



Response of RJ Lee Group

to the

**United States Environmental Protection Agency Region IX
Response (dated April 20, 2006) to the November 2005
National Stone, Sand & Gravel Association Report
Prepared by the R.J. Lee Group, Inc [sic]
"Evaluation of EPA's Analytical Data from the
El Dorado Hills Asbestos Evaluation Project"**

**Regarding
Evaluation of EPA's Analytical Data
from the El Dorado Hills
Asbestos Evaluation Project**

**Exhibit A
Attachment A-4a
*TEM and FESEM Particle Images and Data***

Date: July 2006

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Exhibit A: Attachment A-4a

TEM and FESEM Particle Images and Data

1.0 Data Description

Samples were analyzed by Transmission Electron Microscopy (TEM) and Scanning Electron Microscopy (SEM). Particles identified and characterized in one instrument (i.e., TEM or SEM) were relocated and further characterized in the other. Photographs and data collected are shown in the following pages.

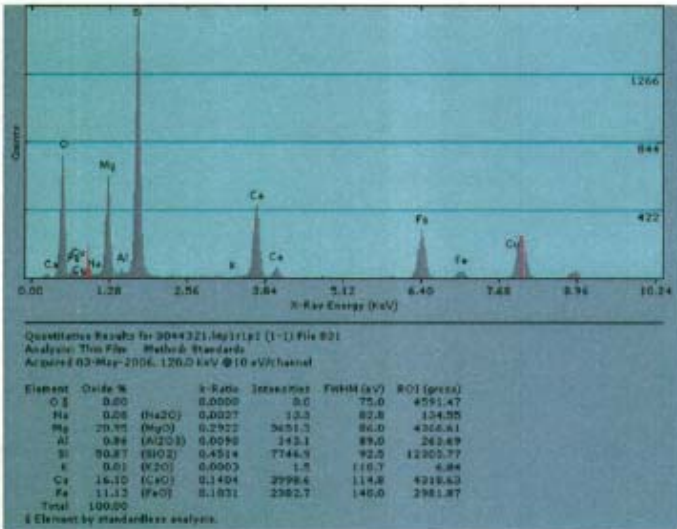
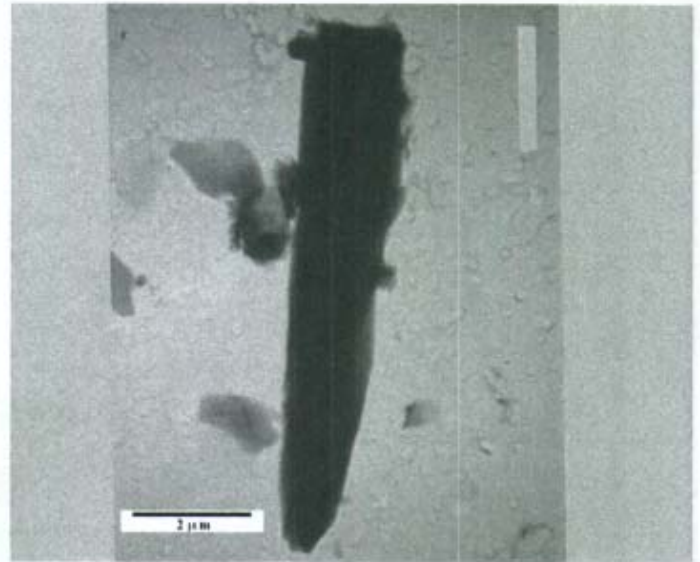
- The data for each particle is shown on a separate page.
- The SEM image is shown on the upper left and the TEM image of the same particle is shown on the upper right.
- Elemental composition of the particle was determined using Energy Dispersive X-ray Spectroscopy, EDX (also referred to as EDS). The spectrum from the EDX analysis is shown on the lower left.
- The length, width and aspect ratio of the particle is listed on the lower left beneath the EDX spectra.
- The SAED pattern is shown on the lower right. The indexed crystallographic zone for the pattern is shown below the pattern along with the measured spacing between diffraction spots (D1 and D2) and the enclosed angle (Φ).
- Identifying information for each particle is shown in the lower center of the page. This information includes the RJLG sample number, the field and fiber number and the sample identifier upon receipt.
- Stereo images, collected for some particles, are shown on the page following the SEM/TEM data for each particle. A stereo image of the complete particle is shown in the upper left. An additional high magnification stereo image, collected to show particle details, is shown on the upper right.

2.0 Analytical Procedure

TEM analysis was conducted using JEOL JEM 1200EX and JEM 2000FX TEMs operating at 120kV with energy dispersive spectroscopy (EDS) detectors running 4Pi for EDX quantification. TEM characterization included the collection of images, EDX spectra and SAED patterns.

SEM analysis was conducted using a FEI Sirion 400 field emission scanning electron microscope operating at 3keV. Samples were mounted for FESEM examination using a dual grid holder (EM-Q2 Quick Change Retainer) designed for use with a JEOL TEM sample rod. The dual grid holder was mounted with set screws between two aluminum plates that were adhered to a 1" aluminum SEM pin mount stub. Secondary electron images of particles were collected using the "Through the Lens Detector" (TLD). Stereo images were created for particles by superimposing images collected at 0° tilt (tinted red) with images collected at 5° tilt (tinted green)¹.

¹ Goldstein, J.I., Newbury, D.E., Echlin, P., Joy, D.C., Romig, Jr., A.D. Lyman, C.E., Fiori, C., Lifshin, E. (1992), 'Scanning Electron Microscopy and X-Ray Microanalysis: A Text for Biologists, Materials Scientists, and Geologists', Plenum Press, New York, p. 260-267.



L = 12.15 W = 2.25 AR = 5:1

Mineral category: Amphibole

Zone 311

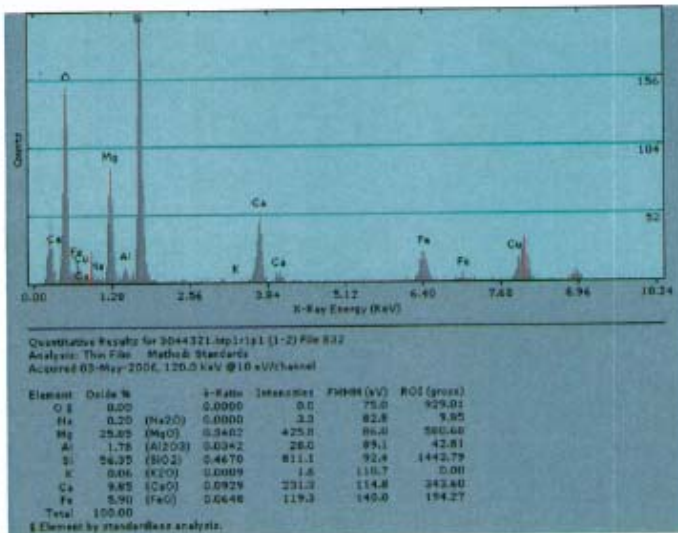
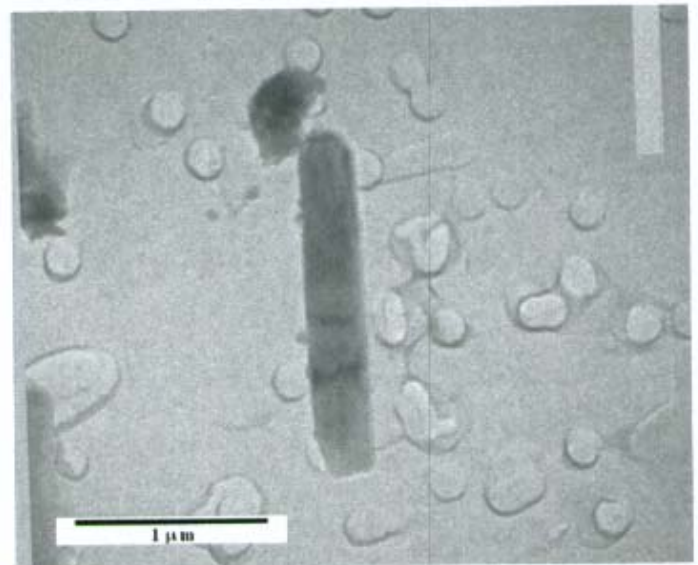
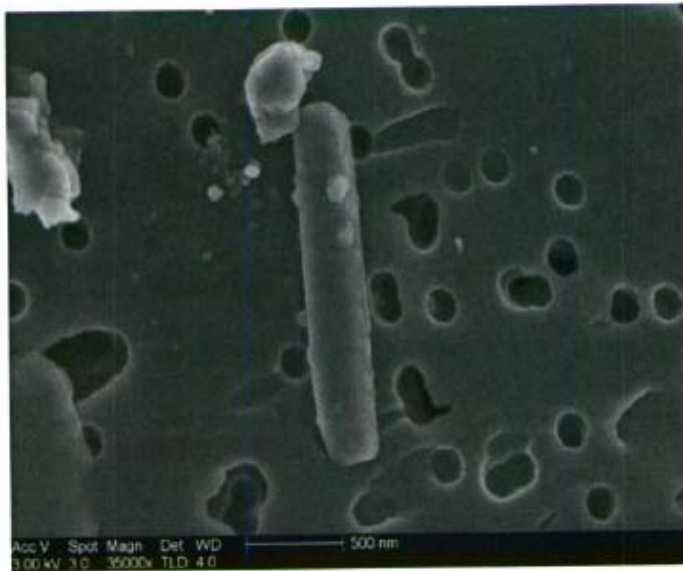
D1 5.19

Phi 81.5

D2 2.57

RJLG # 3044321 Field 1, Fiber 1
 CPS-S05-100804-FG2 -- Soil

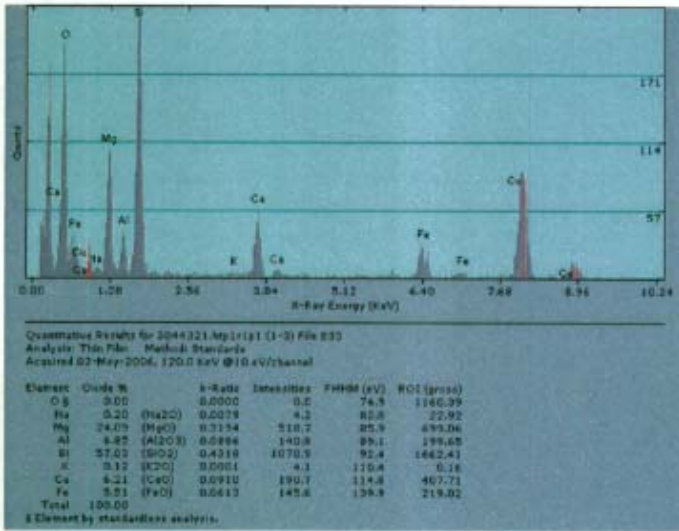
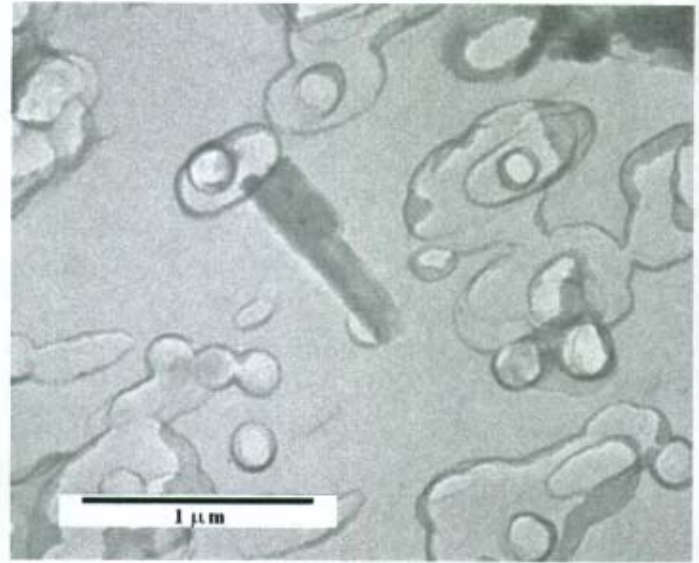
TEM and SEM Data



L = 1.9 W = .25 AR = 8:1
 Mineral category: Amphibole

Zone 510 D1 5.25
 Phi 90 D2 3.46

RJLG # 3044321 Field 1, Fiber 2
 CPS-S05-100804-FG2 -- Soil

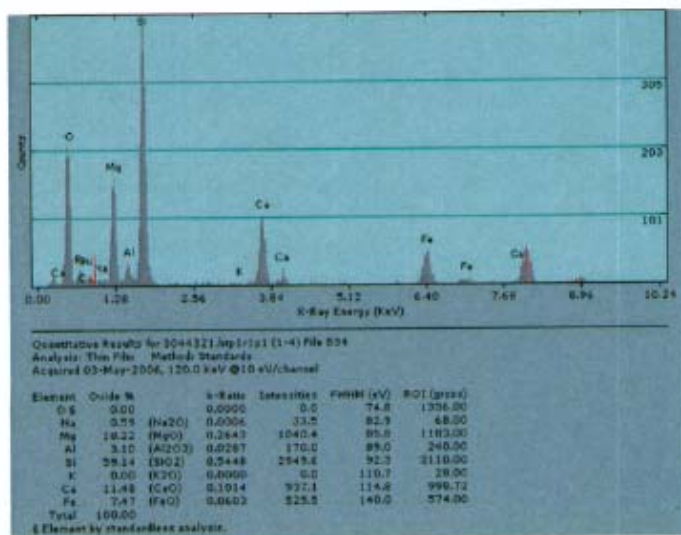
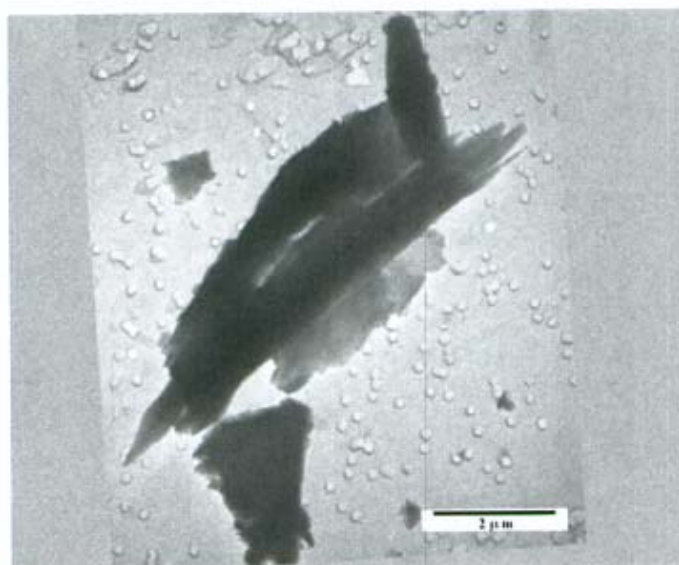
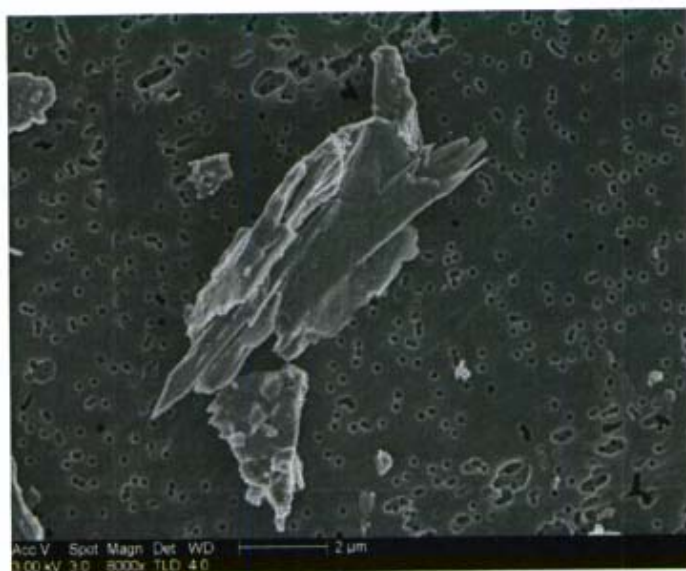


L = 1.1 W = .2 AR = 6:1

Mineral category: Amphibole

Zone	102	D1	9.3
Phi	89.9	D2	4.13

RJLG # 3044321 Field 1, Fiber 3
CPS-S05-100804-FG2 -- Soil



L = 10.5 W = 1.1 AR = 10:1

Mineral category: Amphibole

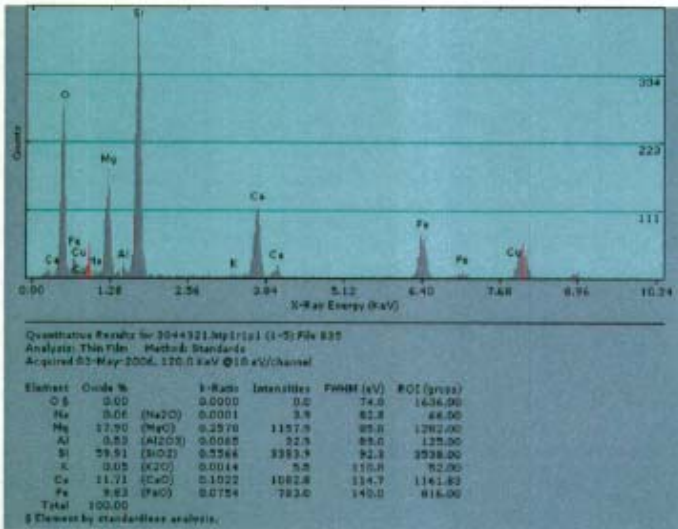
Zone 20-3

D1 9.29

Phi 8.4

D2 1.79

RJLG # 3044321 Field 1, Fiber 4
 CPS-S05-100804-FG2 -- Soil

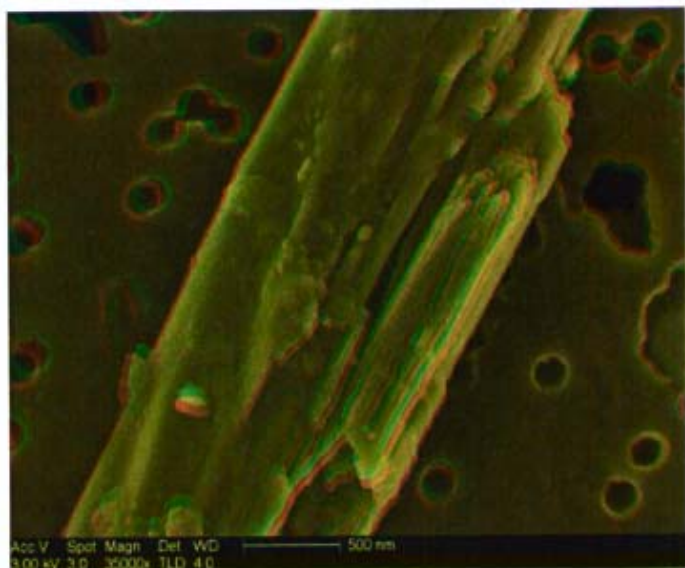


L = 10 W = 1 AR = 10:1

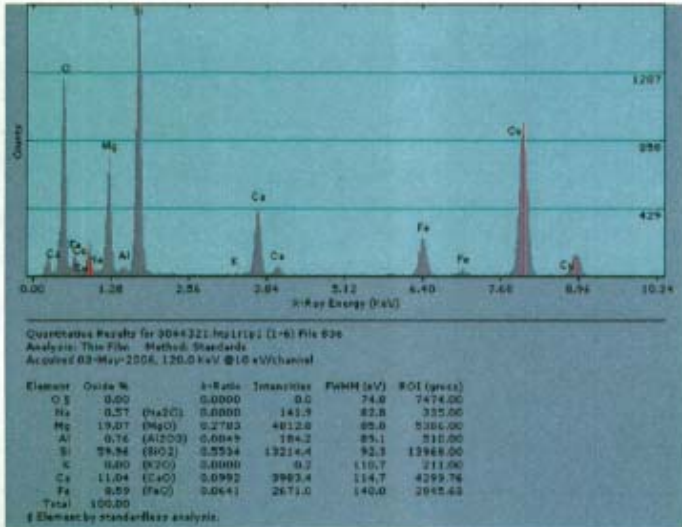
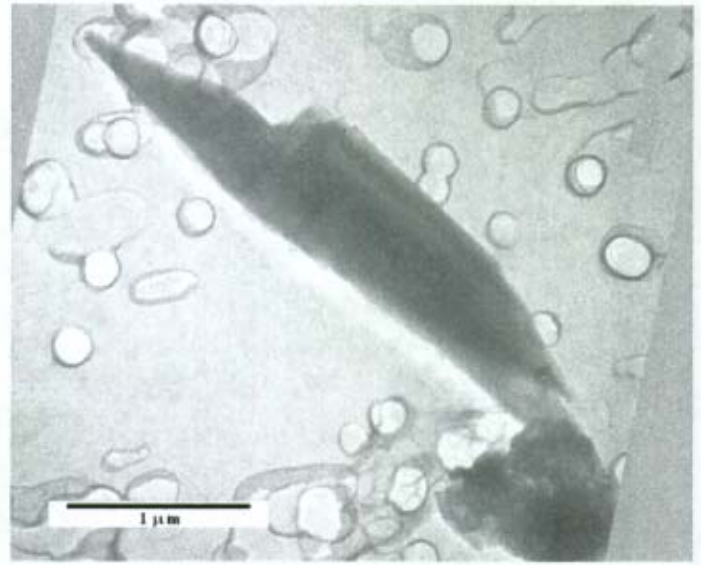
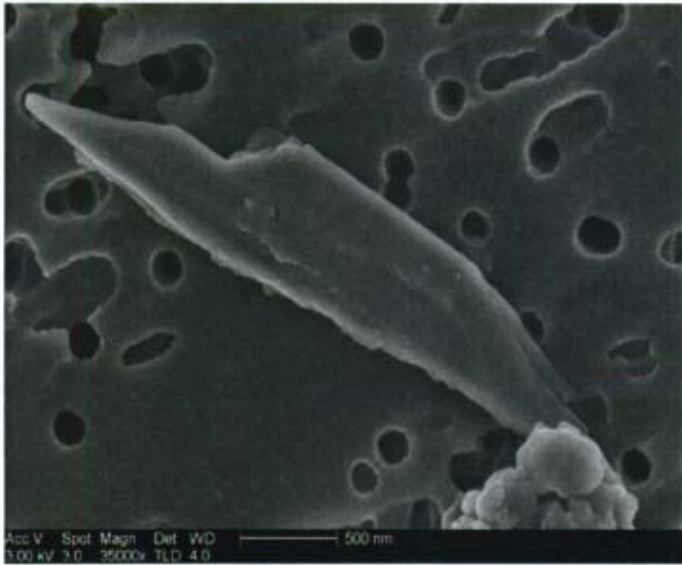
SAED not measured

