIS WATER WAS USED TO KEEP DUST DOWN DURING REMOVAL. ROGER IS MAKING GOOD PROGRESS WITH GLOVEBAGGING. HE HAS REMOVED ABOUT 15 FEET OF INSULATION. HE IS USING A HEPA VACUUM TO CLEAN UP ANY ACM DEBRIS THAT IS ON THE FLOOR PRIOR TO REMOVAL.
- *10:00 AM - I COLLECT FINAL CLEARANCE SAMPLES. ROGER IS IN A SMALL CRAWL SPACE PICKING ACM PIPE INSULATION OFF THE GROUND. HE IS CONTINUING TO USE THE HEPA VACUUM TO REMOVE THE SMALL DEBRIS. CURT HAS REMOVED PIPE INSULATION IN THE CONTAINMENT AND IS STARTING ON MASTIC.
- *10:15 AM - I LEAVE JOB SITE TO GO ANALYZE THE FINAL CLEARANCE SAMPLES. I LEFT MY PAGER # WITH CURT IF HE NEEDS ME BEFORE I GET BACK. BRETT KIRKMAN IS ON SITE WHEN I WAS LEAVING. CURT HAD TWO MORE DRUMS DELIVERED.
- *11:30 PM - THE CREW BREAK'S FOR LUNCH. THE MASTIC IS VERY THICK. THE CREW IS LETTING THE REMOVAL AGENT SET ON MASTIC DURING LUNCH.
- *12:30 PM - THE CREW IS BACK FROM LUNCH AND START WORK ON THE MASTIC. ONE MAN FINISHED UP WORK IN THE BOILER ROOM.
- * 3:30 PM - THE CREW IS ALMOST COMPLETE. THERE IS SOME FELT PAPER GLUED DOWN THAT IS VERY DIFFICULT TO REMOVE. I WILL SET UP FINALS AND THE CREW WILL CLEAN UP THE FELT WITH RAZOR SCRAPERS LATER.
- * 4:00 PM - I SET UP FINALS CLEARANCE SAMPLE. THE FELT WAS WET WITH MASTIC REMOVER AFTER SAMPLES ARE COLLECTED. THE FELT SHOULD BE LOOSE ENOUGH TO SCRAPE UP.

* 6:30 PM - I COLLECTED SAMPLES. THE RAZOR SCRAPERS ARE ON SITE. THE CREW SCRAPED UP ALL FELT. THE FLOOR WAS WIPED WITH MASTIC REMOVER. THE FLOOR IS STAINED BLACK BUT LOOKS OKAY. I COLLECT PUMPS. THE CREW AND I LEAVE FOR THE DAY AT 7:30 PM.

PHASE CONTRAST MICROSCOPY SAMPLE RESULTS



an Analytica Group company

Analytica Solutions, Inc.
325 Interlocken Parkway
Suite 200
Broomfield, CO 80021
(303) 469-8868
(800) 873-8707
FAX: (303) 469-5254

RESULTS OF ASBESTOS SAMPLE ANALYSIS BY
PHASE CONTRAST MICROSCOPY (PCM)

Client: Morris & Jones

LGN: 206540

Project ID: Byrne Hall

Page: 1 of 2

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
I-121495-01PR	12/14/95	Decon
BH-121495-02NA	12/14/95	Neg air
I-121495-03A	12/14/95	S side containment
BH-121495-04A	12/14/95	S side containment
I-121495-05FB	12/14/95	BLANK Field blank

Results of PCM Analysis:

<u>Sample Number</u>	<u>Air Volume</u> <u>Liters</u>	<u>Particulate</u> <u>Loading</u>	<u>Fiber</u> <u>Density</u>	<u>Sample</u> <u>Fiber/Field</u>	<u>Blank</u> <u>Fiber/Field</u>	<u>Fibers/cc</u>
BH-121495-01PR	330.0	Moderate	35.7	28.0/100	1.0/100	0.040
I-121495-02NA	800.0	Light	12.7	10.0/100	1.0/100	<0.006
I-121495-03A	300.0			Void (Loose particulate)		
I-121495-04A	525.0	Moderate	175.8	138.0/100	1.0/100	0.128
BH-121495-05FB		Very Light	1.3	1.0/100		

Analyst:

Mary Riedmiller

Date: 12/26/95



an Analytica Group company

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RESULTS OF ASBESTOS SAMPLE ANALYSIS BY
PHASE CONTRAST MICROSCOPY (PCM)

