

Project: Ben Franklin H.S. Date: 10-9-2019
 Project Number: 010-4507 Rotometer No.: HVR LVR
 Laboratory: IATL Analysis: TEM Phila. Requirements: YES NO

AIR SAMPLE LOG & CHAIN OF CUSTODY

| No. | SAMPLES | | TIME | | | | CALIBRATION | | | ANALYTICAL | |
|---------------------|--|------|------|------|-------|-------|-------------|--------|-------------------------------|--------------|--|
| | Location | Code | On | Off | Total | Start | Finish | Liters | Laboratory # Fibers/Fields | Results | |
| JR M 10-09-01 | MECH ROOM #20 WEST | 1A | 3:43 | 6:43 | 180 | 10 | 10 | 1800 | 6895081 | | |
| JR M 10-09-02 | MECH ROOM #20 MIDDLE | 1A | 3:43 | 6:43 | 180 | 10 | 10 | 1800 | 6895082 | | |
| JR M 10-09-03 | MECH ROOM #20 EAST | 1A | 3:43 | 6:43 | 180 | 10 | 10 | 1800 | 6895083 | | |
| JR M 10-09-04 | TENT OUTSIDE ROOMS 18 AND 20 INSIDE TENT | 1A | 3:41 | 6:41 | 180 | 10 | 10 | 1800 | 6895084 | | |
| JR M 10-09-05 | HALL OUTSIDE MECH ROOM #20 | 1N | 3:39 | 6:39 | 180 | 10 | 10 | 1800 | 6895085 | RECEIVED | |
| JR M 10-09-06 | HALL OUTSIDE TENT | 1N | 3:39 | 6:39 | 180 | 10 | 10 | 1800 | 6895086 | OCT - 9 2019 | |
| JR M 10-09-07 | HALL OUTSIDE ROTC | 1N | 3:39 | 6:39 | 180 | 10 | 10 | 1800 | 6895087 | ATL-BY DE | |
| JR M 10-09-08 | Sealed BLANK | QC | - | - | - | - | - | - | 6895088 | | |

Sampling Codes

- 1 Diagnostic
 - 2 Preliminary
 - 3 Clearance/Final
 - 4 Personnel Work Area
 - 5 Environmental Work Area
 - 6 Personnel Clean Area
 - 7 Environmental Clean Area
- A Aggressive
 - N Normal
 - E Excursion
 - T TWA
 - R Representative

Turnaround Time (TAT): Immediate 6 Hour 24 Hour 48 Hour Other

6 Hour TAT Contact: Berrie Bryson at: _____
 Samples Collected By: J. Merritt Date: 10-9-19
 Transmitted to Lab By: J. Merritt Date: 10-9-19
 Received in Lab By: _____ Date: _____
 Samples Analyzed By: [Signature] Date: 10/10/19

Project: Ben Franklin H.S. Date: 10-9-19
 Project Number: 010-4507 Rotometer No.: HVR LVR
 Laboratory: IATL Analysis: TEM Phila. Requirements: YES NO

AIR SAMPLE LOG & CHAIN OF CUSTODY

| No. | SAMPLES | | TIME | | | | CALIBRATION | | | ANALYTICAL | |
|--------------------|--------------|------|------|-----|-------|-------|-------------|--------|-------------------------------|------------|--|
| | Location | Code | On | Off | Total | Start | Finish | Liters | Laboratory # Fibers/Fields | Results | |
| JR M 10-9-09 | Sealed BLANK | QA | - | - | - | - | - | - | 6895089 | | |
| JR M 10-9-10 | Field BLANK | QC | - | - | - | - | - | - | 6895090 | | |
| - | | | | | | | | | | | |
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Turnaround Time (TAT): 6 Hour 24 Hour 48 Hour Other _____
 6 Hour TAT Contact: Berrie Bryson at: _____
 Samples Collected By: J. Merritt Date: 10-9-19
 Transmitted to Lab By: J. Merritt Date: 10-9-19
 Received in Lab By: _____ Date: _____
 Samples Analyzed By: _____ Date: _____

- Sampling Codes**
- 1 Diagnostic
 - 2 Preliminary
 - 3 Clearance/Final
 - 4 Personnel Work Area
 - 5 Environmental Work Area
 - 6 Personnel Clean Area
 - 7 Environmental Clean Area
- Aggressive**
 A Aggressive
 N Normal
 E Excursion
 T TWA
 R Representative