Mineral category: Amphibole

RJLG # 3044321 Field 1, Fiber 5
 CPS-S05-100804-FG2 -- Soil



RJLG # 3044321 Field 1, Fiber 5
CPS-S05-100804-FG2 -- Soil

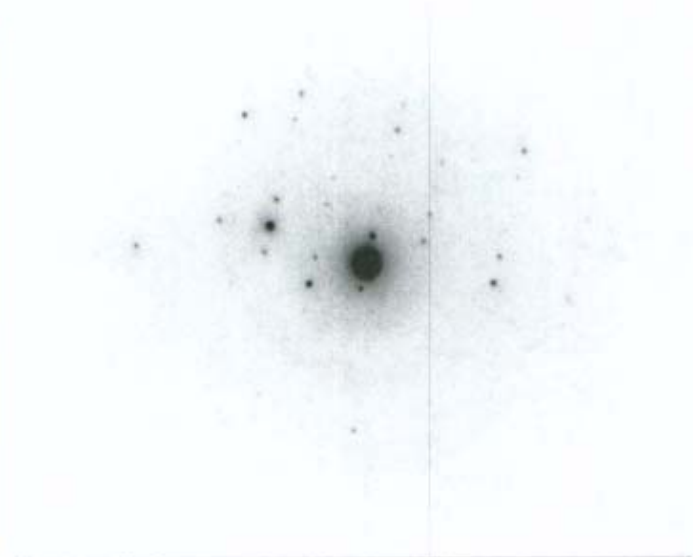
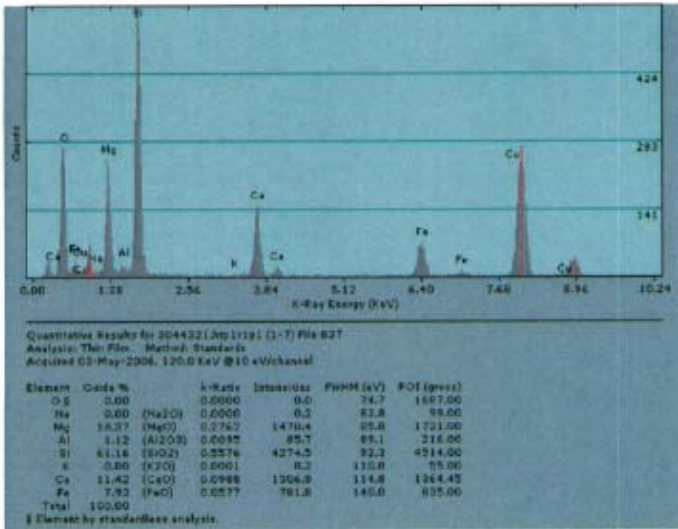
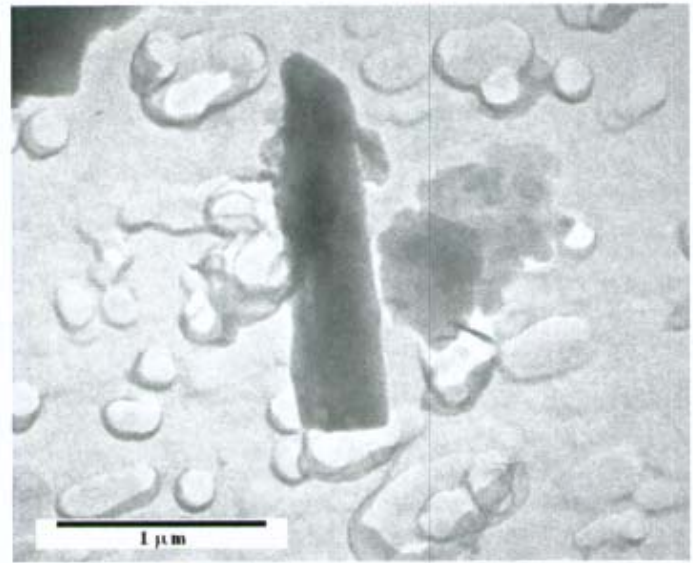


L = 3.25 W = .6 AR = 5:1
 Mineral category: Amphibole

Zone	201	D1	9.22
Phi	81.5	D2	2.68

RJLG # 3044321 Field 1, Fiber 6
 CPS-S05-100804-FG2 -- Soil

TEM and SEM Data



L = 2 W = .4 AR = 5:1

Mineral category: Amphibole

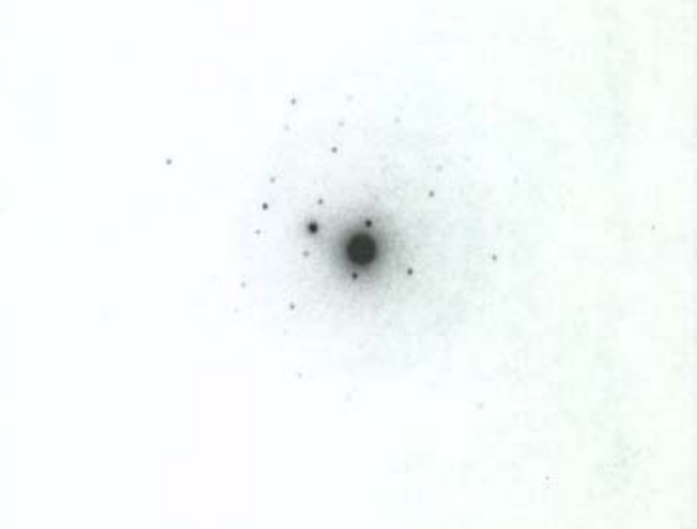
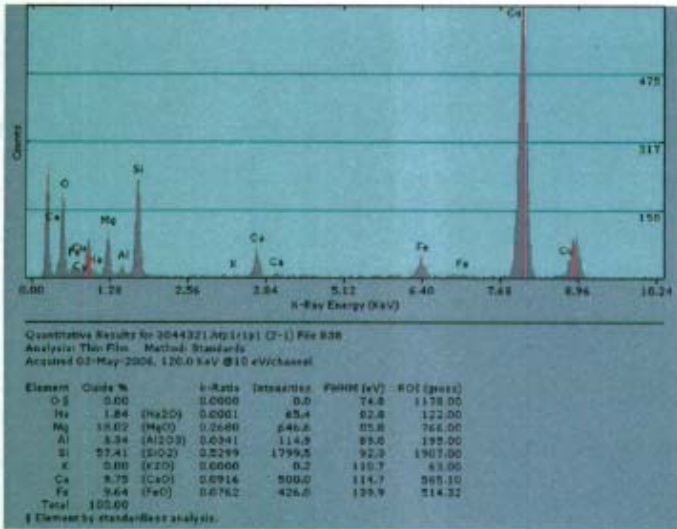
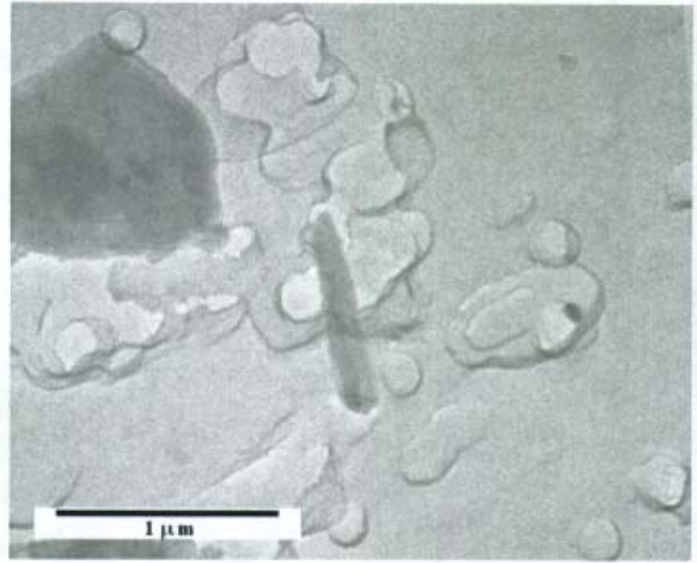
Zone 311

Phi 82.3

D1 5.2

D2 2.68

RJLG # 3044321 Field 1, Fiber 7
 CPS-S05-100804-FG2 -- Soil



L = 1 W = .15 AR = 7:1

Mineral category: Amphibole

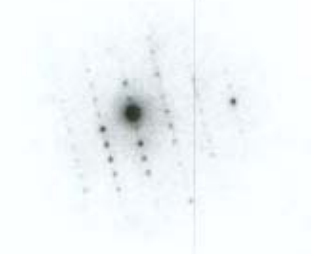
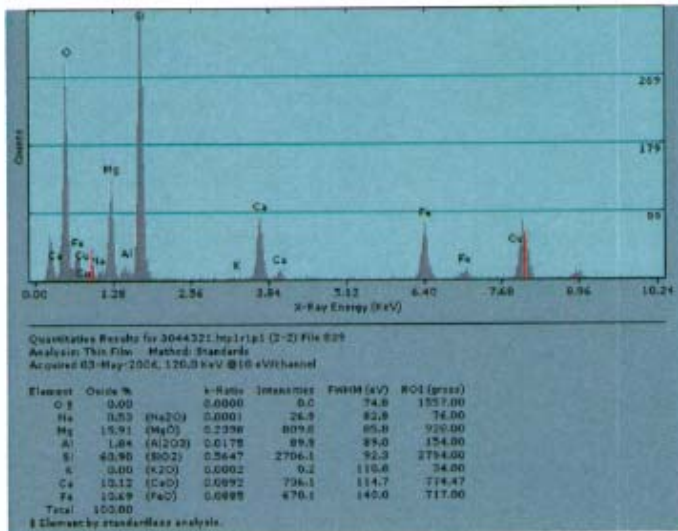
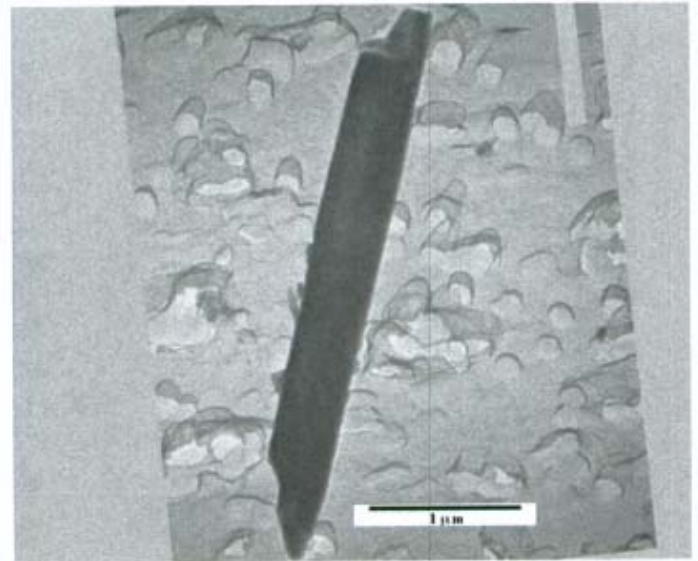
Zone 311

Phi 82.1

D1 5.23

D2 2.61

RJLG # 3044321 Field 2, Fiber 1
 CPS-S05-100804-FG2 -- Soil

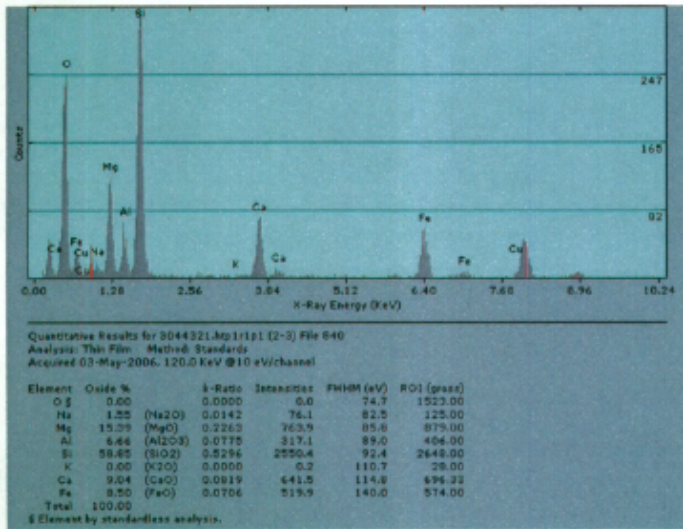
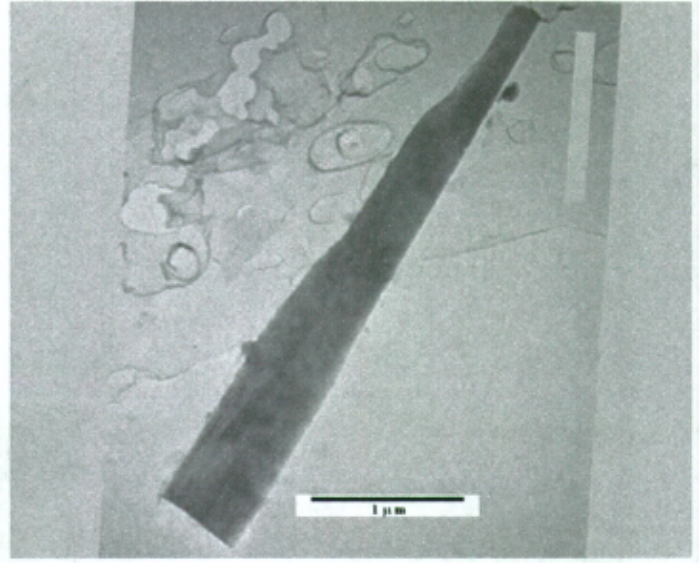
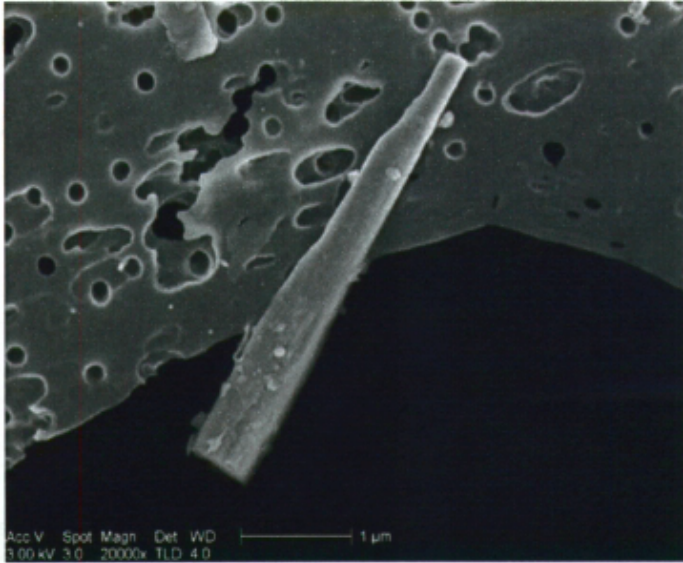


L = 4.75 W = .5 AR = 10:1
 Mineral category: Amphibole

Zone	10-1	D1	9.23
Phi	77.5	D2	4.07

RJLG # 3044321 Field 2, Fiber 2
 CPS-S05-100804-FG2 -- Soil

TEM and SEM Data



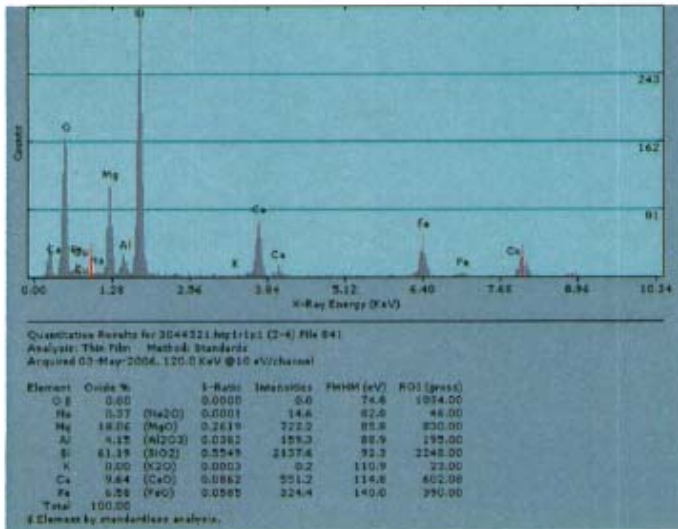
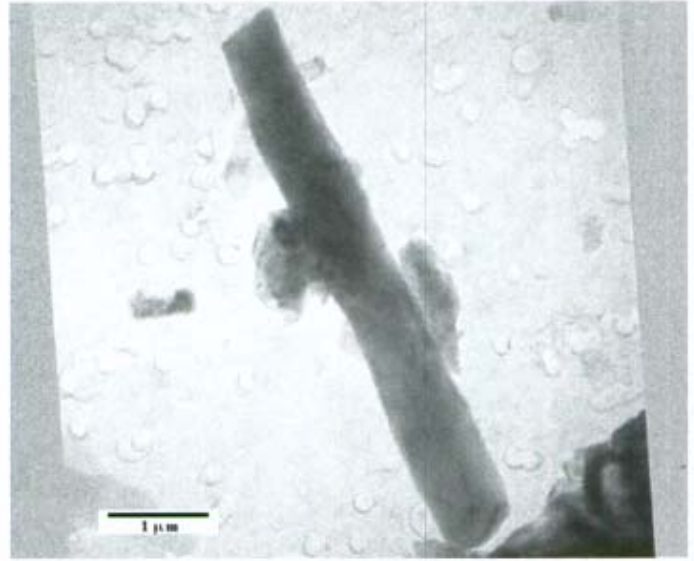
L = 5.1 W = .45 AR = 11:1

Mineral category: Amphibole

Zone 310 D1 5.23

Phi 82.3 D2 5.23

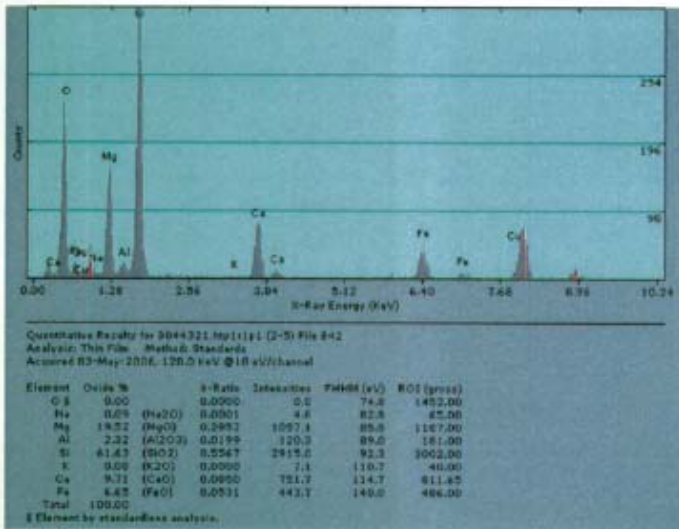
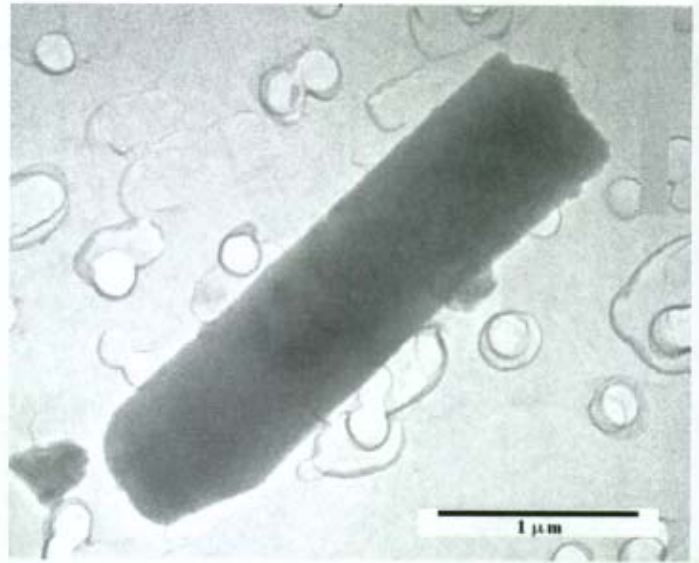
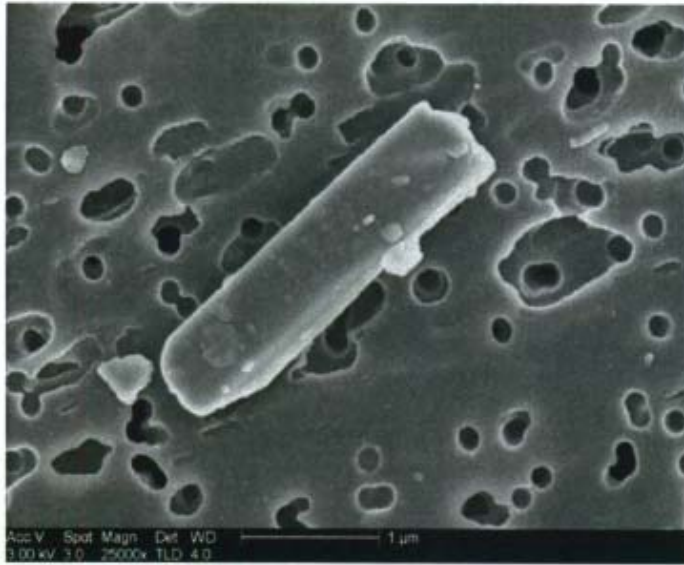
RJLG # 3044321 Field 2, Fiber 3
 CPS-S05-100804-FG2 -- Soil