Client: Morris & Jones

LGN: 206540

Project ID: Byrne Hall

Page: 2 of 2

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
BH-121495-06FB	12/14/95	BLANK Field blank
BH-121495-07PR	12/14/95	Boiler room, outside
BH-121495-08A	12/14/95	Boiler room, inside
BH-121495-01P	12/14/95	Drew Boyles
BH-121495-02P	12/14/95	Drew Boyles

Results of PCM Analysis:

<u>Sample Number</u>	<u>Air Volume</u> <u>Liters</u>	<u>Particulate</u> <u>Loading</u>	<u>Fiber</u> <u>Density</u>	<u>Sample</u> <u>Fiber/Field</u>	<u>Blank</u> <u>Fiber/Field</u>	<u>Fibers/cc</u>
BH-121495-06FB		Very Light	1.3	1.0/100		
BH-121495-07PR	375.0	Light	29.9	23.5/100	1.0/100	0.029
BH-121495-08A	375.0	Light	40.8	32.0/100	1.0/100	0.041
BH-121495-01P	60.0	Moderate	84.1	66.0/100	1.0/100	0.531
BH-121495-02P	180.0	Very Light	1.3	1.0/100	1.0/100	<0.027

Analyst: Mary Riedmiller
Mary Riedmiller

Date: 12/26/95

P.O. Box 3216 * 914 Barber Street * Little Rock, Arkansas 72203 * (501) 374-3001 374-3001

Activity: Paper based Review

Address:

[illegible]

Laboratory Instructions:
☒ PCM ☐ TEM ☐ PLM
 TURNAROUND: ☐ IMM ☒ 24 HR ☐ STANDARD
 FAX RESULTS TO: (501) 374-2970 ATTN: Peggy

Date _____

ed) AICITW

Print Copy - Office

ANALYTICA SOLUTIONS

325 Interlocken Parkway
Suite #200
Broomfield, Colorado 80021

PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE ANALYSIS PROCEDURES

Analytica Solutions analyzes mixed cellulose ester membrane filters according to the NIOSH 7400 Method (Revision 3). Details of the method can be found in the NIOSH Manual of Analytical Methods. The quantitative limit of Method 7400 is 10 fibers in 100 fields counted, the minimum number of fibers needed to achieve statistical reliability. The 7400 Method limits blanks to a maximum of 7 fibers in 100 fields.

NIKON ALPHAPHOT II phase contrast microscopes are used in conjunction with Swift Petrographic Point Counters for fiber counting. Microscopes are calibrated weekly with the NSE/NPL test slide. Unused portions of samples are archived for three years.

An example of the equation used for the calculation of air fibers, using 25 mm air filters is as follows:

$$\frac{((S) \text{ Fibers/Fields} - (B) \text{ Fibers/Fields}) \div (B) \text{ Fields}}{0.00785} = \text{Fibers/mm}^2$$

$$\frac{\text{Fibers/mm}^2 \times 0.385}{\text{Total Volume (L)}} = \text{Fibers/cc}$$

(S) = Sample (B) = Blank (L) = Liters

Where 385 square millimeters is the effective area of the 25 mm filter, 0.00785 square millimeters is the area of the Walton-Beckett graticule used in fiber counting, and the volume in liters is provided by the client on the chain of custody. Analytica does not calculate a time weighted average (TWA).

Analytica uses and reports the following particulate loading criteria:

very light	= less than 1% particulate loading
light	= 1% to 5% particulate loading
moderate	= 6% to 25% particulate loading
heavy	= 26% to 49% particulate loading
overloaded	= greater than 50% particulate loading

Analytica Solutions participates in the AIHA Proficiency Analytical Testing program (PAT) for asbestos fiber, laboratory PAT code number is 10790. We maintain an in-house quality control program where a minimum 10% of all submitted samples are reanalyzed. The results of the two analyses are compared utilizing the NIOSH Test of Reliability to ensure the statistical reliability of the counting procedure. This data is stored in our Quality Control tracking system.