PRELIMINARY RESULTS
Airborne Asbestos Analysis
TEM AHERA

Client: Synertech Inc.
228 Moore Street
Philadelphia, PA 19148

Client No.: SYN177

Batch No.: 601516
Project: Ben Franklin HS
Project No.: 010-4507
Philly Regs: Y
Turn-Around Time: 6 Hour Rush

| Client Contacts: | Laboratory Contacts: |
|-------------------|--|
| Contacts: _____ | Contacts: Frank E. Ehrenfeld III |
| Phone: _____ | Phone: (856) 231-9449 |
| Fax: _____ | Fax: (856) 231-9818 |
| Cell/Pager: _____ | Cell/Pager: (609) 929-4211 |
| E-Mail: _____ | E-Mail: frankehrenfeld@iatl.com |

| Chain of Custody: | | | |
|------------------------------|----------------|-------------------------|-------------|
| Samples Taken in Field: | <u>Client</u> | Date: <u>10/9/2019</u> | Time: _____ |
| Samples Rec'd at Laboratory: | <u>DG</u> | Date: <u>10/9/2019</u> | Time: _____ |
| Samples Analyzed: | <u>J. Jeon</u> | Date: <u>10/10/2019</u> | Time: _____ |
| Preliminary Results Faxed: | _____ | Date: _____ | Time: _____ |
| Preliminary Results E-Mail: | _____ | Date: _____ | Time: _____ |

Summary Data
Transmission Electron Microscopy
AHERA 40CFR 763

| Client Sample ID # | IATL Sample ID # | Volume (L) | Comments | Results s/mm ² | Results s/cc |
|--------------------|------------------|------------|---------------|---------------------------|--------------|
| JRM-1009-01 | 6895081 | 1800 | None Detected | < 19.2 | < 0.0041 |
| JRM-1009-02 | 6895082 | 1800 | None Detected | < 19.2 | < 0.0041 |
| JRM-1009-03 | 6895083 | 1800 | None Detected | < 19.2 | < 0.0041 |
| JRM-1009-04 | 6895084 | 1800 | None Detected | < 19.2 | < 0.0041 |
| JRM-1009-05 | 6895085 | 1800 | None Detected | < 19.2 | < 0.0041 |
| JRM-1009-06 | 6895086 | 1800 | None Detected | < 19.2 | < 0.0041 |
| JRM-1009-07 | 6895087 | 1800 | None Detected | < 19.2 | < 0.0041 |
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AHERA Clearance Criteria is 70 s/mm². Average (s/mm²) = 19.2
Phila. Regulations Clearance Criteria is 0.00554 s/cc based on 5 samples Geo = 0.0041
Z Test Results (see attached, if applicable)

Grid Box #: 1751

Instrument (I, II, III) II

These preliminary results are issued by IATL to expedite procedures by the clients based upon the above data. IATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificates of Analysis will follow these preliminary results. The signed COAs are to be considered the official results.

Client Name: SynerTech Inc. Analysis Date: 10/10/19 IATL Sample #: 6895081
 Client Project #: 010-4507 Client Sample #: JRM-1009-01
 Sample Type: AHERA -Philly Regulations IATL Grid Box #: 1751
 QC Submittal Grid Archive ID #: Q10R1

Electron Microscope ID: _____ Filter Dia. (mm): 25 Magnification: 20,000X
 Effective Area (mm): 385
 II Hitachi H600AB, 542-47-7 Filter Type: MCE Accelerating Voltage: 100KeV
 EVEX Filter Pore Size (µm): 0.45

Grid Opening: 0.115 mm Volume of Air Sampled: 1800 Liters
 Grid opening Area: 0.013 mm²
 Grid Openings Read/Required: 4 / 4 Analytical Sensitivity: 19.2 mm²
 Total Area Analyzed: 0.0520 mm² Minimum Detection Limit: 0.0041 s/cc

Total Asbestos Structures: NSD Non-Asbestos Structures: NSD
 0.5µm - 5.0µm: NSD
 >5.0µm: _____
 Asbestos: < 19.2 s/mm² Non-Asbestos: < 19.2 s/mm²
 Asbestos: < 0.0041 s/cc Non-Asbestos: < 0.0041 s/cc