L = 7.75 W = .75 AR = 10:1
 Mineral category: Amphibole

Zone	10-3	D1	9.28
Phi	83.6	D2	2.37

RJLG # 3044321 Field 2, Fiber 4
 CPS-S05-100804-FG2 -- Soil

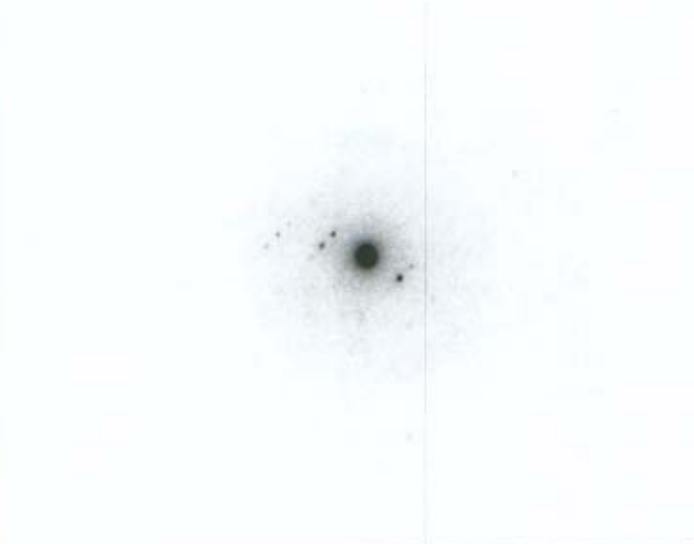
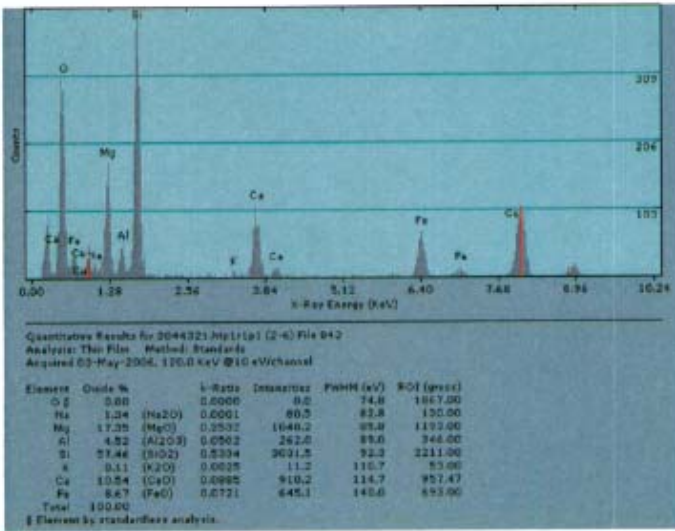
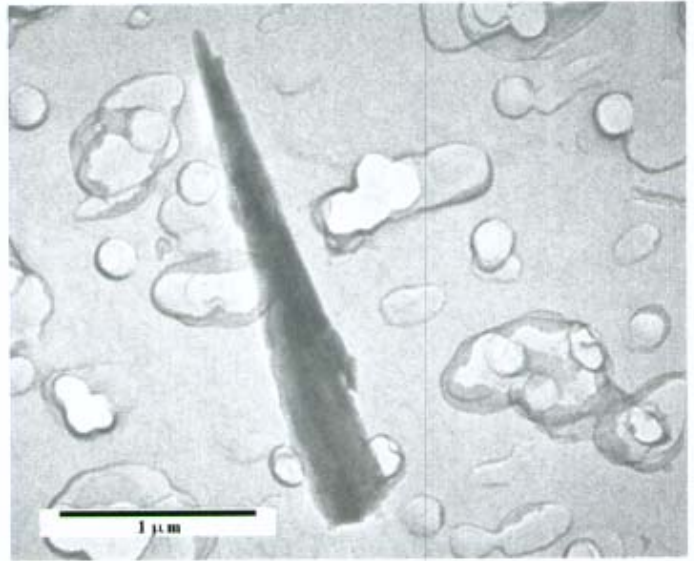
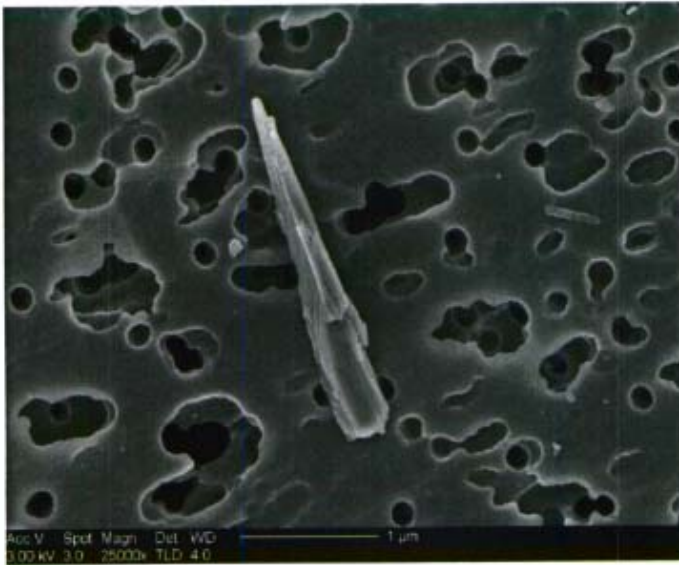


L = 3.5 W = .75 AR = 5:1
 Mineral category: Amphibole

Zone 113 D1 8.59
 Phi 89.9 D2 2.26

RJLG # 3044321 Field 2, Fiber 5
 CPS-S05-100804-FG2 -- Soil

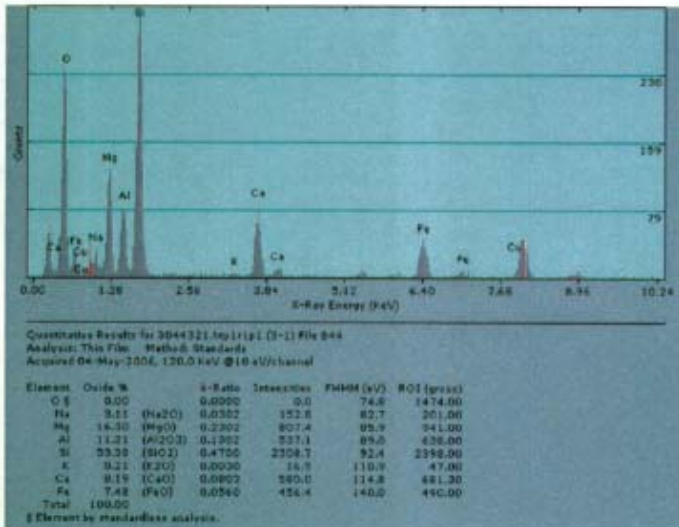
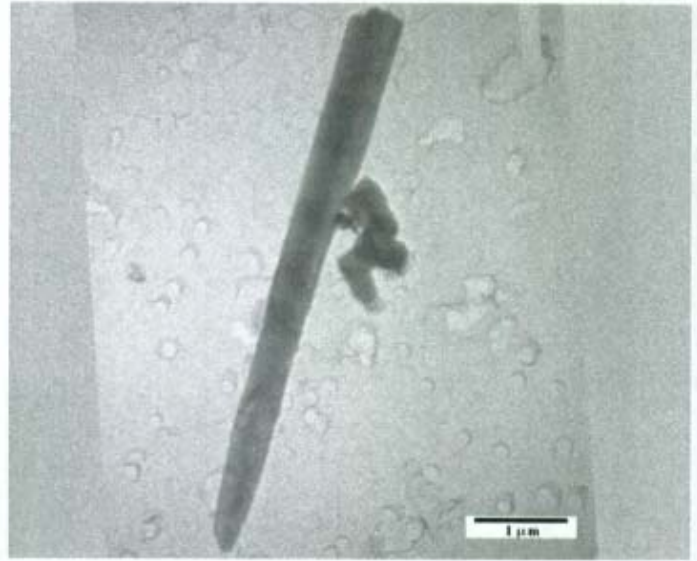
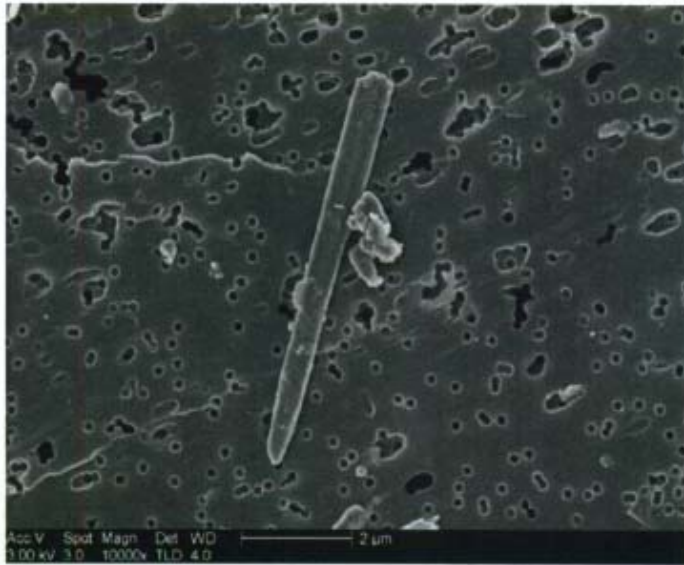
TEM and SEM Data



L = 2.52 W = .28 AR = 9:1
 Mineral category: Amphibole

Zone	None Found	D1	8.78
Phi	85	D2	3.56

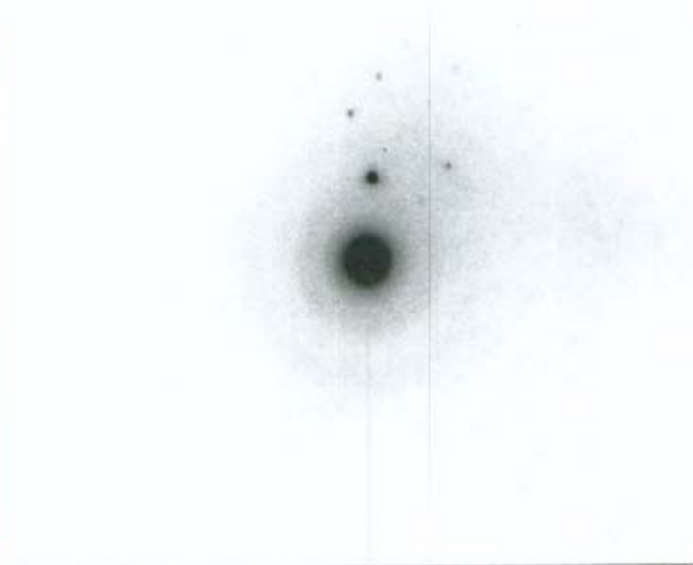
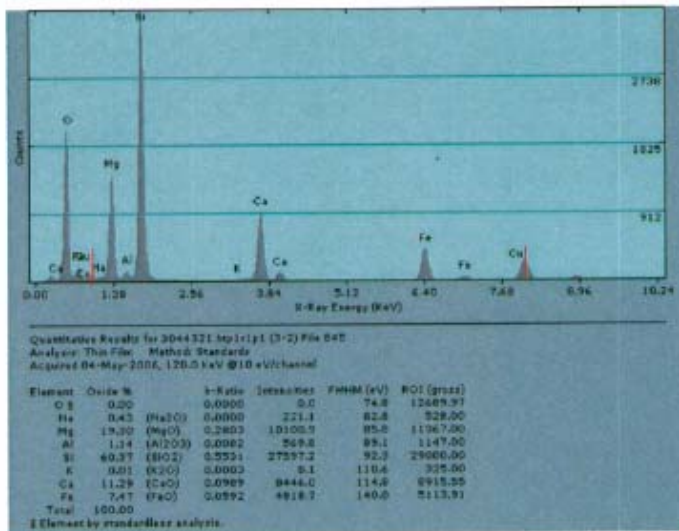
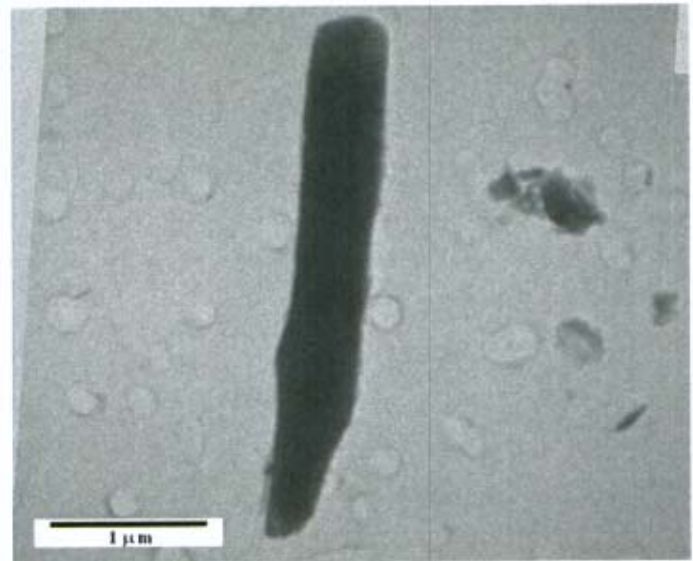
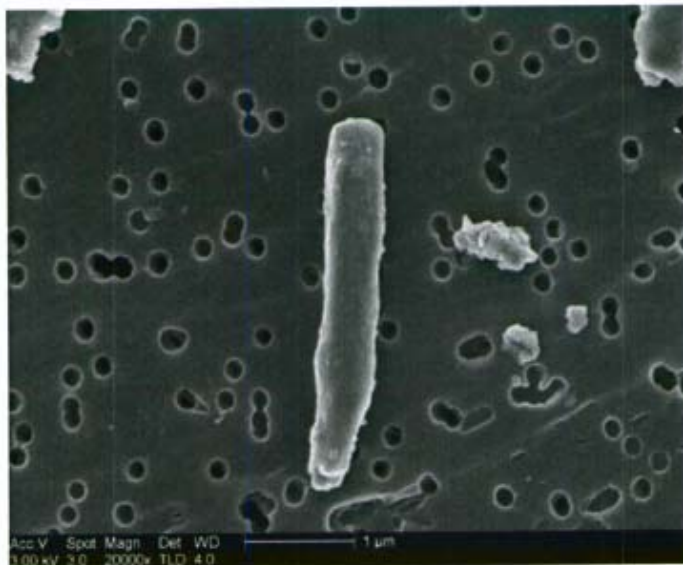
RJLG # 3044321 Field 2, Fiber 6
 CPS-S05-100804-FG2 -- Soil



L = 8.5 W = .5 AR = 17:1
 Mineral category: Amphibole

Zone	101	D1	9.16
Phi	74.7	D2	5.08

RJLG # 3044321 Field 3, Fiber 1
 CPS-S05-100804-FG2 -- Soil

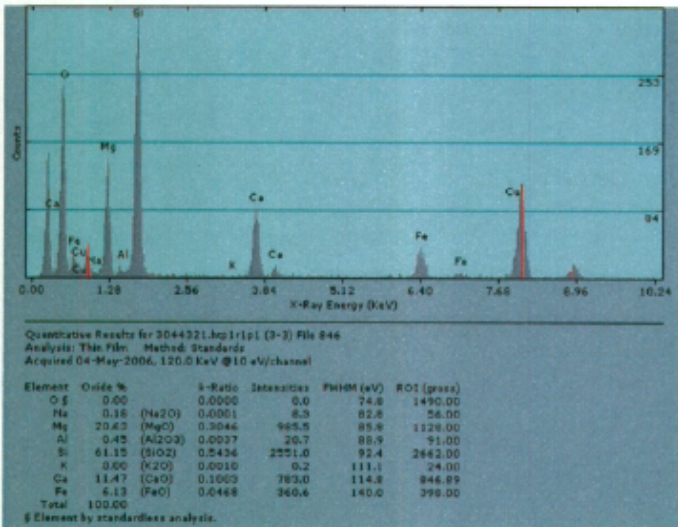
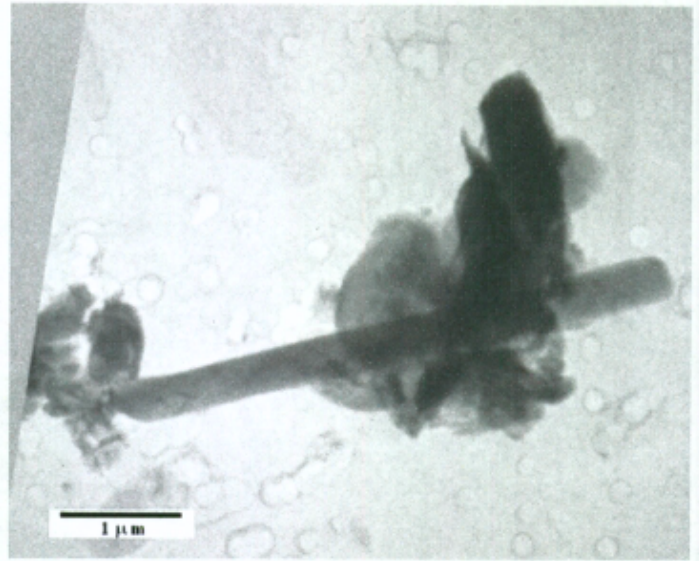
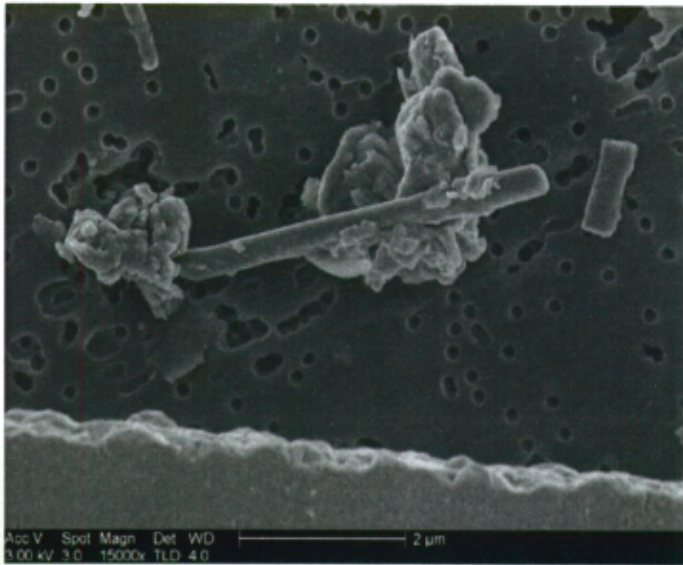


L = 3.75 W = .4 AR = 9:1
 Mineral category: Amphibole

Zone 133 D1 3.04
 Phi 78 D2 2.47

RJLG # 3044321 Field 3, Fiber 2
 CPS-S05-100804-FG2 -- Soil

TEM and SEM Data

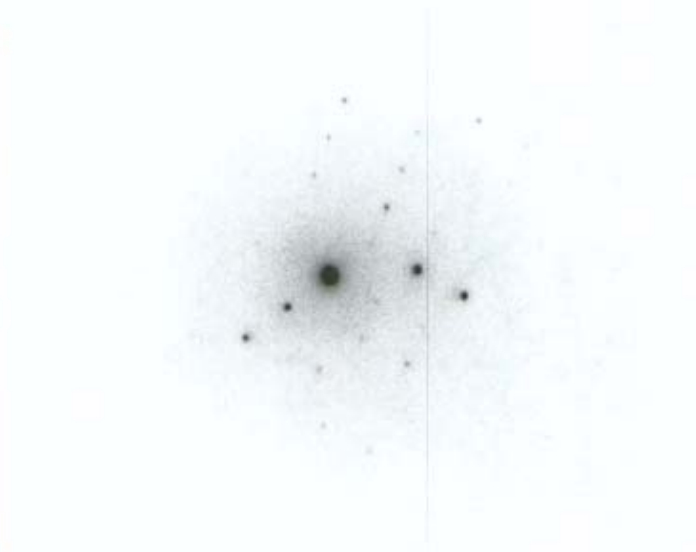
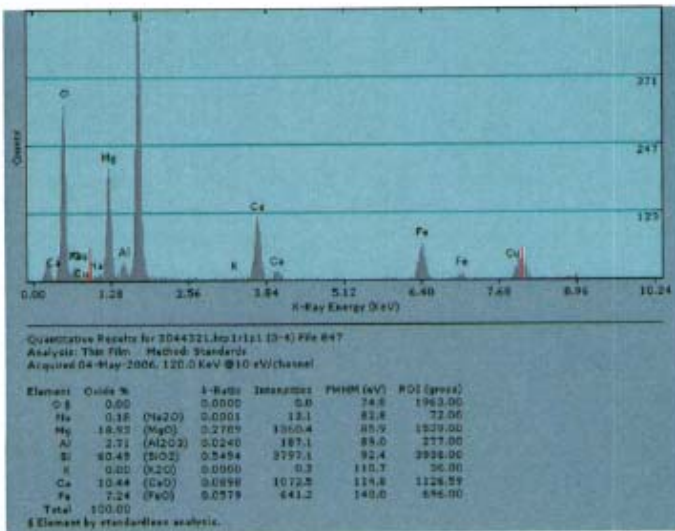
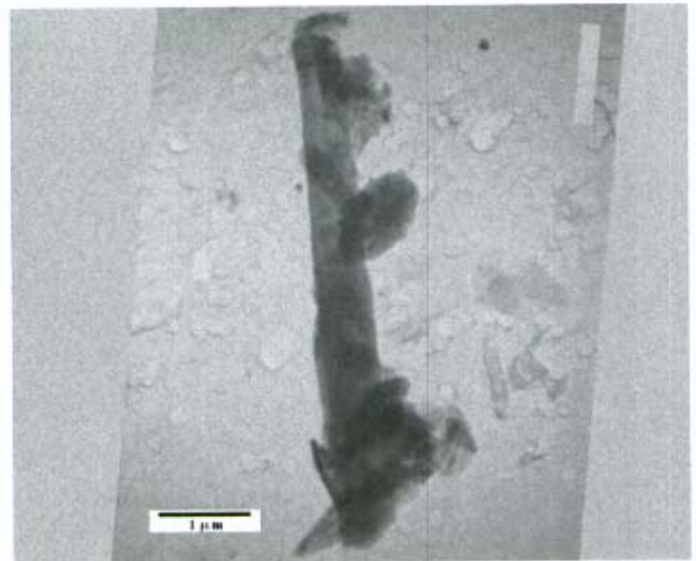
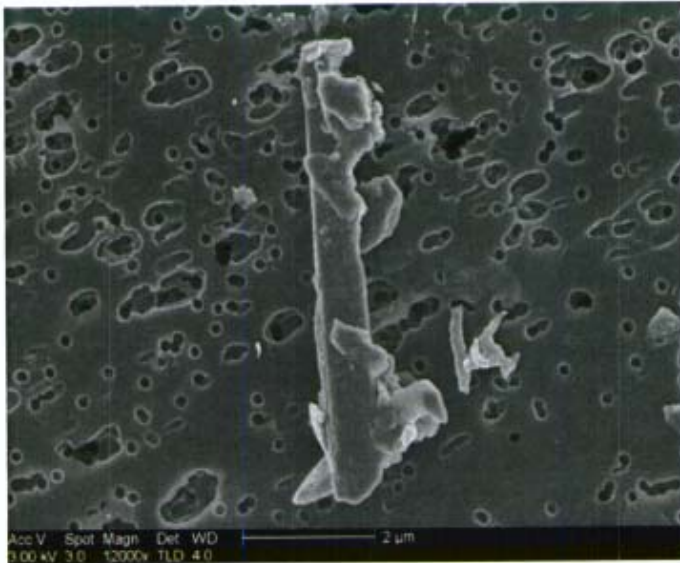