Analytica participates in three quarterly round robin QA/QC programs with other laboratories throughout the United States. An inter-laboratory relative standard deviation (coefficient of variation) of 0.37 has been calculated from these programs. A series of replicate samples are routinely analyzed as a part of the lab's QC program. An overall intra-laboratory relative standard deviation (coefficient of variation) of 0.26 has been calculated from this program. Results of all QA/QC programs are available at the laboratory for inspection.



an Analytica Group company

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(800) 873-8707
FAX: (303) 469-5254

**RESULTS OF ASBESTOS SAMPLE ANALYSIS BY
PHASE CONTRAST MICROSCOPY (PCM)**

Client: Morris & Jones

LGN: 206626

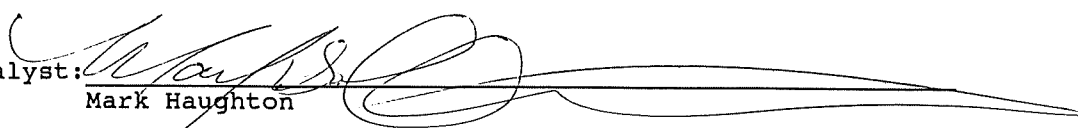
Project ID: St. John's Center, Byrne Hall

Page: 1 of 3

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
I-121595-09FC	12/15/95	AREA S.E. corner, tank containment
BH-121595-10FC	12/15/95	AREA N.E. corner, tank containment
I-121595-11FC	12/15/95	AREA S. wall middle, tank containment
BH-121595-12FC	12/15/95	AREA S.W. corner, tank containment
I-121595-13FC	12/15/95	AREA N.W. corner, tank containment

Results of PCM Analysis:

<u>Sample Number</u>	<u>Air Volume Liters</u>	<u>Particulate Loading</u>	<u>Fiber Density</u>	<u>Sample Fiber/Field</u>	<u>Blank Fiber/Field</u>	<u>Fibers/cc</u>
BH-121595-09FC	1800.0	Light	5.1	4.0/100	1.0/100	<0.003
I-121595-10FC	1800.0	Light	3.8	3.0/100	1.0/100	<0.003
I-121595-11FC	1800.0	Very Light	0.0	0.0/100	1.0/100	<0.003
BH-121595-12FC	1800.0	Light	5.1	4.0/100	1.0/100	<0.003
BH-121595-13FC	1800.0	Light	3.8	3.0/100	1.0/100	<0.003

Analyst: 
Mark Haughton

Date: 02/02/96



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PHASE CONTRAST MICROSCOPY (PCM)**

Client: Morris & Jones

LGN: 206626

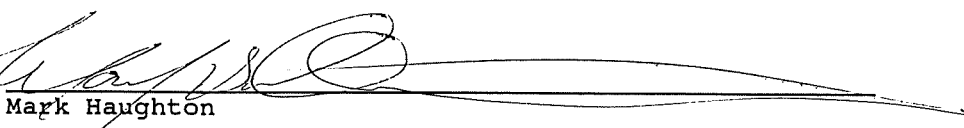
Project ID: St. John's Center, Byrne Hall

Page: 2 of 3

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
I-121595-14PR	12/15/95	AREA Outside containment N. end, floor tile containment
BH-121595-15A	12/15/95	AREA N.W. containment, floor tile containment
I-121595-17FB	12/15/95	BLANK Blank
BH-121595-18FB	12/15/95	BLANK Blank
I-121595-03P	12/15/95	PERSONAL Curt Werner

Results of PCM Analysis:

<u>Sample Number</u>	<u>Air Volume Liters</u>	<u>Particulate Loading</u>	<u>Fiber Density</u>	<u>Sample Fiber/Field</u>	<u>Blank Fiber/Field</u>	<u>Fibers/cc</u>
BH-121595-14PR	2350.0	Light	1.9	1.5/100	1.0/100	<0.002
I-121595-15A	2350.0	Light	3.2	2.5/100	0.0/100	<0.002
I-121595-17FB		Very Light	1.3	1.0/100		
I-121595-18FB		Very Light	1.3	1.0/100		
BH-121595-03P	60.0	Very Light	0.0	0.0/100	1.0/100	<0.082

Analyst: 
Mark Haughton

Date: 02/02/96



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**RESULTS OF ASBESTOS SAMPLE ANALYSIS BY
PHASE CONTRAST MICROSCOPY (PCM)**

Client: Morris & Jones

LGN: 206626

Project ID: St. John's Center, Byrne Hall

Page: 3 of 3

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
H-121595-04P	12/15/95	PERSONAL Curt Werner
BH-121595-05P	12/15/95	PERSONAL Curt Werner

Results of PCM Analysis:

<u>Sample Number</u>	<u>Air Volume Liters</u>	<u>Particulate Loading</u>	<u>Fiber Density</u>	<u>Sample Fiber/Field</u>	<u>Blank Fiber/Field</u>	<u>Fibers/cc</u>
BH-121595-04P	300.0	Light	2.5	2.0/100	1.0/100	<0.016
H-121595-05P	660.0	Very Light	0.0	0.0/100	1.0/100	<0.007

Analyst:

Mark Haughton

Date: 02/02/96



MORRIS AND JONES, INC.