Analysis Data:

| Grid Opening ID | Structure Number | Structure Type F/B/C/M | ¹ Length 0.5 -5.0 µm | ² Length > 5.0 µm | * Chrysotile | **Amphibole | ***Non-Asbestos | Micrograph / EDS ID |
|-----------------|------------------|------------------------|---------------------------------|------------------------------|--------------|-------------|-----------------|---------------------|
| Q10 | E3 | NSD | | | | | | |
| | E4 | NSD | | | | | | |
| R1 | D3 | NSD | | | | | | |
| | D4 | NSD | | | | | | |
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| | | | | | | | | |
| Total: | NSD | NSD | 0 | 0 | 0 | 0 | 0 | |

* Must confirm by Morphology, SAED, and EDXA for each suspect asbestos fiber
 Record visible prominent Chrysotile DP reflections (002 ,004, 110, 130, 220, 200)
 ** Define Amphibole (DP obtained Y/N). Print-out EDS and attach.
 *** Characterize by EDS
 1, 2 Record Structure Length & Width (µm) SEE REVERSE: FIBER ORIENTATION MAP

| | |
|----------------------|-------------|
| Prep Quality: | |
| Dissolution | <u>Good</u> |
| Carbon Film | <u>Good</u> |
| Loading | <u>3%</u> |

Comments: _____ Analyzed By: J. Jeon
 _____ Reviewed By: _____

Client Name: Synertech Inc.

Analysis Date:

IATL Sample #: 6895082

Client Project #: 010-4507

10/10/19

Client Sample #: JRM-1009-02

Sample Type: **AHERA -Philly Regulations**

IATL Grid Box #: 1751

QC Submittal

Grid Archive ID #: R3R5

| | | | |
|-------------------------------------|------------------------------------|-----------------------|----------------|
| Electron Microscope ID: | Filter Dia. (mm): <u>25</u> | Magnification: | <u>20,000X</u> |
| | Effective Area (mm): <u>385</u> | | |
| II Hitachi H600AB, 542-47-7 EVEX | Filter Type: <u>MCE</u> | Accelerating Voltage: | <u>100KeV</u> |
| | Filter Pore Size (µm): <u>0.45</u> | | |

| | |
|--|---|
| Grid Opening: <u>0.115</u> mm | Volume of Air Sampled: <u>1800</u> Liters |
| Grid opening Area: <u>0.013</u> mm ² | |
| Grid Openings Read/Required: <u>4</u> 4 | Analytical Sensitivity: <u>19.2</u> mm ² |
| Total Area Analyzed: <u>0.0520</u> mm ² | Minimum Detection Limit: <u>0.0041</u> s/cc |

| | |
|--|--|
| Total Asbestos Structures: <u>NSD</u> | Non-Asbestos Structures: <u>NSD</u> |
| 0.5µm - 5.0µm: <u>NSD</u> | |
| >5.0µm: _____ | |
| Asbestos: <u>< 19.2</u> s/mm ² | Non-Asbestos: <u>< 19.2</u> s/mm ² |
| Asbestos: <u>< 0.0041</u> s/cc | Non-Asbestos: <u>< 0.0041</u> s/cc |

Analysis Data:

| Grid Opening ID | Structure Number | Structure Type F/B/C/M | ¹ Length 0.5 -5.0 µm | ² Length > 5.0 µm | * Chrysotile | **Amphibole | ***Non-Asbestos | Micrograph / EDS ID |
|-----------------|------------------|------------------------|---------------------------------|------------------------------|--------------|-------------|-----------------|---------------------|
| R3 | F5 | NSD | | | | | | |
| | F6 | NSD | | | | | | |
| R5 | B3 | NSD | | | | | | |
| | B4 | NSD | | | | | | |
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| Total: | NSD | NSD | 0 | 0 | 0 | 0 | 0 | |

- * Must confirm by Morphology, SAED, and EDXA for each suspect asbestos fiber
Record visible prominent Chrysotile DP reflections (002, 004, 110, 130, 220, 200)
 - ** Define Amphibole (DP obtained Y/N). Print-out EDS and attach.
 - *** Characterize by EDS
- 1, 2 Record Structure Length & Width (µm) SEE REVERSE: FIBER ORIENTATION MAP

| | |
|----------------------|-------------|
| Prep Quality: | |
| Dissolution | <u>Good</u> |
| Carbon Film | <u>Good</u> |
| Loading | <u>3%</u> |

Comments: _____

Analyzed By: J. Jeon
Reviewed By: _____

Client Name: Synertech Inc.