L = 2.5 W = .35 AR = 7:1

Mineral category: Amphibole

Zone	213	D1	4.96
Phi	89.1	D2	3.39

RJLG # 3044321 Field 3, Fiber 3
 CPS-S05-100804-FG2 -- Soil

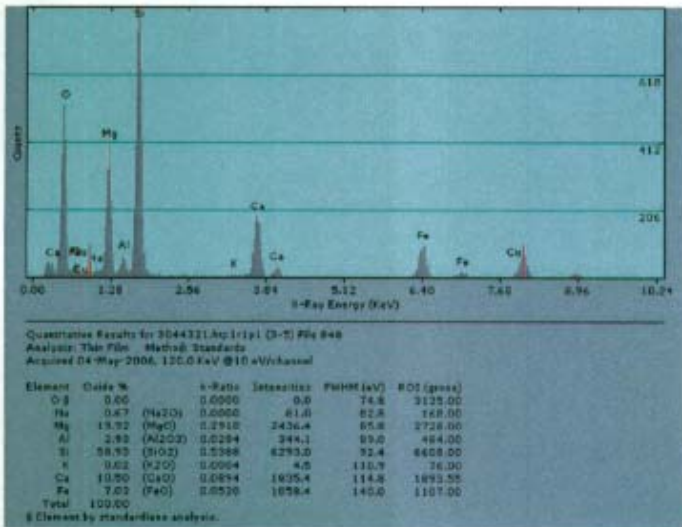
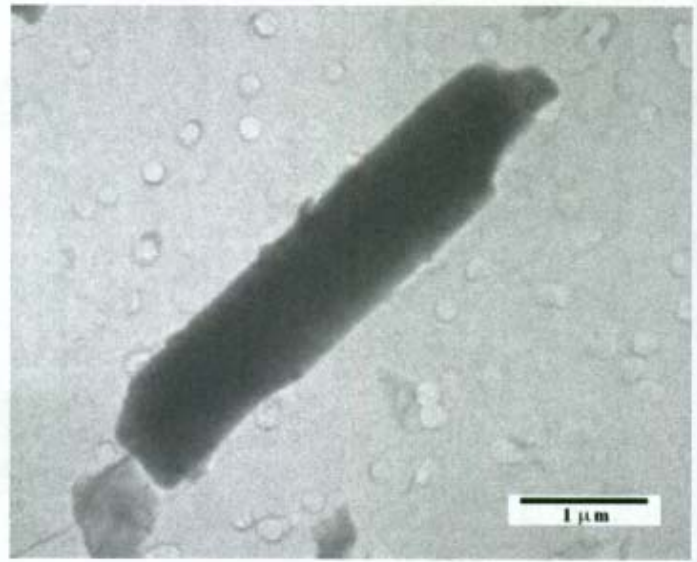


L = 6.5 W = .7 AR = 9:1

Mineral category: Amphibole

SAED not measured

RJLG # 3044321 Field 3, Fiber 4
 CPS-S05-100804-FG2 -- Soil



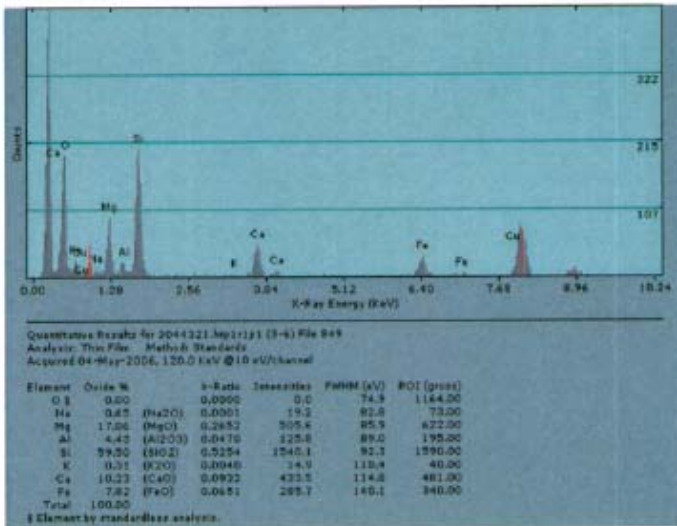
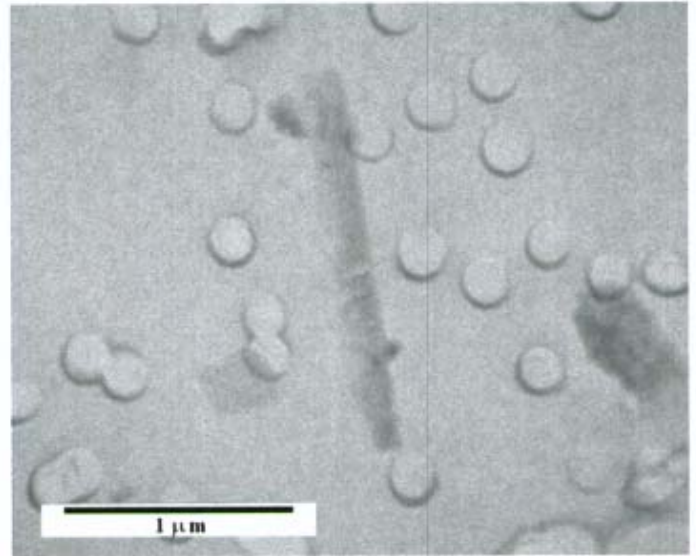
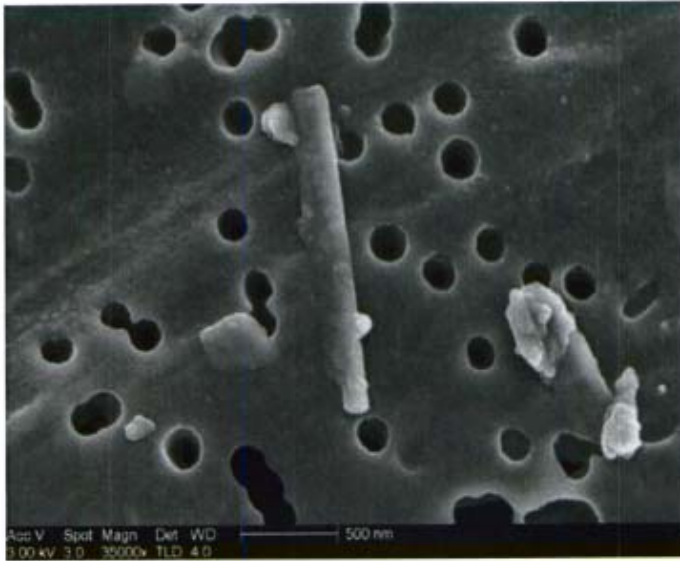
L = 5.25 W = 1.15 AR = 5:1

Mineral category: Amphibole

Zone	201	D1	9.22
Phi	84.6	D2	2.35

RJLG # 3044321 Field 3, Fiber 5
 CPS-S05-100804-FG2 -- Soil

TEM and SEM Data



L = 1.75 W = .2 AR = 9:1

Mineral category: Clay

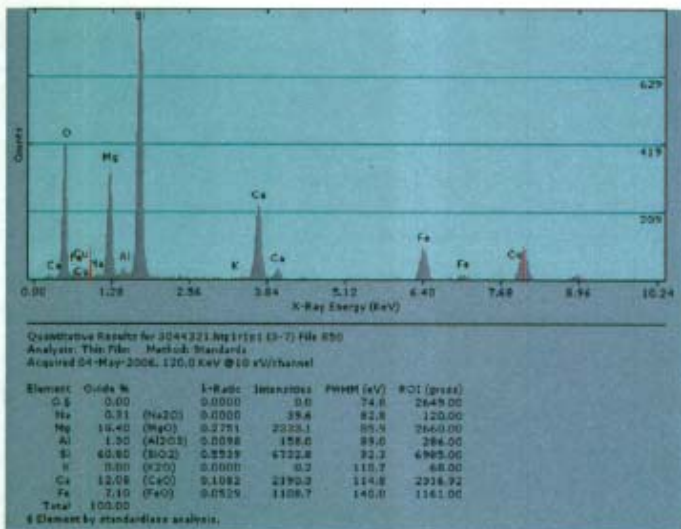
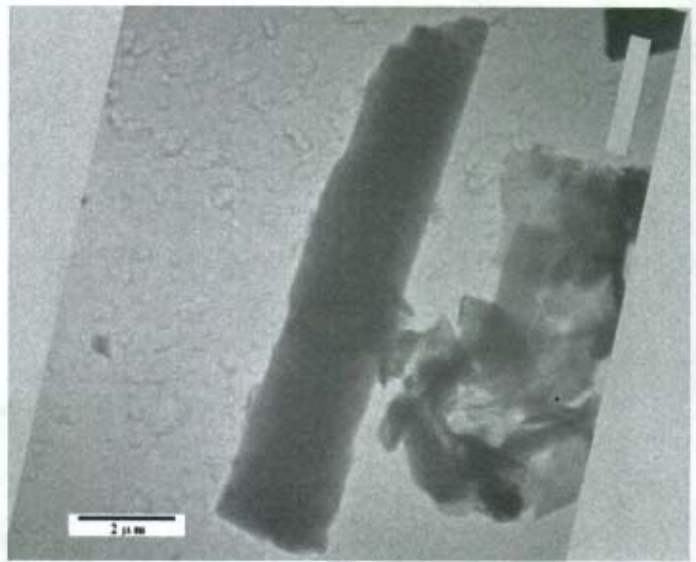
Zone 153

D1 4.05

Phi 90

D2 3.49

RJLG # 3044321 Field 3, Fiber 6
 CPS-S05-100804-FG2 -- Soil



L = 14 W = 2.5 AR = 6:1

Mineral category: Amphibole

Zone 100

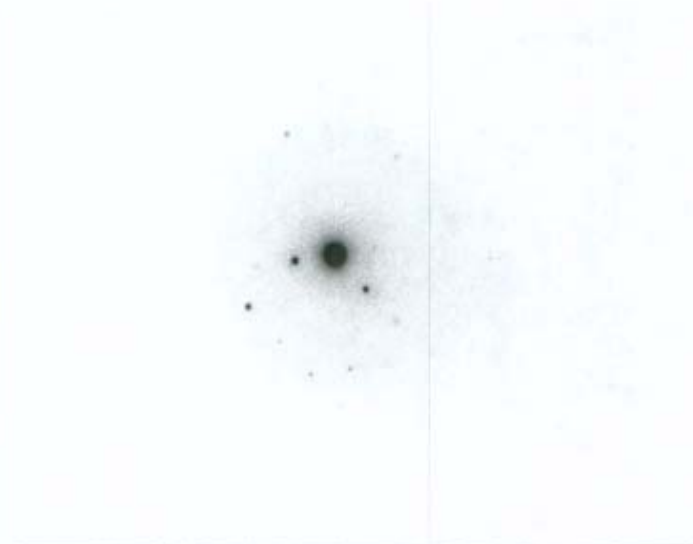
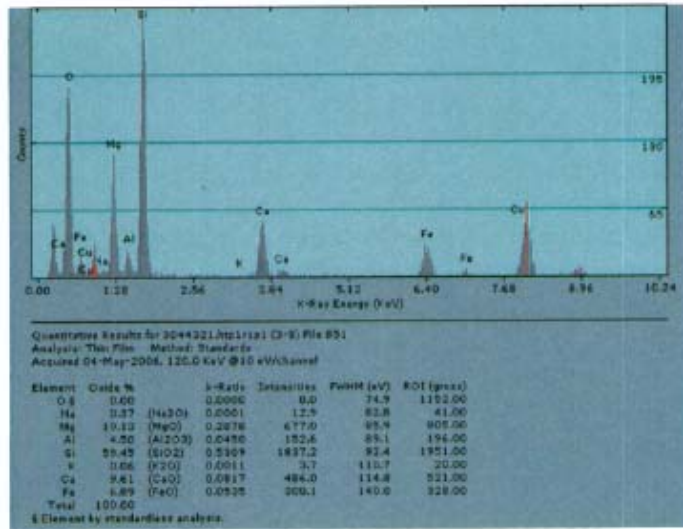
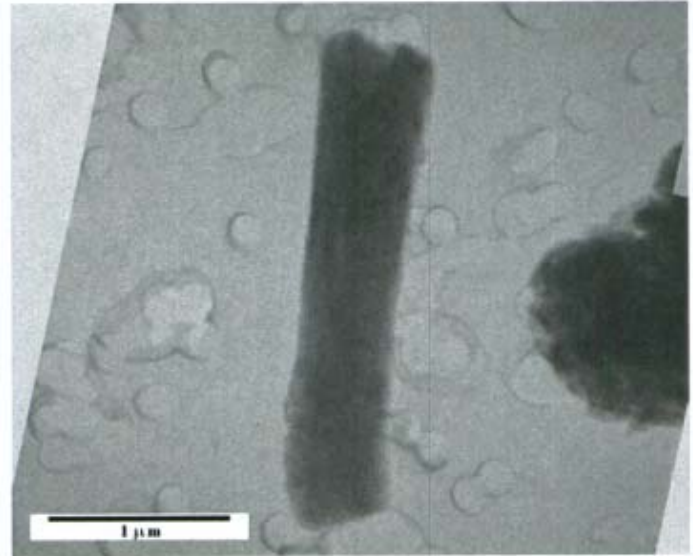
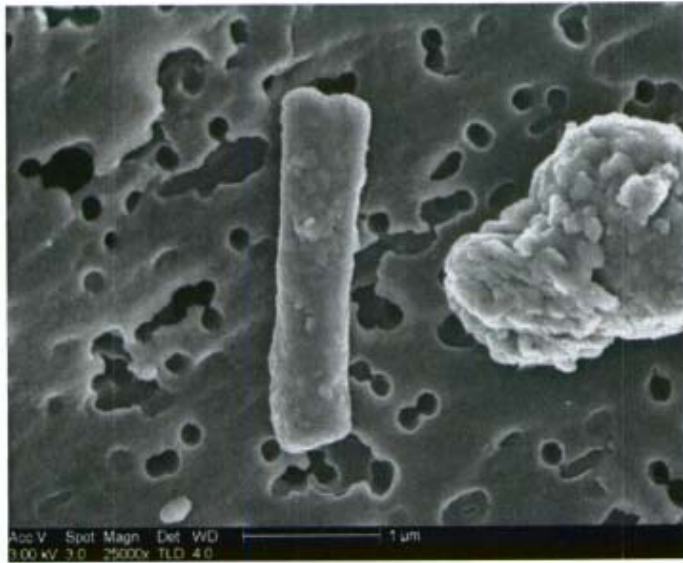
D1 9.32

Phi 89.9

D2 5.26

RJLG # 3044321 Field 3, Fiber 7
 CPS-S05-100804-FG2 -- Soil

TEM and SEM Data



L = 3.1 W = .5 AR = 6:1

Mineral category: Amphibole

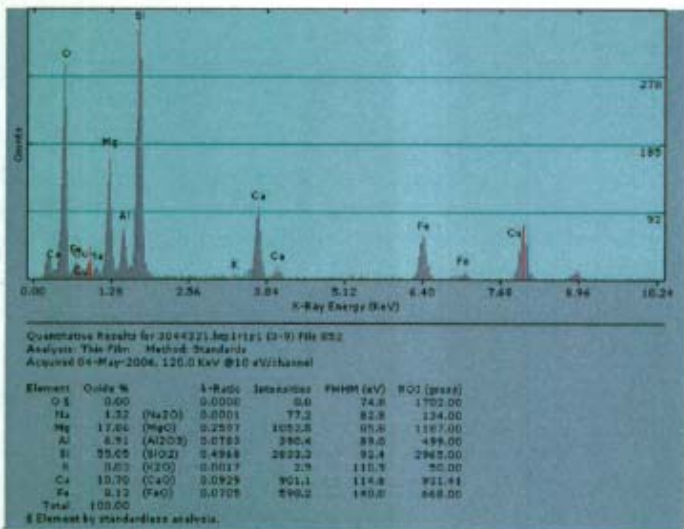
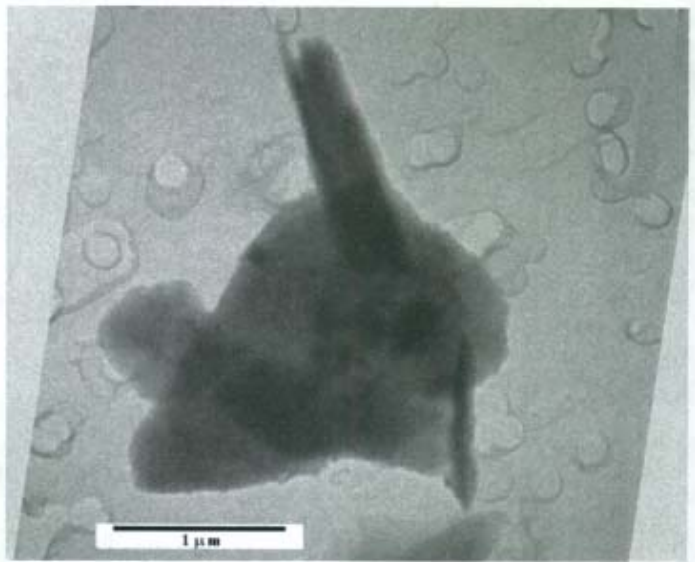
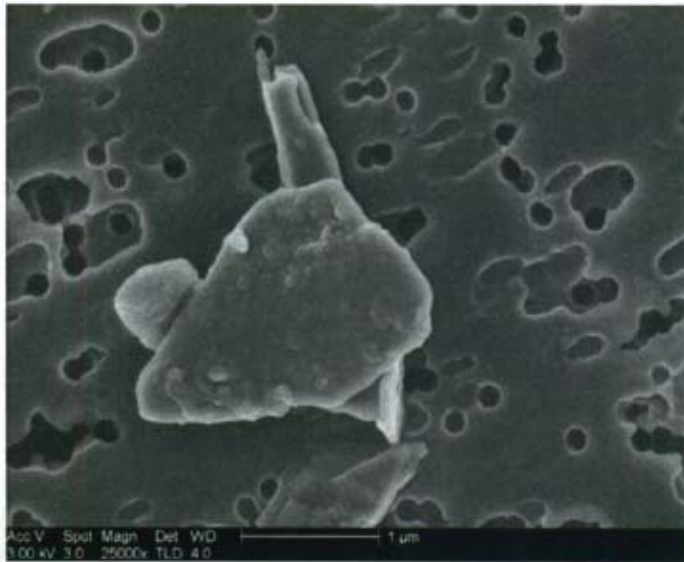
Zone 15-2

D1 3.44

Phi 69.5

D2 3.42

RJLG # 3044321 Field 3, Fiber 8
 CPS-S05-100804-FG2 -- Soil



L = 1.5 W = .3 AR = 5:1

Mineral category: Amphibole

Zone 114

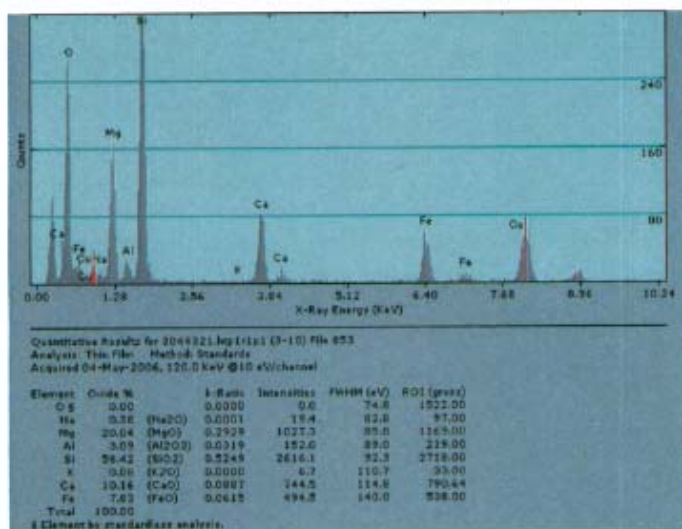
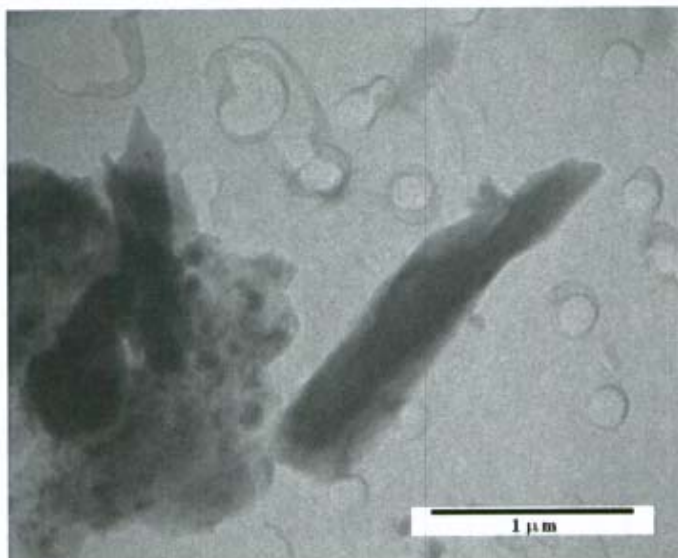
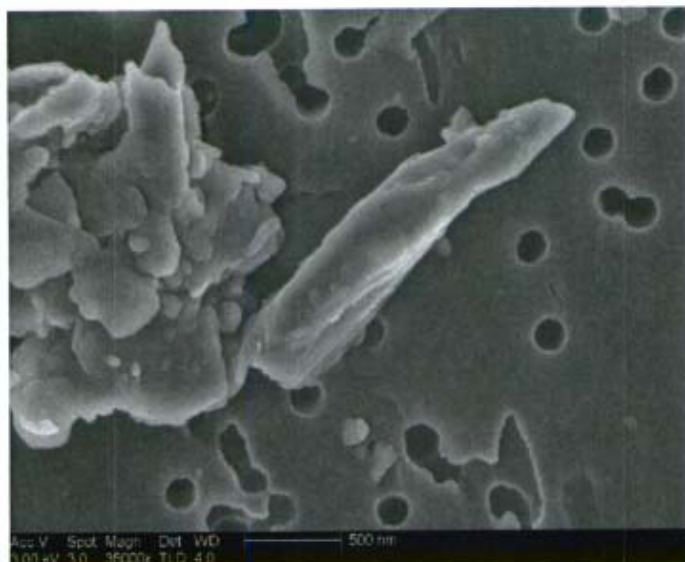
D1 8.71