P.O. Box 3216 * 914 Barber Street * Little Rock, Arkansas 72203 * (501) 374-3001 374-3001

Client: Colin Dineen at Sixth Tech Date: 12-15-95 Relinquished to Laboratory

Project: Bt. Johns Center Bryan Hall Respiratory Protection 1/2 Face Name: Analytic

Contractor: A. Traver Cassette: 25mm ✓ 37mm Address: _____

Collected By: Craig Tolleson Containment Location: Back Containment

Calibrated By: Craig Tolleson Floor Tile Containment N.W. side Building

Method: Rotometer Activity: Final cleanup, Floor Tile & Mute Telephone: _____

Field Sample Number	Location	Pump	Start Time	Stop Time	Total Min	Flow Rate	Total Volume	Fibers/Field	Det. Limit	Fiber Count	Comments
BH-121595 - 09FC	S. E. Corner		7:30	10:00	150	12.0	1800	✓	.003		7mb Contain
10FC	N.E. Corner		7:30	10:00	150	12.0	1800	✓	.003		
11FC	S. wall Middle		7:30	10:00	150	12.0	1800	✓	.003		
12FC	S.W. Corner		7:30	10:00	150	12.0	1800	✓	.003		
13FC	N.W. Corner		7:30	10:00	150	12.0	1800	✓	.003		✓
BH-121595 - 14PR	outside Containment N.W. end		8:10	4:00	470	5.0	2350	✓	.002		Floor Tile
15A	N.W. Containment		8:10	4:00	470	5.0	2350	✓	.002		
17FB	BLANK							✓			
13FB	BLANK							✓			
								✓			
								✓			
								✓			
								✓			
								✓			
BH-121595 - 63P	East Werner		8:00	8:30	30	2.0	60	✓	.082		
04P	East Werner		8:30	11:00	150	2.0	300	✓	.016		
05P	East Werner		1:00	4:00	180	2.0	660	✓	.007		

Relinquished By: Craig Tolleson Date: 12/15 Received for laboratory by: Juan Carlos

(Printed) Craig Tolleson Time ~ (Printed) _____

Laboratory Instructions: ☒ PCM ☐ TEM ☐ PLM

TURNAROUND: ☐ IMM ☒ 24 HR ☐ STANDARD

FAX RESULTS TO: (501) 374-2970 ATTN: Peggy

MEMO TO THE FILE:

PLEASE NOTE THAT THE OMISSION OF SAMPLE BH-121595-16 IS AN ERROR IN NUMBERING OF THE SAMPLES. PLEASE DISREGARD THIS NUMBER.



an Analytica Group company

Analytica Solutions, Inc.
325 Interlocken Parkway
Suite 200
Broomfield, CO 80021
(303) 469-8868
(800) 873-8707
FAX: (303) 469-5254

**RESULTS OF ASBESTOS SAMPLE ANALYSIS BY
PHASE CONTRAST MICROSCOPY (PCM)**

Client: Morris & Jones

LGN: 206628

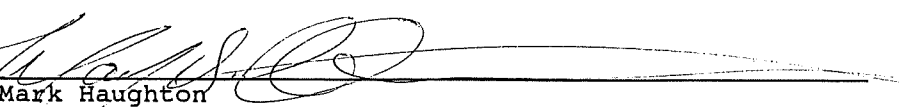
Project ID: St. John's Center Byrne Hall

Page: 1 of 1

<u>Sample Number</u>	<u>Sample Date</u>	<u>Description</u>
BH-121595-19FC	12/15/95	N.W. Corner
BH-121595-20FC	12/15/95	W. Wall
BH-121595-21FC	12/15/95	S. Wall
BH-121595-22FC	12/15/95	N. Wall
BH-121595-23FC	12/15/95	S. Wall