Analysis Date:

IATL Sample #: 6895083

Client Project #: 010-4507

10/10/19

Client Sample #: JRM-1009-03

Sample Type: **AHERA -Philly Regulations**

IATL Grid Box #: 1751

QC Submittal

Grid Archive ID #: R7R9

| | | | |
|-----------------------------|------------------------------------|-----------------------|----------------|
| Electron Microscope ID: | Filter Dia. (mm): <u>25</u> | Magnification: | <u>20,000X</u> |
| II Hitachi H600AB, 542-47-7 | Effective Area (mm): <u>385</u> | Accelerating Voltage: | <u>100KeV</u> |
| EVEX | Filter Type: <u>MCE</u> | | |
| | Filter Pore Size (µm): <u>0.45</u> | | |

| | |
|--|---|
| Grid Opening: <u>0.115</u> mm | Volume of Air Sampled: <u>1800</u> Liters |
| Grid opening Area: <u>0.013</u> mm ² | |
| Grid Openings Read/Required: <u>4</u> / <u>4</u> | Analytical Sensitivity: <u>19.2</u> mm ² |
| Total Area Analyzed: <u>0.0520</u> mm ² | Minimum Detection Limit: <u>0.0041</u> s/cc |

| | |
|--|--|
| Total Asbestos Structures: <u>NSD</u> | Non-Asbestos Structures: <u>NSD</u> |
| 0.5µm - 5.0µm: <u>NSD</u> | |
| >5.0µm: _____ | |
| Asbestos: <u>< 19.2</u> s/mm ² | Non-Asbestos: <u>< 19.2</u> s/mm ² |
| Asbestos: <u>< 0.0041</u> s/cc | Non-Asbestos: <u>< 0.0041</u> s/cc |

Analysis Data:

| Grid Opening ID | Structure Number | Structure Type F/B/C/M | ¹ Length 0.5-5.0 µm | ² Length > 5.0 µm | * Chrysotile | **Amphibole | ***Non-Asbestos | Micrograph / EDS ID |
|-----------------|------------------|------------------------|--------------------------------|------------------------------|--------------|-------------|-----------------|---------------------|
| R7 | G8 | NSD | | | | | | |
| | G9 | NSD | | | | | | |
| R9 | F3 | NSD | | | | | | |
| | F4 | NSD | | | | | | |
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| Total: | NSD | NSD | 0 | 0 | 0 | 0 | 0 | |

* Must confirm by Morphology, SAED, and EDXA for each suspect asbestos fiber
Record visible prominent Chrysotile DP reflections (002 ,004, 110, 130, 220, 200)

** Define Amphibole (DP obtained Y/N). Print-out EDS and attach.

*** Characterize by EDS

1, 2 Record Structure Length & Width (µm) SEE REVERSE: FIBER ORIENTATION MAP

| | |
|----------------------|-------------|
| Prep Quality: | |
| Dissolution | <u>Good</u> |
| Carbon Film | <u>Fair</u> |
| Loading | <u>3%</u> |

Comments: _____

Analyzed By: J. Jeon

Reviewed By: _____

Client Name: Synertech Inc.
 Client Project #: 010-4507
 Sample Type: **AHERA -Philly Regulations**
 QC Submittal

Analysis Date:
10/10/19

IATL Sample #: 6895084
 Client Sample #: JRM-1009-04
 IATL Grid Box #: 1751
 Grid Archive ID #: S2S4

| | | | |
|-----------------------------|------------------------------------|-----------------------|----------------|
| Electron Microscope ID: | Filter Dia. (mm): <u>25</u> | Magnification: | <u>20,000X</u> |
| | Effective Area (mm): <u>385</u> | | |
| II Hitachi H600AB, 542-47-7 | Filter Type: <u>MCE</u> | Accelerating Voltage: | <u>100KeV</u> |
| EVEX | Filter Pore Size (µm): <u>0.45</u> | | |