Phi 82.7

D2 3.92

RJLG # 3044321 Field 3, Fiber 9
 CPS-S05-100804-FG2 -- Soil

TEM and SEM Data

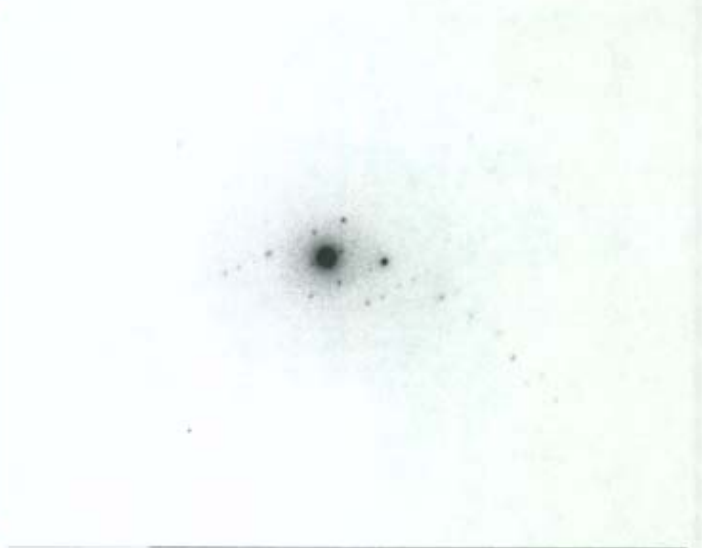
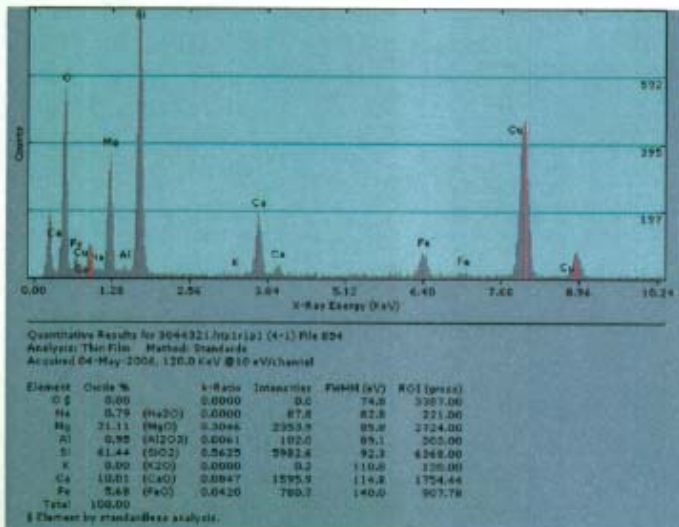
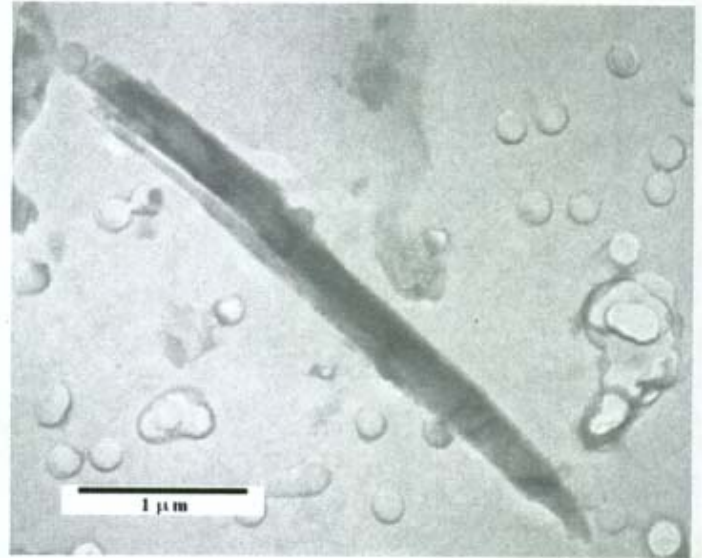


L = 2.4 W = .4 AR = 6:1

Mineral category: Amphibole

Zone 101 D1 9.19
Phi 75.1 D2 4.8

RJLG # 3044321 Field 3, Fiber 10
CPS-S05-100804-FG2 -- Soil

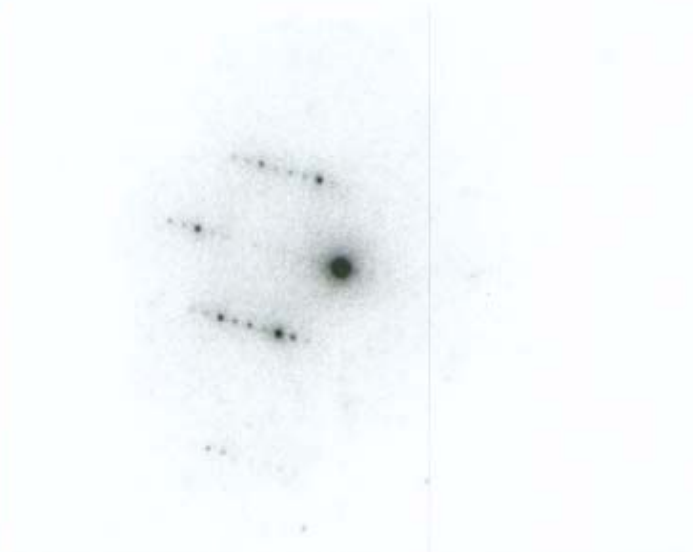
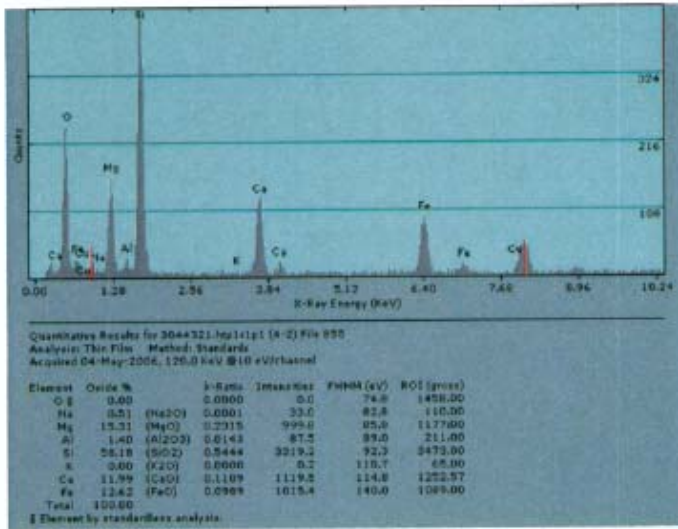
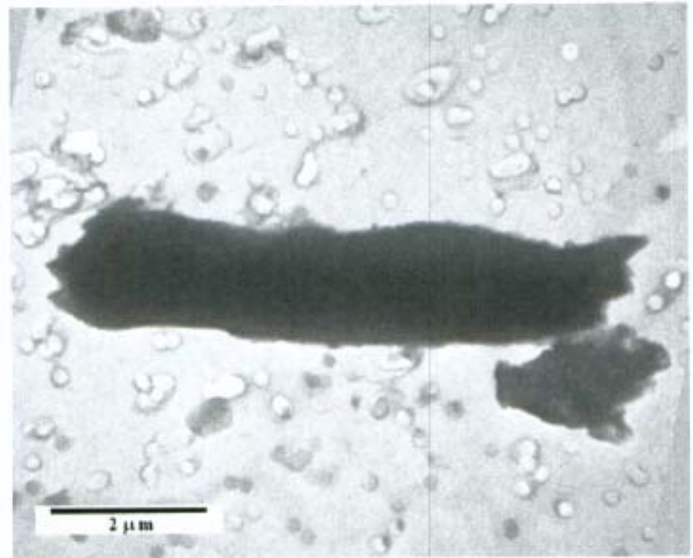


L = 5.1 W = .35 AR = 15:1
 Mineral category: Amphibole

Zone 112 D1 8.51
 Phi 87.5 D2 4.81

RJLG # 3044321 Field 4, Fiber 1
 CPS-S05-100804-FG2 -- Soil

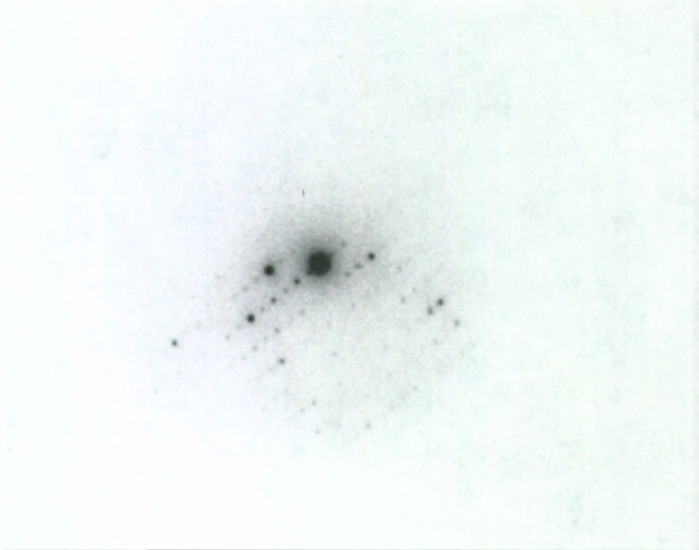
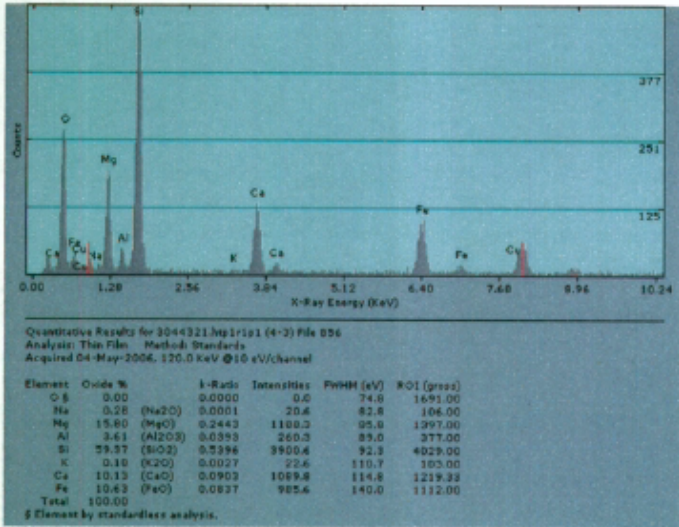
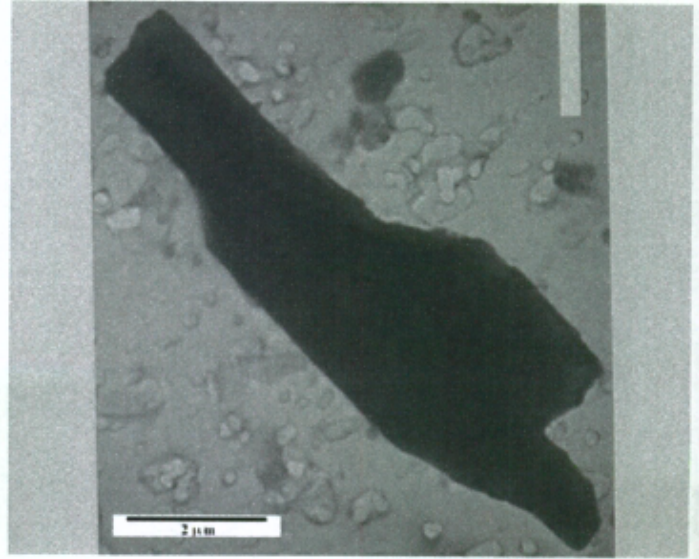
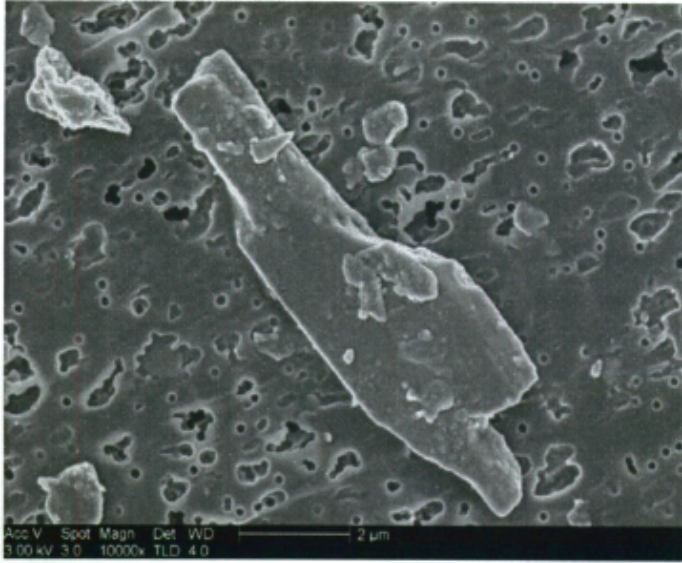
TEM and SEM Data



L = 8.25 W = 1.5 AR = 6:1
 Mineral category: Amphibole

Zone 104 D1 9.22
 Phi 89.2 D2 1.78

RJLG # 3044321 Field 4, Fiber 2
 CPS-S05-100804-FG2 -- Soil

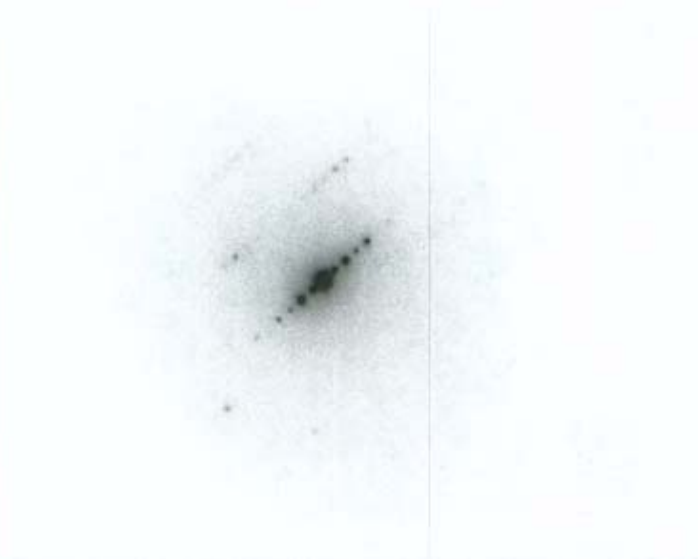
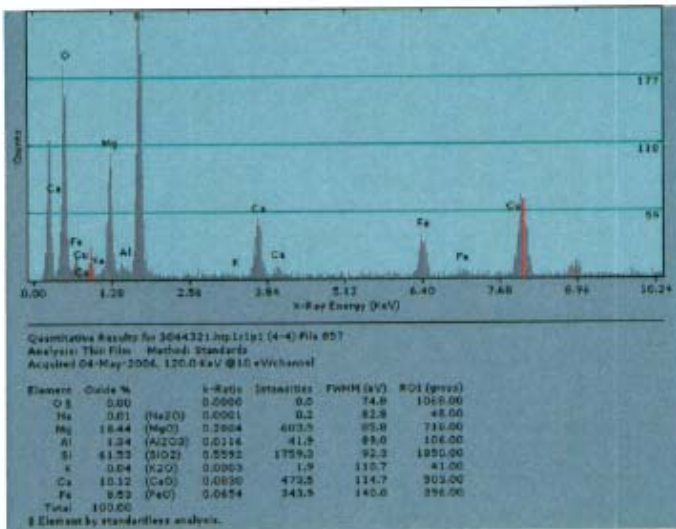
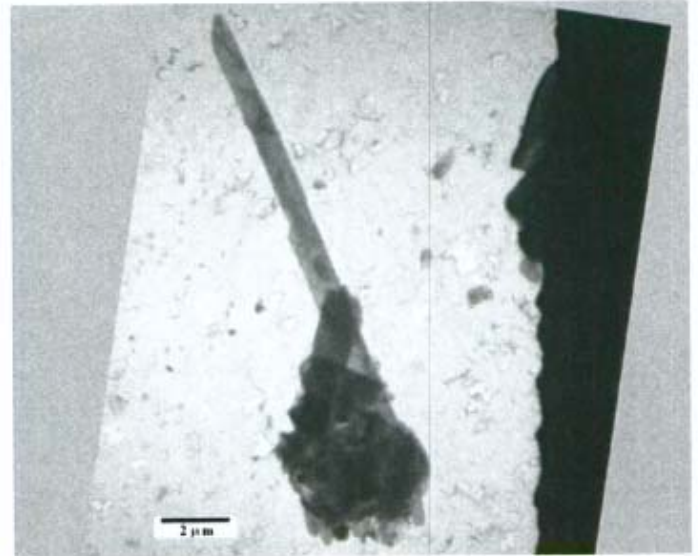
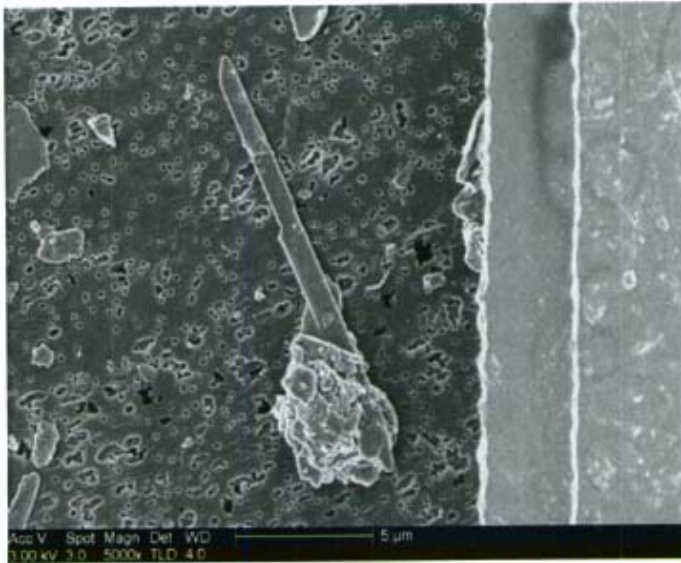


L = 11.25 W = 2.5 AR = 5:1

Mineral category: Amphibole

Zone	100	D1	9.35
Phi	89.5	D2	5.3

RJLG # 3044321 Field 4, Fiber 3
 CPS-S05-100804-FG2 -- Soil



L = 15.2 W = 1.25 AR = 12:1

Mineral category: Amphibole

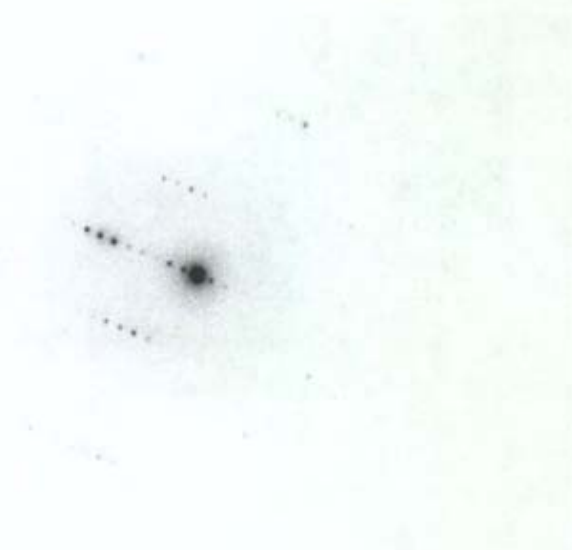
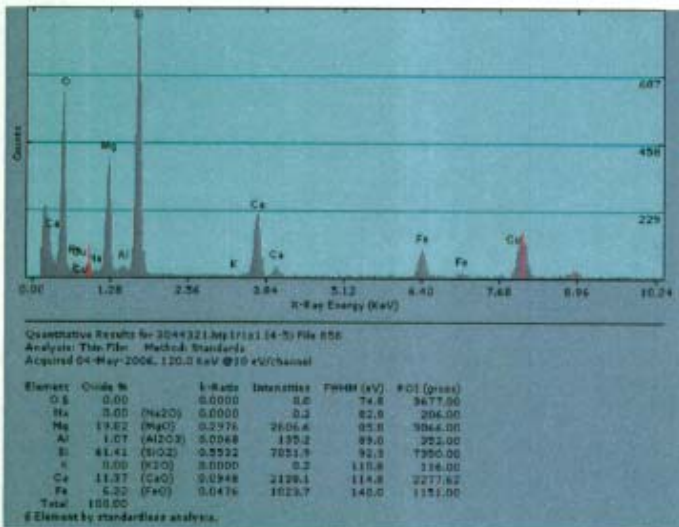
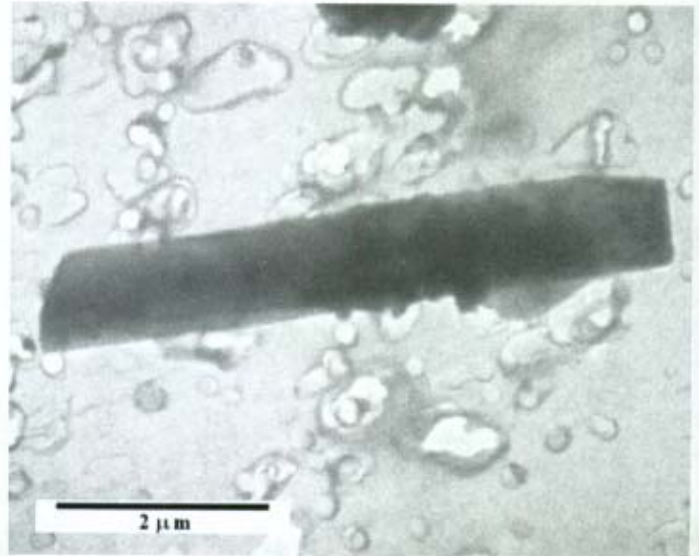
Zone 105