Results of PCM Analysis:

<u>Sample Number</u>	<u>Air Volume</u> <u>Liters</u>	<u>Particulate</u> <u>Loading</u>	<u>Fiber</u> <u>Density</u>	<u>Sample</u> <u>Fiber/Field</u>	<u>Blank</u> <u>Fiber/Field</u>	<u>Fibers/cc</u>
BH-121595-19FC	1800.0	Very Light	2.5	2.0/100	0.0/100	<0.003
BH-121595-20FC	1800.0	Very Light	1.3	1.0/100	0.0/100	<0.003
BH-121595-21FC	1800.0	Light	1.3	1.0/100	0.0/100	<0.003
BH-121595-22FC	1800.0	Light	1.9	1.5/100	0.0/100	<0.003
BH-121595-23FC	1800.0	Light	6.4	5.0/100	0.0/100	<0.003

Analyst: 
Mark Haughton

Date: 02/02/96



5005 Hwy. 161 / P.O. Box 242 • Scott, AR 72142 • (501) 961-1003 • FAX: (501) 961-1239

Client: Catholic Diocese of Little Rock
Project: St. John's Center, Beyond Hall
Contractor: J. Brown, Inc.
Collected By: Crissy Tolleson
Calibrated By: Crissy Tolleson
Method: Reinforced

Date: 12-15-95

Project: St. Jude's Center, Bryans Hall

Respiratory Protection: 1/2 Face

Contractor: J. Jones and

Cassette: 25mm  37mm

Collected By: Gray Teller

Containment Location: Belt Run

Calibrated By: Roy Feller

Herby Contract

Method: Reformed

Activity: Find Clues!

Telephone:

Field Sample Number

Location

Pump

Start Time

Stop

Total:

Flow

Volume	Total
100	100
200	200
300	300
400	400
500	500
600	600
700	700
800	800
900	900
1000	1000

Fibers/
Field

Det. Limit

Fiber Count

Comm

ments

BH-121595-197c	N.W. Corner
----------------	-------------

20Fc	W. wall
------	---------

21Fc	S. Wald
------	---------

22Fc	N. wall
------	---------

23FC

Relinquished By: (Signature)

Date _____

Received for laboratory by:

Date _____

Laboratory Instructions:


(Printed)

12/15

☒ PCM ☐ TEM

(Printed)

Time

TURNAROUND: ☐ IMMEDIATE

Craig Tolleson	1
----------------	---

Yellow Copy - Contractor

Pink Copy - Office

CERTIFICATIONS

Asbestos

CERTIFICATE OF ACHIEVEMENT

Awarded to

CRAIG TOLLESON

In accordance with EPA NESHAP Compliance and EPA TSCA
Title II accreditation standards for successful completion of the

Asbestos Supervisor/Contractor Refresher Training Course

431-59-6348

Certificate Number

Examination Date

DECEMBER 8, 1995

Course Date

DECEMBER 8, 1996

Expiration Date

Dhyllis Moore

Environmental Technologies

P. O. Box 21243

Little Rock, AR 72221

(501) 580-4284



Asbestos

CERTIFICATE OF ACHIEVEMENT

Awarded to

CRAIG TOLLESON

In accordance with EPA NESHAP Compliance and EPA TSCA
Title II accreditation standards for successful completion of the

Asbestos Supervisor/Contractor Refresher Training Course

748

Certificate Number

Examination Date

December 8, 1994

Course Date

December 8, 1995

Expiration Date

Phyllis Moore

Environmental Technologies
P. O. Box 21243
Little Rock, AR 72221
(501) 580-4284



Certificate of Achievement

Awarded to CRAIG TOLLESON

in recognition of the successful completion of

AHERA Accredited

Asbestos Supervisor/Contractor
Training Refresher Course

600

Certificate Number

December 7, 1994

Expiration Date

December 7, 1993

Course Date

Thalia Moore
Environmental Technologies
Little Rock, Arkansas

Certificate of Achievement

Awarded to CRAIG TOLLESON

in recognition of the successful completion of

AHERA Accredited

Asbestos Supervisor/Contractor Training Refresher Course

S-411
Certificate Number

December 4, 1993
Expiration Date

December 4, 1992
Course Date

Shelvia Moore
Environmental Technologies
Little Rock, Arkansas

Certificate of Achievement

Awarded To

CRAIG TOLLESON

in recognition of the successful completion of

AHERA Accredited

Asbestos Supervisor Training Program and Examination

S-275

Certificate Number

December 10-13, 1991

Course Date

December 13, 1992

Expiration Date

December 13, 1991

Exam Date


Rhonda Moore
Environmental Technologies
Little Rock, Arkansas

Professional Asbestos Training Service Certificate of Completion

CRAIG TOLLISON

Has Successfully Completed Training In

ASBESTOS ABATEMENT WORKER REFRESHER COURSE (AILEBA)