| | |
|--|---|
| Grid Opening: <u>0.115</u> mm | Volume of Air Sampled: <u>1800</u> Liters |
| Grid opening Area: <u>0.013</u> mm ² | |
| Grid Openings Read/Required: <u>4</u> / <u>4</u> | Analytical Sensitivity: <u>19.2</u> mm ² |
| Total Area Analyzed: <u>0.0520</u> mm ² | Minimum Detection Limit: <u>0.0041</u> s/cc |

| | |
|--|--|
| Total Asbestos Structures: <u>NSD</u> | Non-Asbestos Structures: <u>NSD</u> |
| 0.5µm - 5.0µm: <u>NSD</u> | |
| >5.0µm: _____ | |
| Asbestos: <u>< 19.2</u> s/mm ² | Non-Asbestos: <u>< 19.2</u> s/mm ² |
| Asbestos: <u>< 0.0041</u> s/cc | Non-Asbestos: <u>< 0.0041</u> s/cc |

Analysis Data:

| Grid Opening ID | Structure Number | Structure Type F/B/C/M | ¹ Length 0.5 -5.0 µm | ² Length > 5.0 µm | * Chrysotile | **Amphibole | ***Non-Asbestos | Micrograph / EDS ID |
|-----------------|------------------|------------------------|---------------------------------|------------------------------|--------------|-------------|-----------------|---------------------|
| S2 | D3 | NSD | | | | | | |
| | D4 | NSD | | | | | | |
| S4 | E4 | NSD | | | | | | |
| | E5 | NSD | | | | | | |
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| Total: | NSD | NSD | 0 | 0 | 0 | 0 | 0 | |

- * Must confirm by Morphology, SAED, and EDXA for each suspect asbestos fiber
Record visible prominent Chrysotile DP reflections (002 ,004, 110, 130, 220, 200)
- ** Define Amphibole (DP obtained Y/N). Print-out EDS and attach.
- *** Characterize by EDS
- 1, 2 Record Structure Length & Width (µm) SEE REVERSE: FIBER ORIENTATION MAP

| | |
|----------------------|-------------|
| Prep Quality: | |
| Dissolution | <u>Good</u> |
| Carbon Film | <u>Good</u> |
| Loading | <u>2%</u> |

Comments: _____

Analyzed By: J. Jeon
 Reviewed By: _____

Client Name: SynerTech Inc.
 Client Project #: 010-4507
 Sample Type: **AHERA -Philly Regulations**
 QC Submittal

Analysis Date:
10/10/19

IATL Sample #: 6895085
 Client Sample #: JRM-1009-05
 IATL Grid Box #: 1751
 Grid Archive ID #: S6S8

| | | | |
|-------------------------------------|------------------------------------|-----------------------|----------------|
| Electron Microscope ID: | Filter Dia. (mm): <u>25</u> | Magnification: | <u>20,000X</u> |
| | Effective Area (mm): <u>385</u> | | |
| II Hitachi H600AB, 542-47-7 EVEX | Filter Type: <u>MCE</u> | Accelerating Voltage: | <u>100KeV</u> |
| | Filter Pore Size (µm): <u>0.45</u> | | |

| | |
|--|---|
| Grid Opening: <u>0.115</u> mm | Volume of Air Sampled: <u>1800</u> Liters |
| Grid opening Area: <u>0.013</u> mm ² | |
| Grid Openings Read/Required: <u>4</u> / <u>4</u> | Analytical Sensitivity: <u>19.2</u> mm ² |
| Total Area Analyzed: <u>0.0520</u> mm ² | Minimum Detection Limit: <u>0.0041</u> s/cc |

| | |
|--|--|
| Total Asbestos Structures: <u>NSD</u> | Non-Asbestos Structures: <u>NSD</u> |
| 0.5µm - 5.0µm: <u>NSD</u> | |
| >5.0µm: _____ | |
| Asbestos: <u>< 19.2</u> s/mm ² | Non-Asbestos: <u>< 19.2</u> s/mm ² |
| Asbestos: <u>< 0.0041</u> s/cc | Non-Asbestos: <u>< 0.0041</u> s/cc |