D1 9.39

Phi 84

D2 1.84

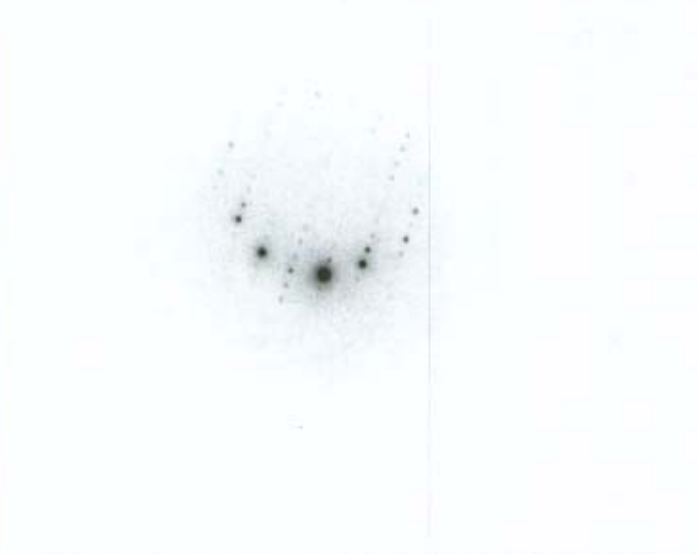
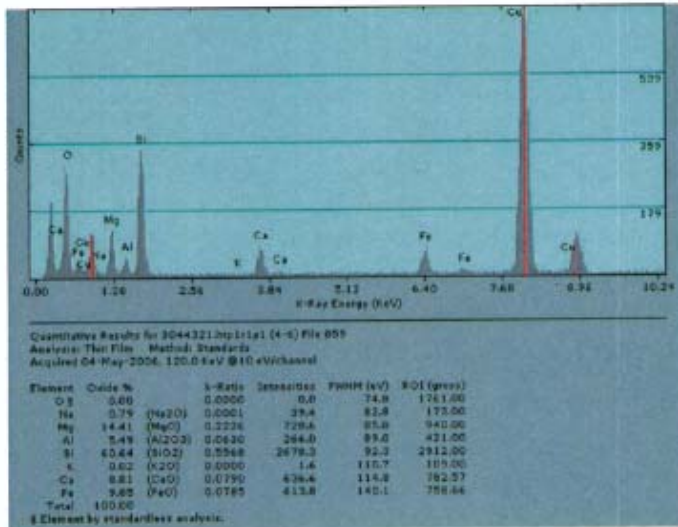
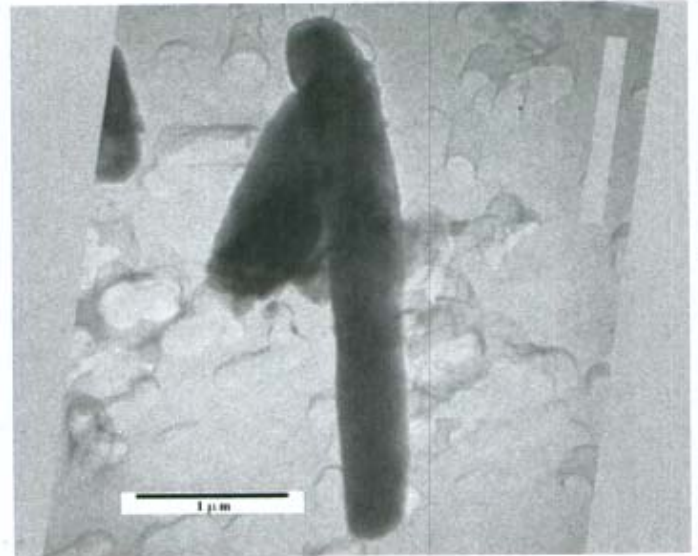
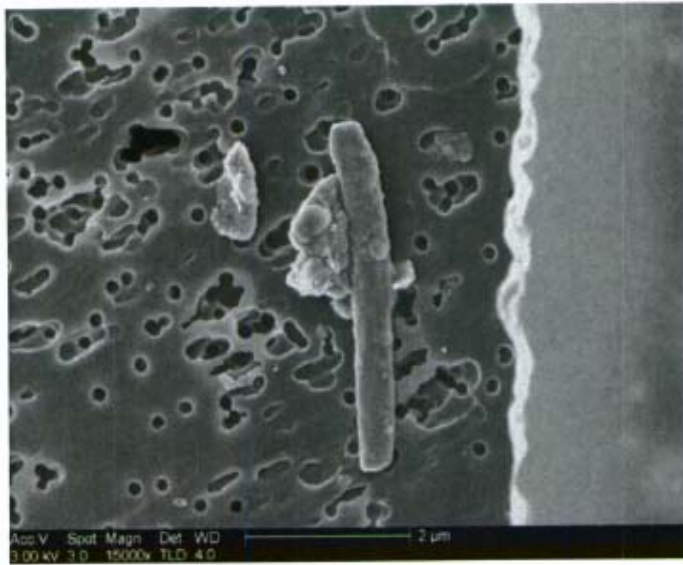
RJLG # 3044321 Field 4, Fiber 4
 CPS-S05-100804-FG2 -- Soil



L = 6.95 W = 1.1 AR = 6:1
 Mineral category: Amphibole

Zone 20-3 D1 9.19
 Phi 84.1 D2 1.8

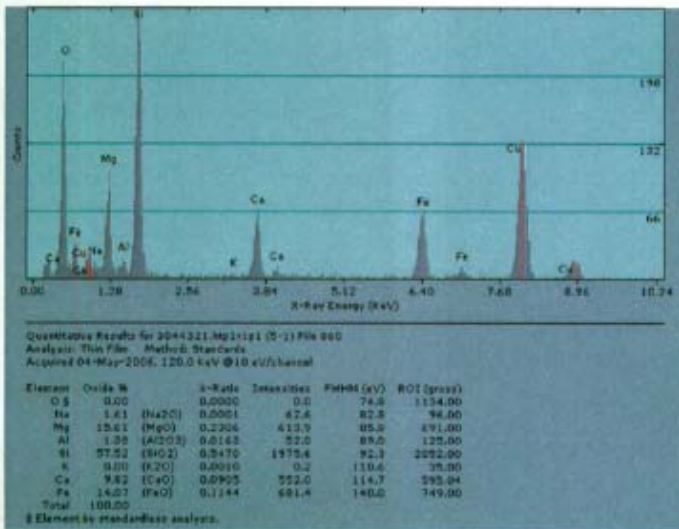
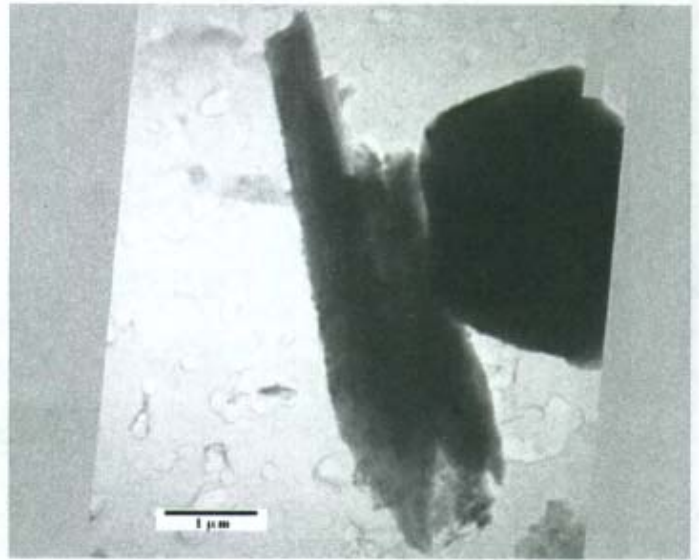
RJLG # 3044321 Field 4, Fiber 5
 CPS-S05-100804-FG2 -- Soil



L = 5.1 W = .45 AR = 11:1
 Mineral category: Amphibole

Zone 10-1 D1 9.21
 Phi 77.3 D2 4.09

RJLG # 3044321 Field 4, Fiber 6
 CPS-S05-100804-FG2 -- Soil

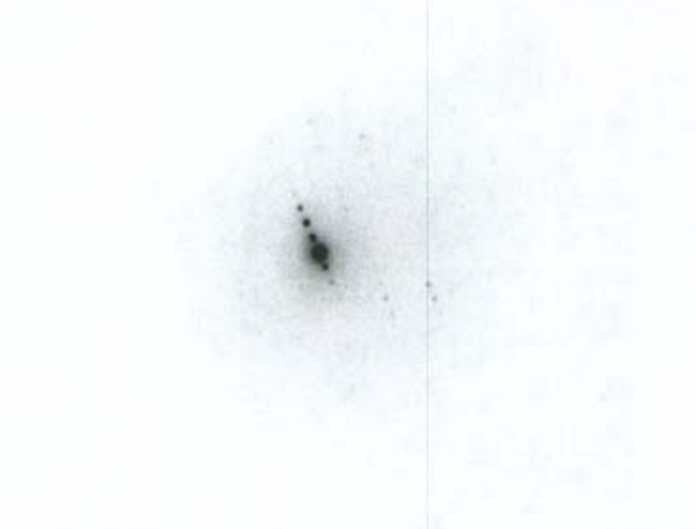
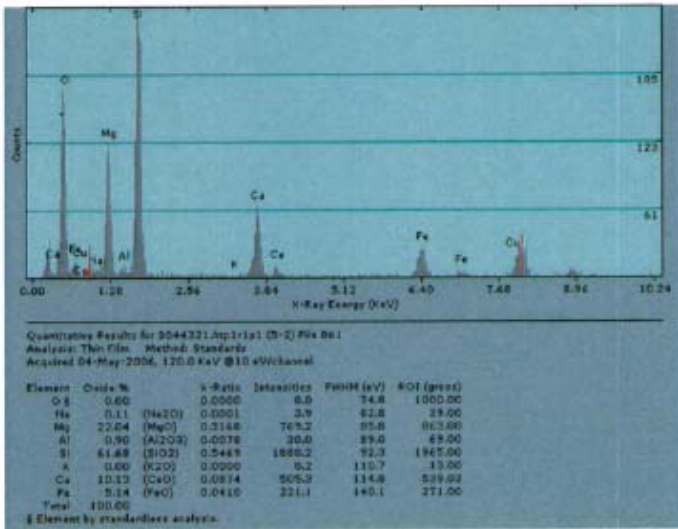
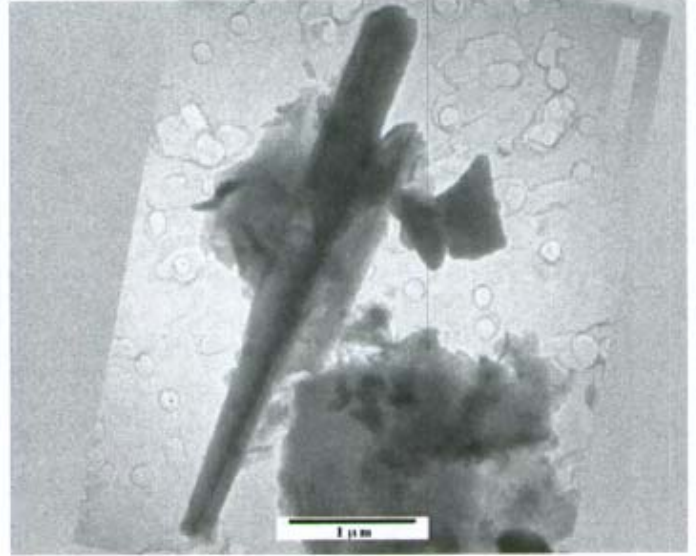
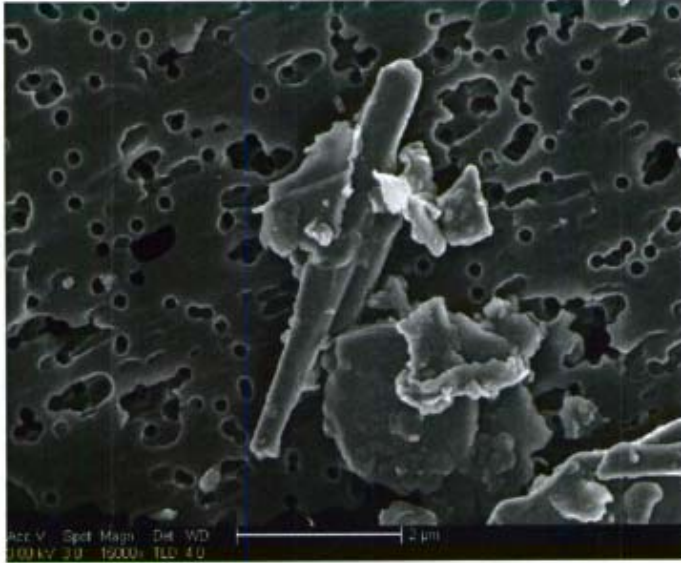


SAED not measured

L = 6.25 W = .45 AR = 14:1

Mineral category: Pyroxene

RJLG # 3044321 Field 5, Fiber 1
 CPS-S05-100804-FG2 -- Soil



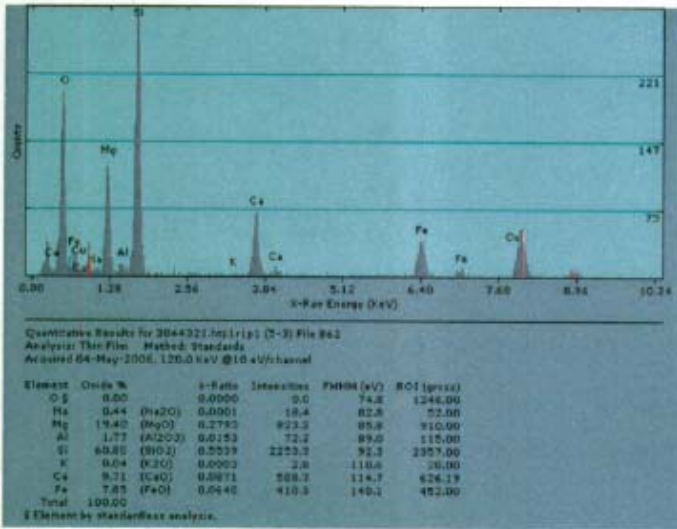
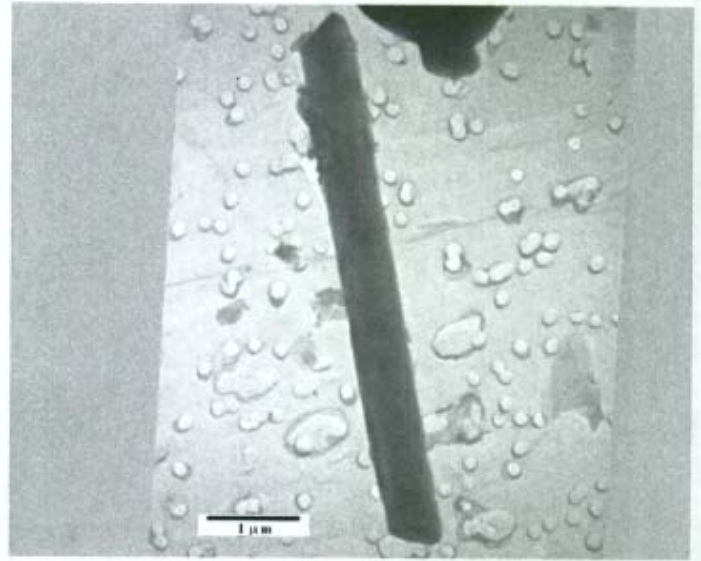
SAED not measured

L = 5.5 W = .5 AR = 11:1

Mineral category: Amphibole

RJLG # 3044321 Field 5, Fiber 2
 CPS-S05-100804-FG2 -- Soil

TEM and SEM Data

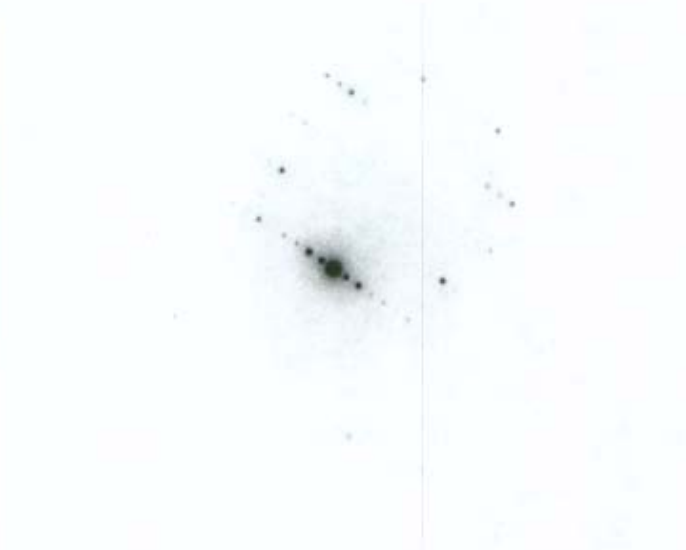
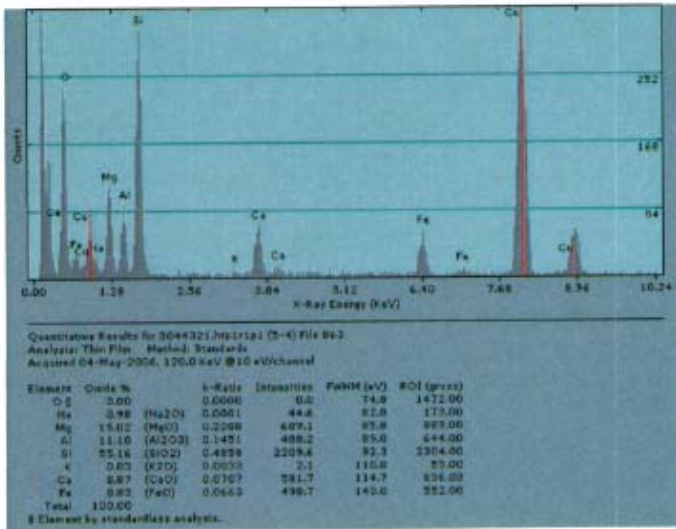
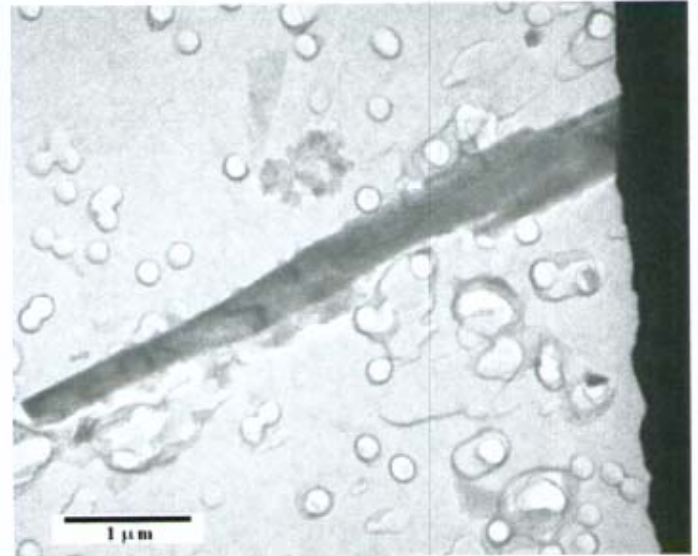
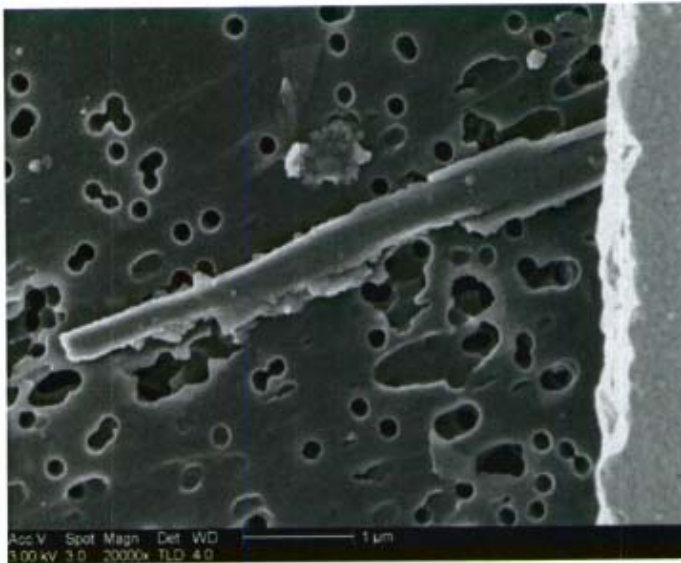


L = 8.25 W = .75 AR = 11:1

Mineral category: Amphibole

Zone	100	D1	9.28
Phi	89	D2	5.21

RJLG # 3044321 Field 5, Fiber 3
 CPS-S05-100804-FG2 -- Soil



L = 6 W = .45 AR = 13:1

Mineral category: Amphibole

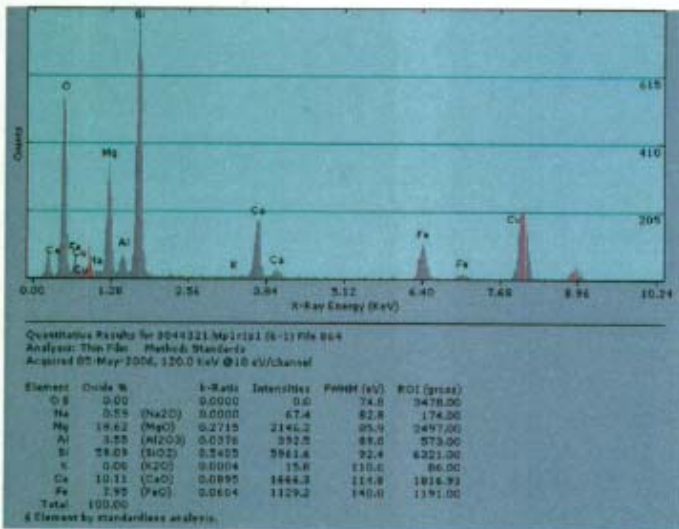
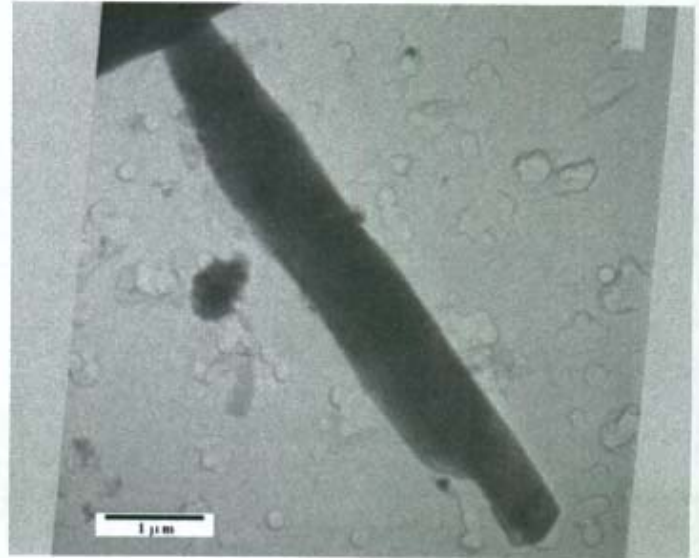
Zone 201