Certificate Number: AR-1847-R-91

Date of Training: JULY 5, 1991

Expiration Date: JULY 31, 1992

Course Director

Harold A. Beck

Professional Asbestos Training Service
P.O. Box 190026
Little Rock, AR 72219

GEBCO ASSOCIATES

in cooperation with

THE UNIVERSITY OF NORTH TEXAS

certifies that

Craig C. Tolleson

SS#: 431-59-6340

*has successfully completed the
Environmental Training Program entitled*

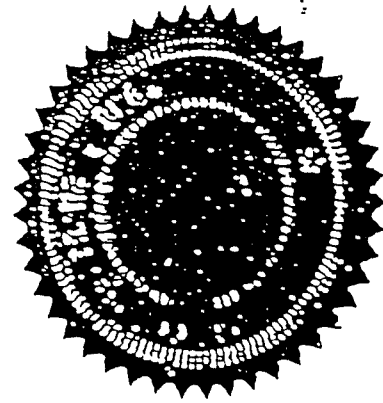
NIOSH 502 Equivalency Course

Conducted at Arlington, Texas on January 13 - 17, 1992.

This 40 hour course fulfills the training requirements of OSHA (29 CFR 1926.58 and 1910.1001) for sampling and evaluating asbestos fibers.

GEBCO'S Environmental Training Programs are provided in cooperation with federal and state regulatory agencies, and fulfill all applicable requirements for accreditation.

GEBCO Associates, Inc. • Hurst, Texas



Michael J. Lee
Course Director

01/17/92

Date of Issue

92004

Certificate Number

QUALITATIVE RESPIRATOR FIT TEST

NAME: CRAIG Tolleson

SOCIAL SECURITY NUMBER: 431-59-6348

COMPANY: MORRIS & JONES

TEST METHOD: IRRITANT SMOKE

RESPIRATOR: BRAND NORTH MODEL 7700 NIOSH TC# 21C-152

SMALL MEDIUM ✓ LARGE

FACEPIECE RUBBER: SYNTHETIC ✓ NATURAL

RESPIRATORY PROTECTION:

FIRST CHOICE 1/2 FACE SECOND CHOICE Full FACE

FACE SEAL CHECKS:

VISUAL ✓ NEGATIVE PRESSURE ✓ POSITIVE PRESSURE ✓

LIMITATIONS:

BEARD DENTURE GLASSES NONE ✓

FIT TEST PROCEDURE:

1. GROSS LEAK CHECK ✓
2. BREATH NORMALLY ✓
3. BREATH DEEPLY ✓
4. TURN HEAD ✓
5. NOD HEAD ✓
6. REPEAT PASSAGE ✓
7. JOG IN PLACE ✓
8. BREATH NORMALLY ✓

WHEN THE SUNLIGHT STRIKES RAINDROPS IN THE AIR, THEY ACT LIKE A PRISM AND FORM A RAINBOW. THE RAINBOW IS A DIVISION OF WHITE LIGHT INTO MANY BEAUTIFUL COLORS. THESE TAKE THE SHAPE OF A LONG ROUND ARCH, WITH ITS PATH HIGH ABOVE, AND ITS TWO ENDS APPARENTLY BEYOND THE HORIZON. THERE IS, ACCORDING TO LEGEND, A BOILING POT OF GOLD AT ONE END. PEOPLE LOOK, BUT NO ONE EVER FINDS IT. WHEN A MAN LOOKS FOR SOMETHING BEYOND HIS REACH, HIS FRIENDS SAY HE IS LOOKING FOR THE POT OF GOLD AT THE END OF THE RAINBOW.

EMPLOYEE SIGNATURE: Craig Tolleson

DATE 11-10-95

TEST GIVEN BY: Ricky D. Banta

DATE 11/10/95