Analysis Data:

| Grid Opening ID | Structure Number | Structure Type F/B/C/M | ¹ Length 0.5 -5.0 µm | ² Length > 5.0 µm | * Chrysotile | **Amphibole | ***Non-Asbestos | Micrograph / EDS ID |
|-----------------|------------------|------------------------|---------------------------------|------------------------------|--------------|-------------|-----------------|---------------------|
| S6 | D5 | NSD | | | | | | |
| | D6 | NSD | | | | | | |
| S8 | D4 | NSD | | | | | | |
| | D5 | NSD | | | | | | |
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| Total: | NSD | NSD | 0 | 0 | 0 | 0 | 0 | |

* Must confirm by Morphology, SAED, and EDXA for each suspect asbestos fiber
 Record visible prominent Chrysotile DP reflections (002 ,004, 110, 130, 220, 200)
 ** Define Amphibole (DP obtained Y/N). Print-out EDS and attach.
 *** Characterize by EDS
 1, 2 Record Structure Length & Width (µm) SEE REVERSE: FIBER ORIENTATION MAP

| | |
|----------------------|-------------|
| Prep Quality: | |
| Dissolution | <u>Good</u> |
| Carbon Film | <u>Good</u> |
| Loading | <u>2%</u> |

Comments: _____

Analyzed By: J. Jeon
 Reviewed By: _____

Client Name: Synertech Inc.

Analysis Date: 10/10/19

IATL Sample #: 6895086

Client Project #: 010-4507

Client Sample #: JRM-1009-06

Sample Type: AHERA -Philly Regulations

IATL Grid Box #: 1751

QC Submittal

Grid Archive ID #: S10T1

| | | | |
|-------------------------------------|------------------------------------|-----------------------|----------------|
| Electron Microscope ID: | Filter Dia. (mm): <u>25</u> | Magnification: | <u>20,000X</u> |
| II Hitachi H600AB, 542-47-7 EVEX | Effective Area (mm): <u>385</u> | Accelerating Voltage: | <u>100KeV</u> |
| | Filter Type: <u>MCE</u> | | |
| | Filter Pore Size (µm): <u>0.45</u> | | |

| | |
|--|---|
| Grid Opening: <u>0.115</u> mm | Volume of Air Sampled: <u>1800</u> Liters |
| Grid opening Area: <u>0.013</u> mm ² | Analytical Sensitivity: <u>19.2</u> mm ² |
| Grid Openings Read/Required: <u>4</u> / <u>4</u> | |
| Total Area Analyzed: <u>0.0520</u> mm ² | |

| | |
|--|--|
| Total Asbestos Structures: <u>NSD</u> | Non-Asbestos Structures: <u>NSD</u> |
| 0.5µm - 5.0µm: <u>NSD</u> | |
| >5.0µm: _____ | |
| Asbestos: <u>< 19.2</u> s/mm ² | Non-Asbestos: <u>< 19.2</u> s/mm ² |
| Asbestos: <u>< 0.0041</u> s/cc | Non-Asbestos: <u>< 0.0041</u> s/cc |

Analysis Data:

| Grid Opening ID | Structure Number | Structure Type F/B/C/M | ¹ Length 0.5 -5.0 µm | ² Length > 5.0 µm | * Chrysotile | **Amphibole | ***Non-Asbestos | Micrograph / EDS ID |
|-----------------|------------------|------------------------|---------------------------------|------------------------------|--------------|-------------|-----------------|---------------------|
| S10 | E4 | NSD | | | | | | |
| | E5 | NSD | | | | | | |
| T1 | F3 | NSD | | | | | | |
| | F4 | NSD | | | | | | |
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| Total: | NSD | NSD | 0 | 0 | 0 | 0 | 0 | |

- * Must confirm by Morphology, SAED, and EDXA for each suspect asbestos fiber
Record visible prominent Chrysotile DP reflections (002 ,004, 110, 130, 220, 200)
- ** Define Amphibole (DP obtained Y/N). Print-out EDS and attach.
- *** Characterize by EDS
- 1, 2 Record Structure Length & Width (µm) SEE REVERSE: FIBER ORIENTATION MAP

| | |
|----------------------|-------------|
| Prep Quality: | |
| Dissolution | <u>Good</u> |
| Carbon Film | <u>Good</u> |
| Loading | <u>2%</u> |

Comments: _____

Analyzed By: J. Jeon
Reviewed By: _____