D1 9.21

Phi 80

D2 2.62

RJLG # 3044321 Field 5, Fiber 4
 CPS-S05-100804-FG2 -- Soil



L = 7.5 W = 1 AR = 8:1

Mineral category: Amphibole

Zone 20-1

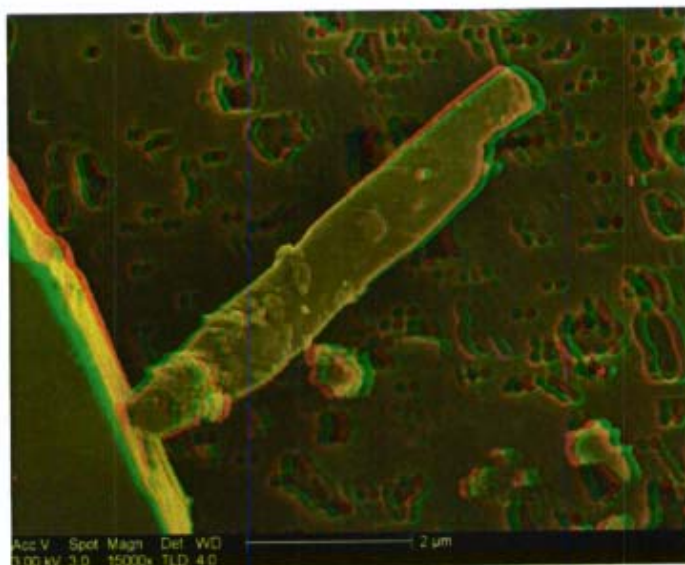
D1 9.25

Phi 84.1

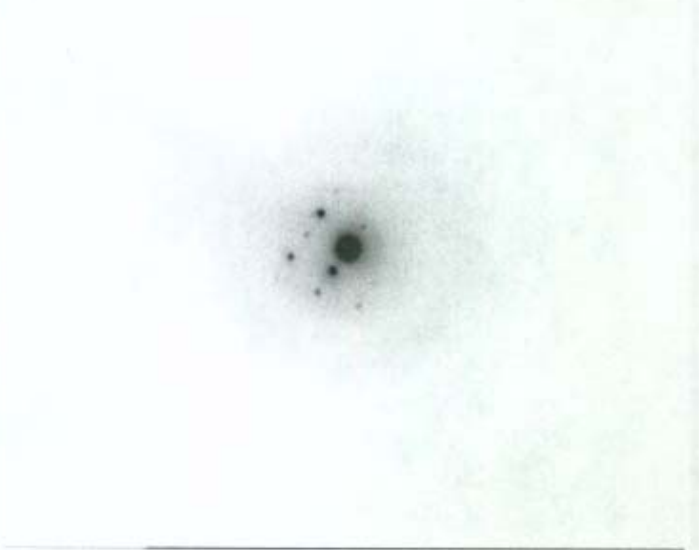
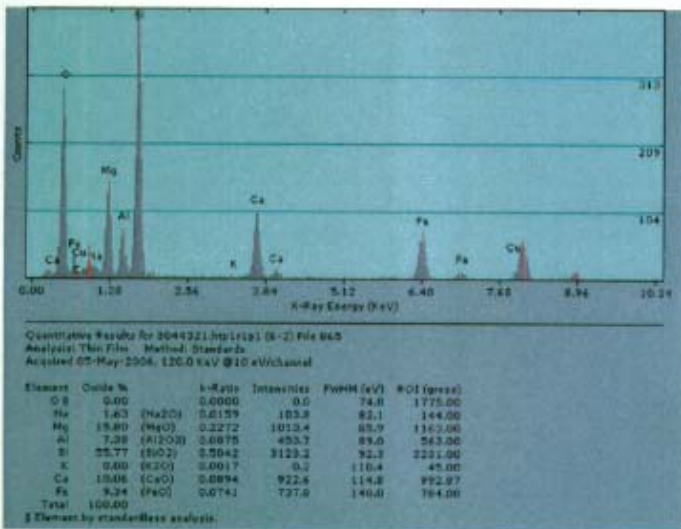
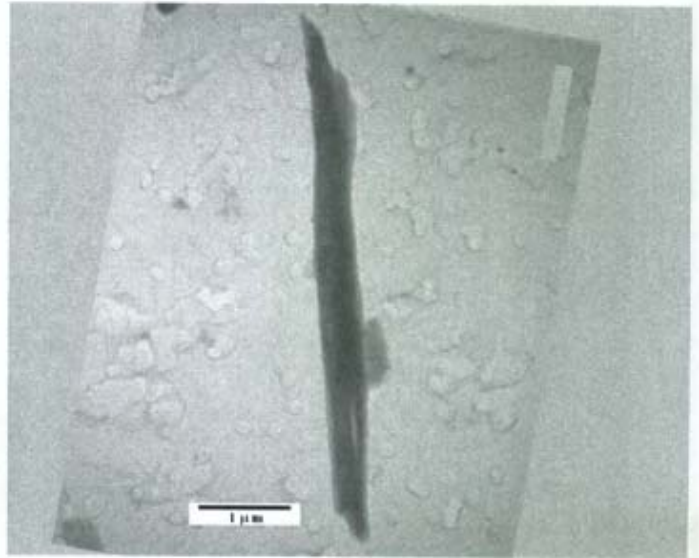
D2 2.35

RJLG # 3044321 Field 6, Fiber 1
CPS-S05-100804-FG2 -- Soil

TEM and SEM Data



RJLG # 3044321 Field 6, Fiber 1
CPS-S05-100804-FG2 -- Soil



L = 8 W = .5 AR = 16:1

Mineral category: Amphibole

Zone 130

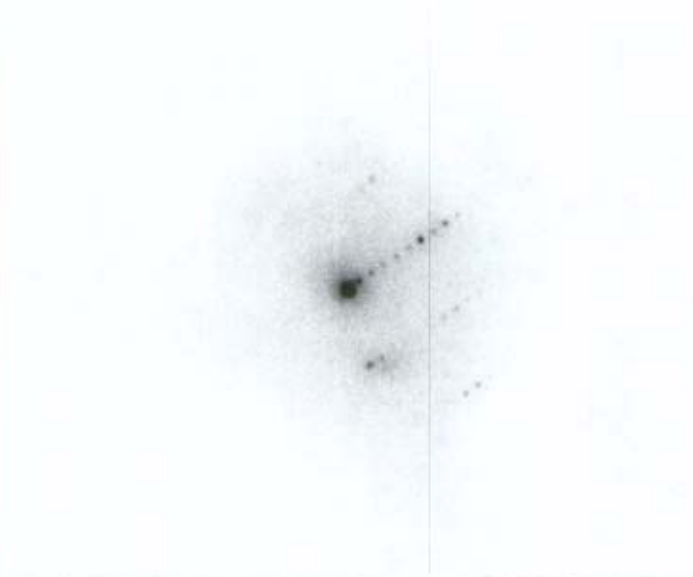
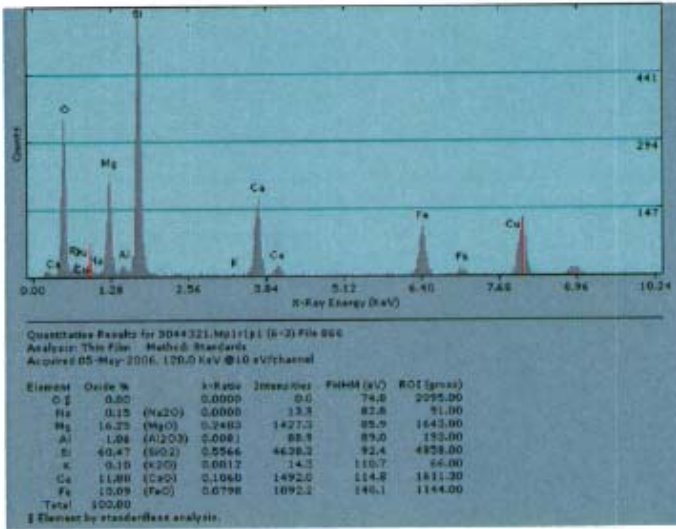
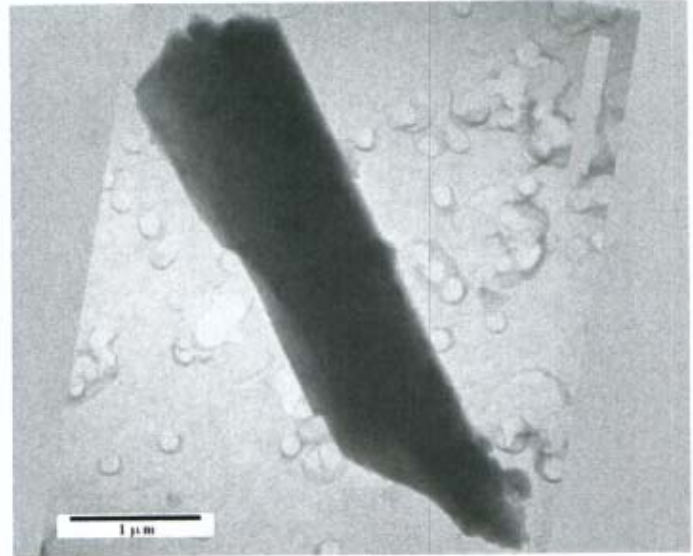
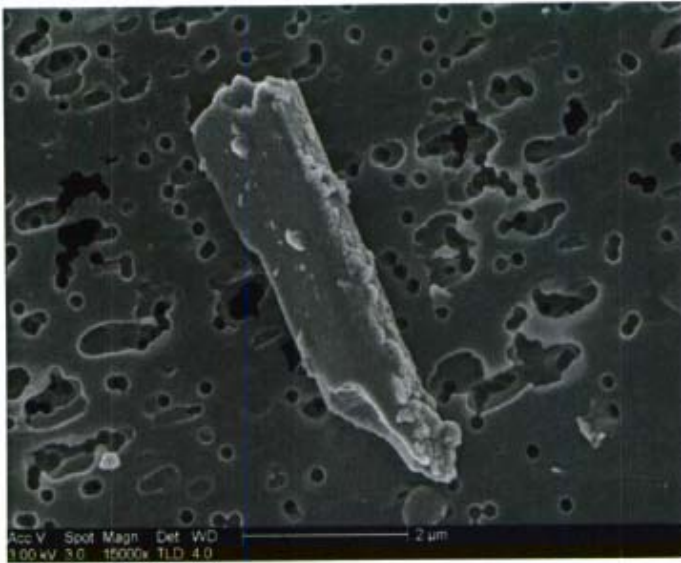
D1 5.24

Phi 73.7

D2 3.16

RJLG # 3044321 Field 6, Fiber 2
 CPS-S05-100804-FG2 -- Soil

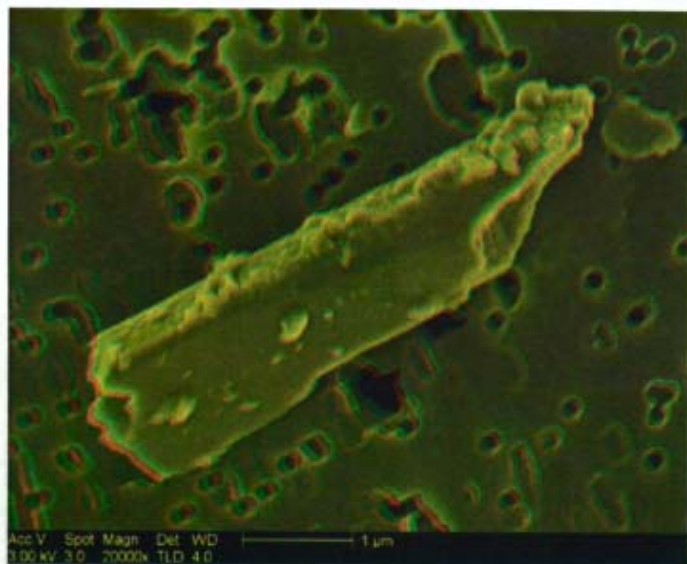
TEM and SEM Data



L = 6.5 W = 1.35 AR = 5:1
 Mineral category: Amphibole

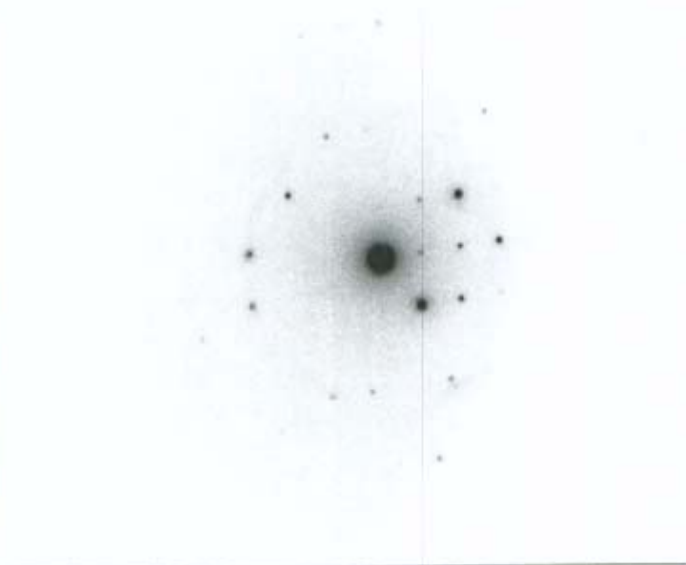
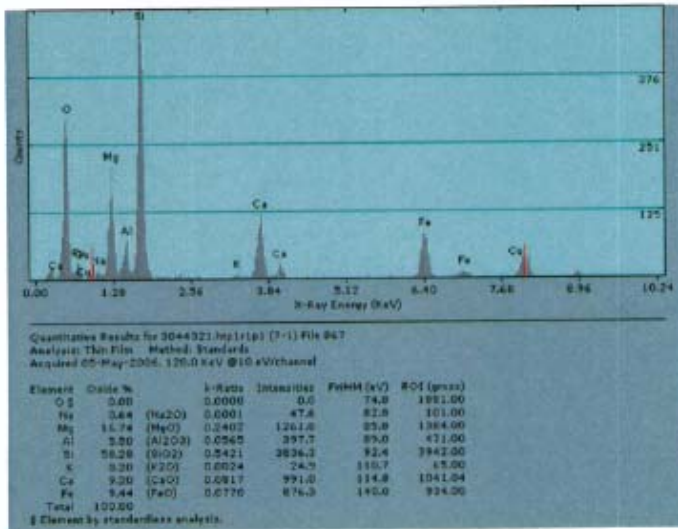
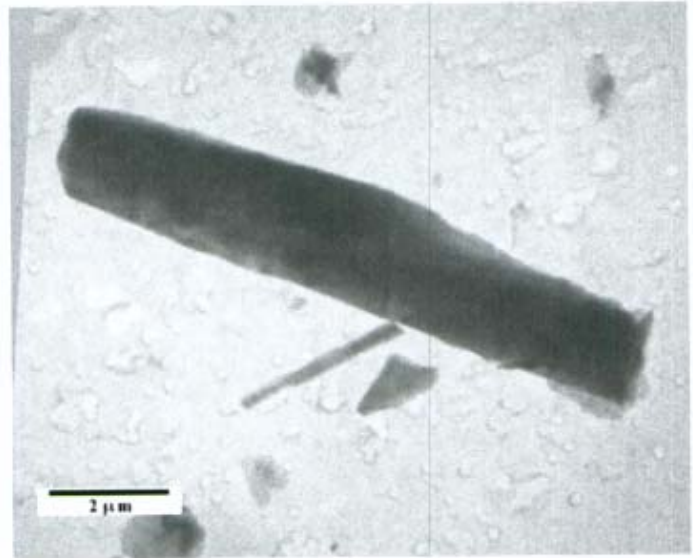
Zone 105 D1 9.28
 Phi 83.7 D2 1.8

RJLG # 3044321 Field 6, Fiber 3
 CPS-S05-100804-FG2 -- Soil



RJLG # 3044321 Field 6, Fiber 3
CPS-S05-100804-FG2 -- Soil

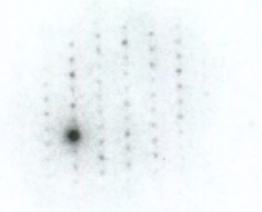
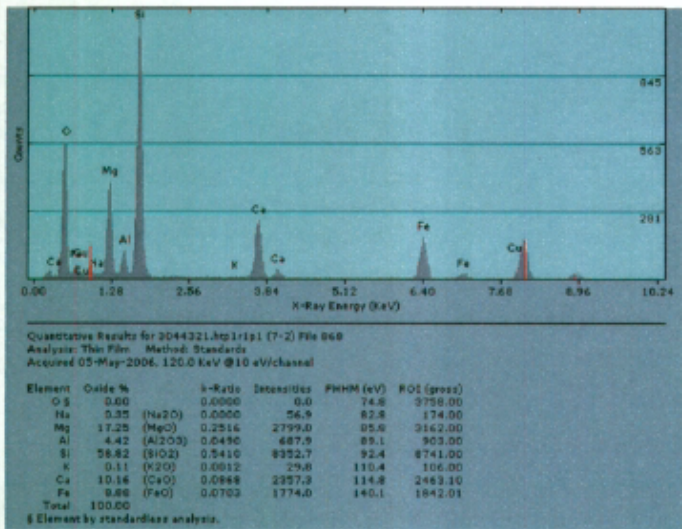
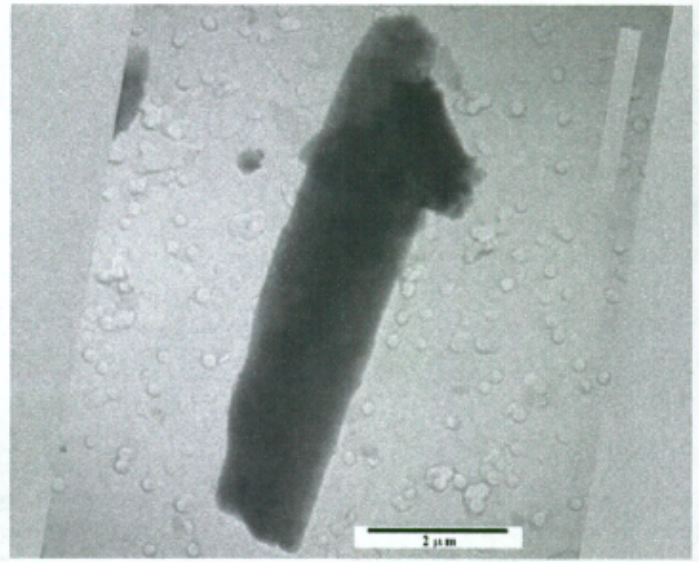
TEM and SEM Data



L = 22 W = 2.25 AR = 10:1
 Mineral category: Amphibole

Zone 513 D1 3.46
 Phi 82.8 D2 2.65

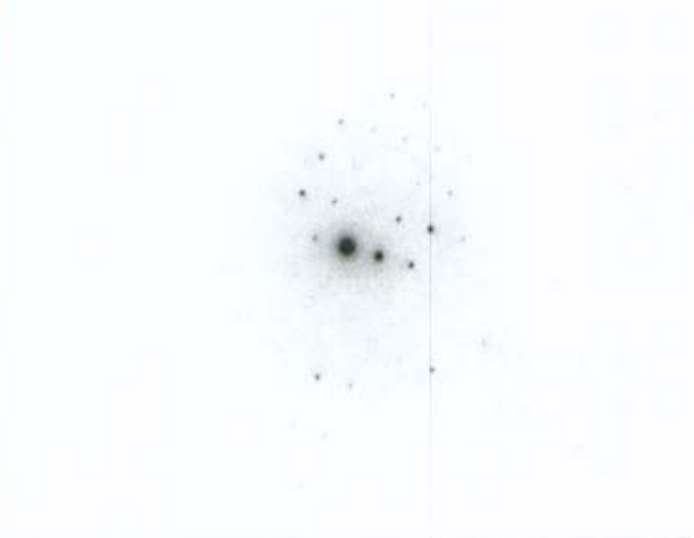
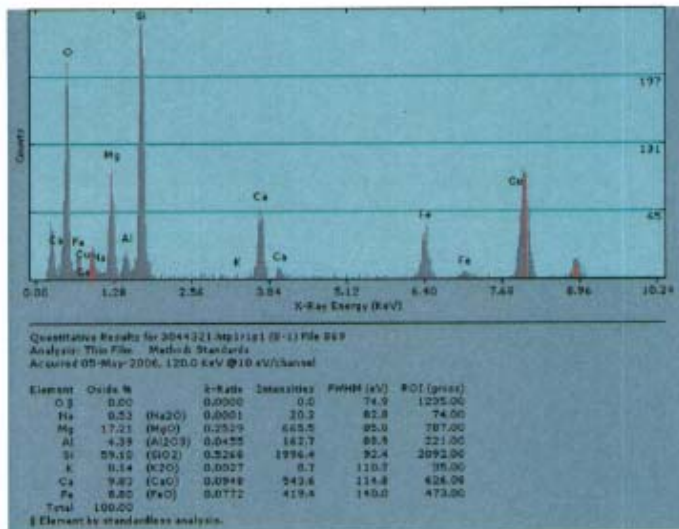
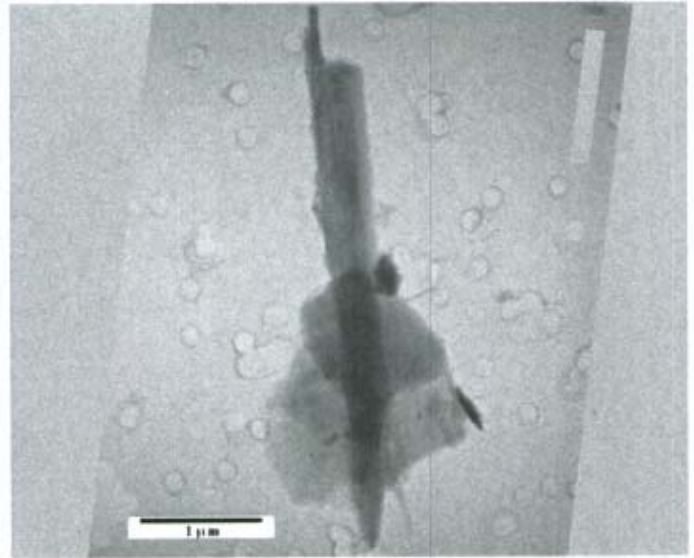
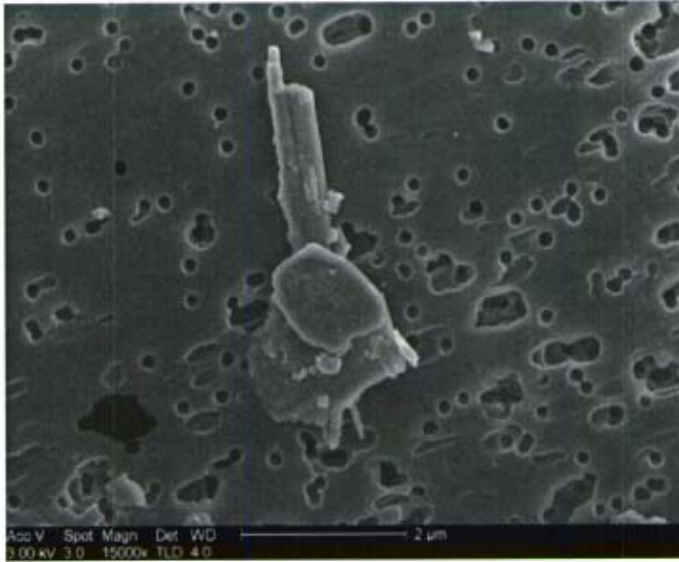
RJLG # 3044321 Field 7, Fiber 1
 CPS-S05-100804-FG2 -- Soil



L = 10 W = 2 AR = 5:1
 Mineral category: Amphibole

Zone 101 D1 9.25
 Phi 74.6 D2 4.99

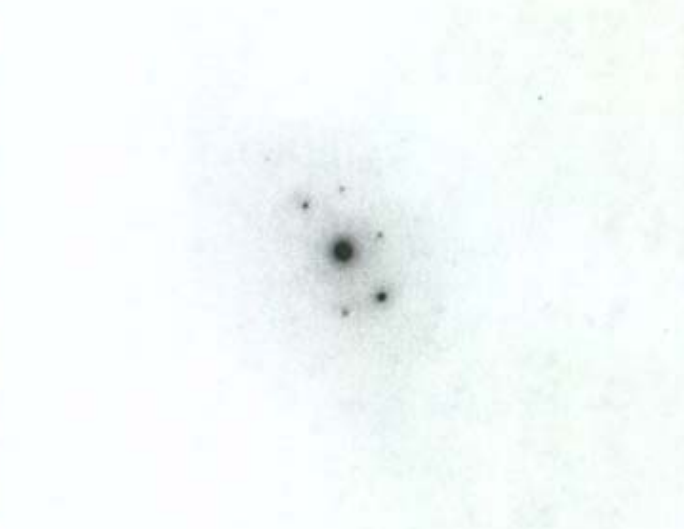
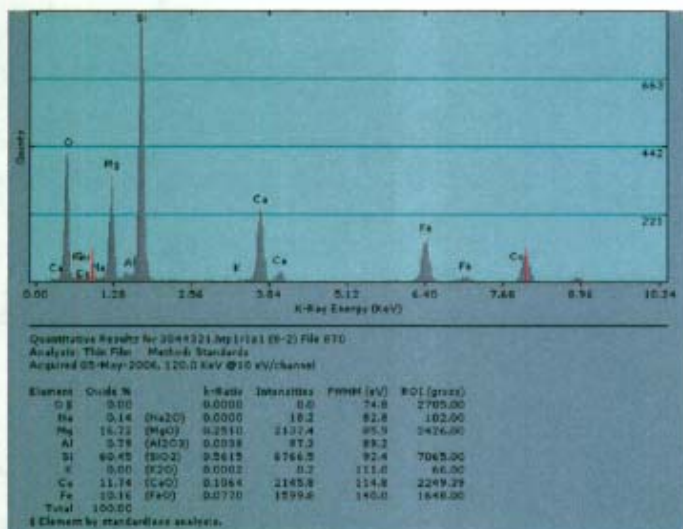
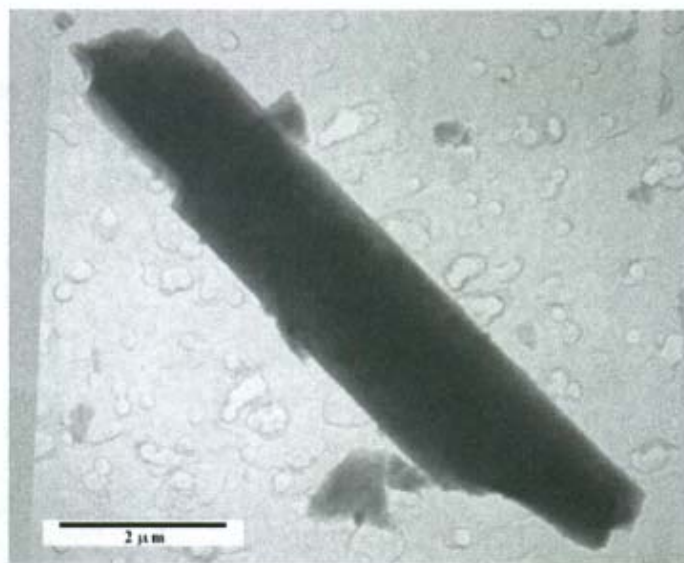
RJLG # 3044321 Field 7, Fiber 2
 CPS-S05-100804-FG2 -- Soil



L = 5.75 W = .4 AR = 14:1
Mineral category: Amphibole

Zone 21-3 D1 4.13
Phi 76 D2 3.45

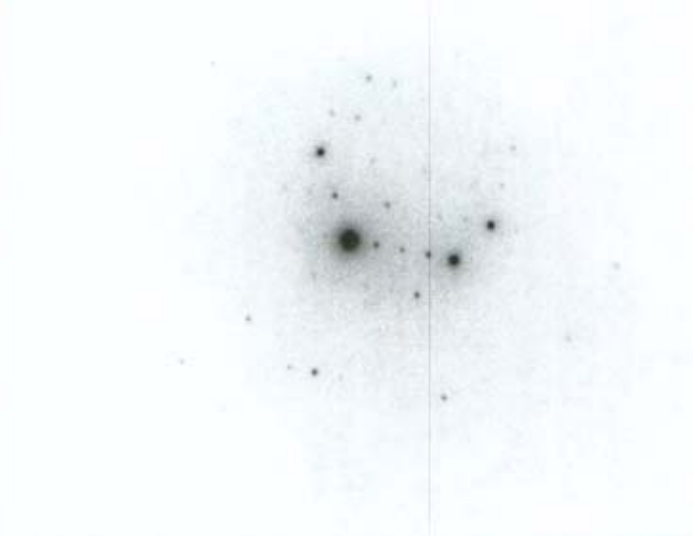
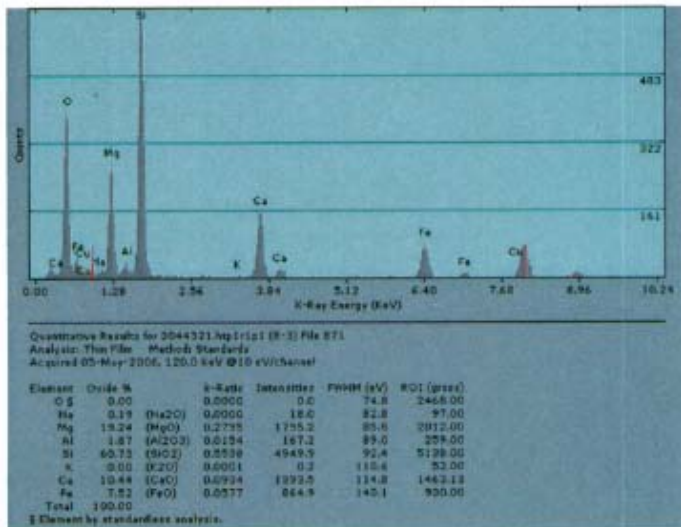
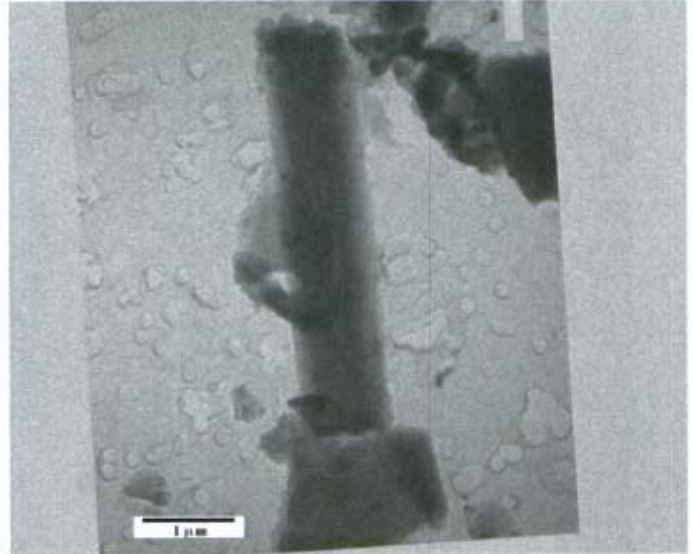
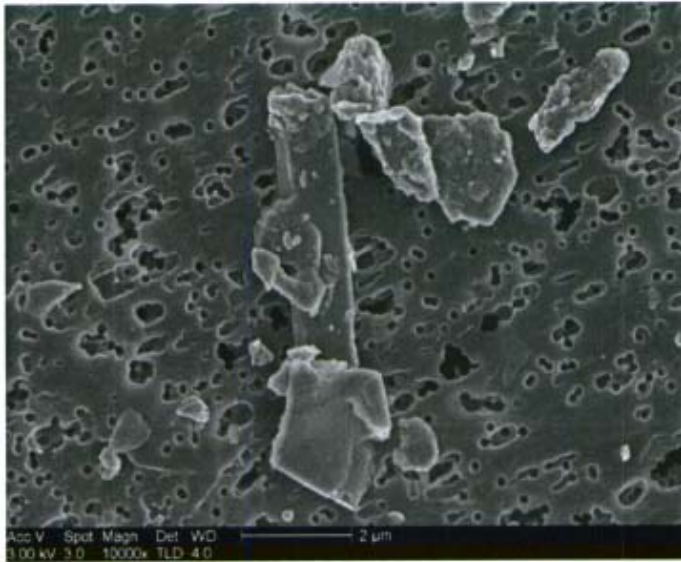
RJLG # 3044321 Field 8, Fiber 1
CPS-S05-100804-FG2 -- Soil



L = 10 W = 1.75 AR = 6:1
 Mineral category: Amphibole

Zone 34-4 D1 2.33
 Phi 72.3 D2 2.32

RJLG # 3044321 Field 8, Fiber 2
 CPS-S05-100804-FG2 -- Soil



L = 6.25 W = 1.25 AR = 5:1

Mineral category: Amphibole

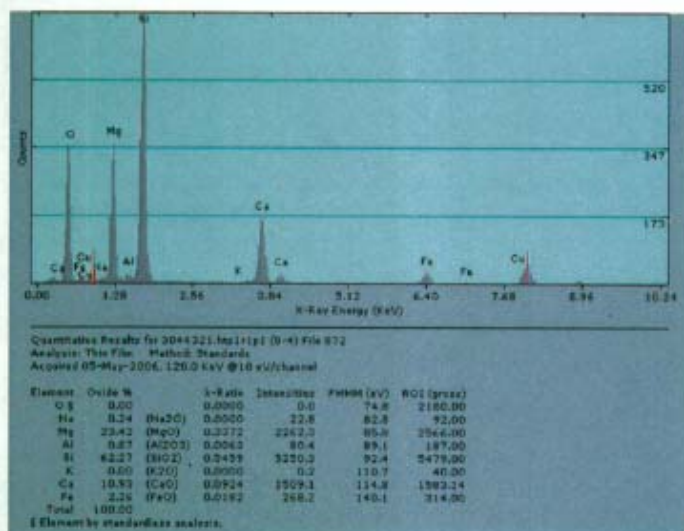
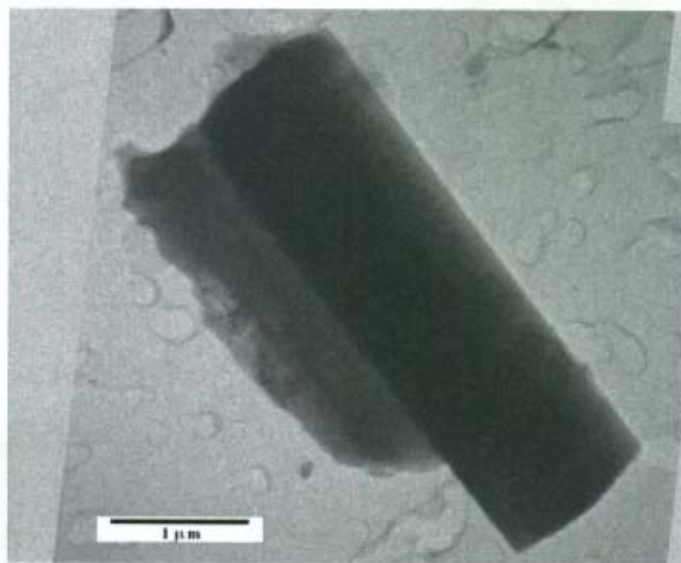
Zone 510

Phi 84.1

D1 5.17

D2 3.43

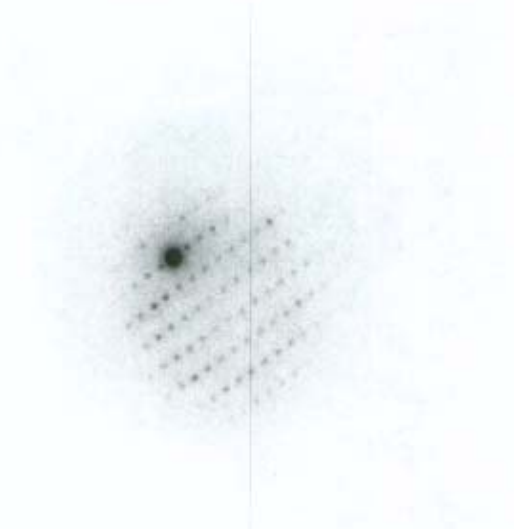
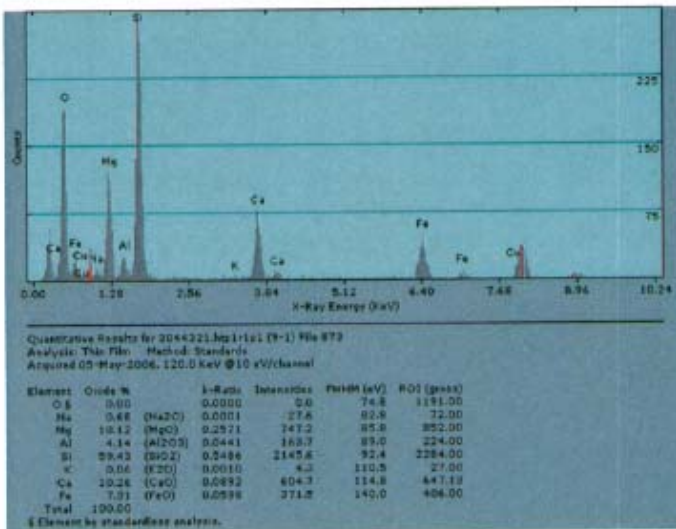
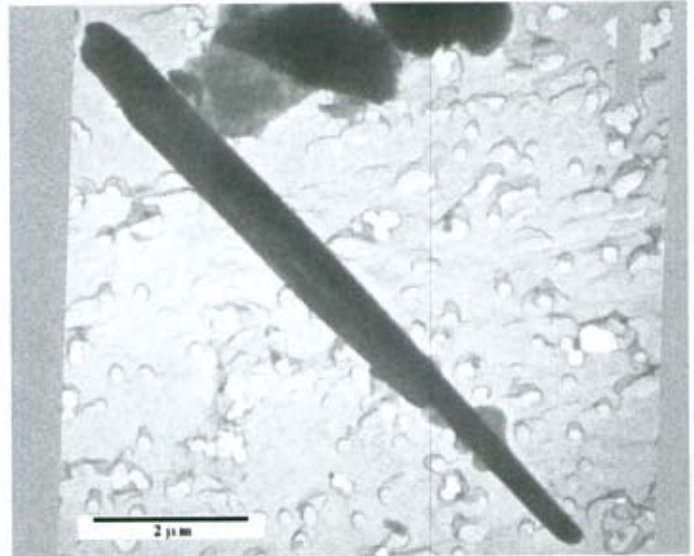
RJLG # 3044321 Field 8, Fiber 3
 CPS-S05-100804-FG2 -- Soil



L = 5 W = 1.4 AR = 4:1
 Mineral category: Amphibole

Zone 510 D1 5.06
 Phi 82.6 D2 3.47

RJLG # 3044321 Field 8, Fiber 4
 CPS-S05-100804-FG2 -- Soil

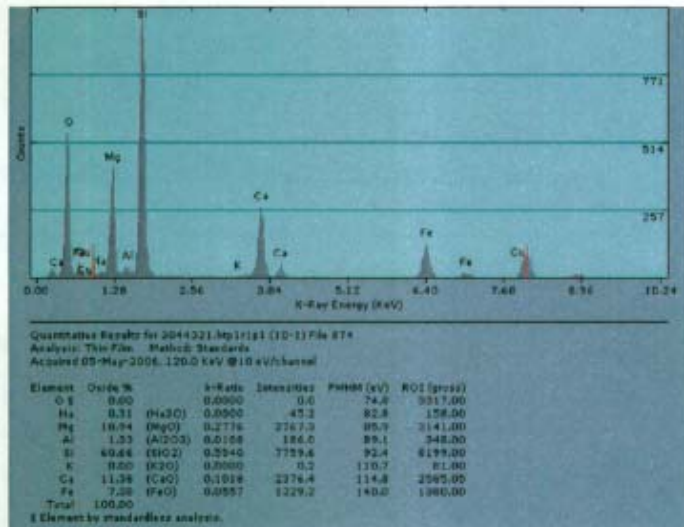
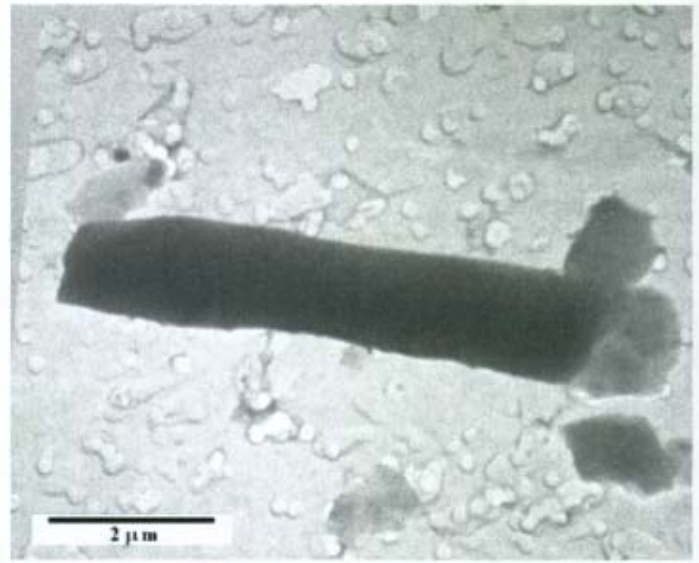


L = 10.1 W = .6 AR = 17:1

Mineral category: Amphibole

Zone 112 D1 8.58
Phi 83.3 D2 5.05

RJLG # 3044321 Field 9, Fiber 1
CPS-S05-100804-FG2 -- Soil

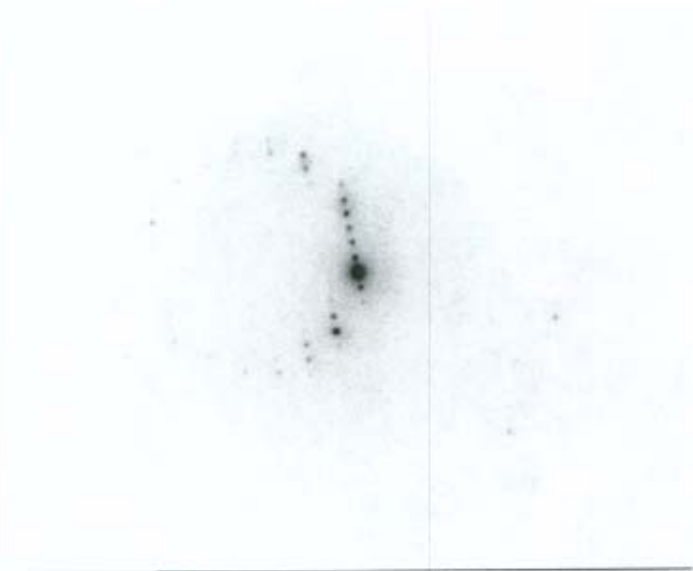
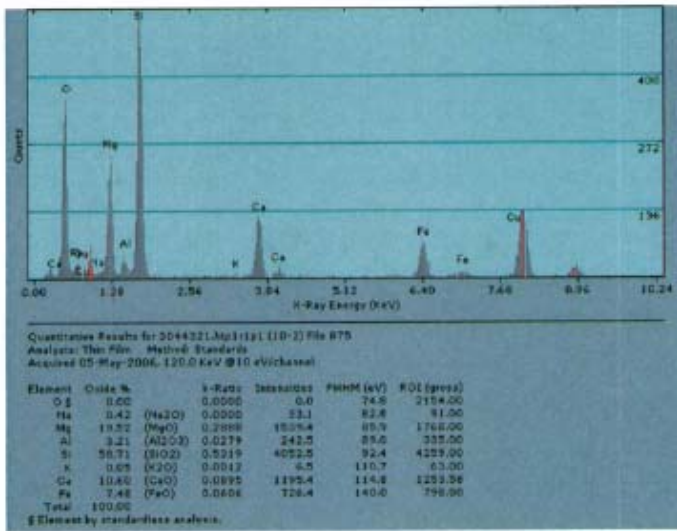
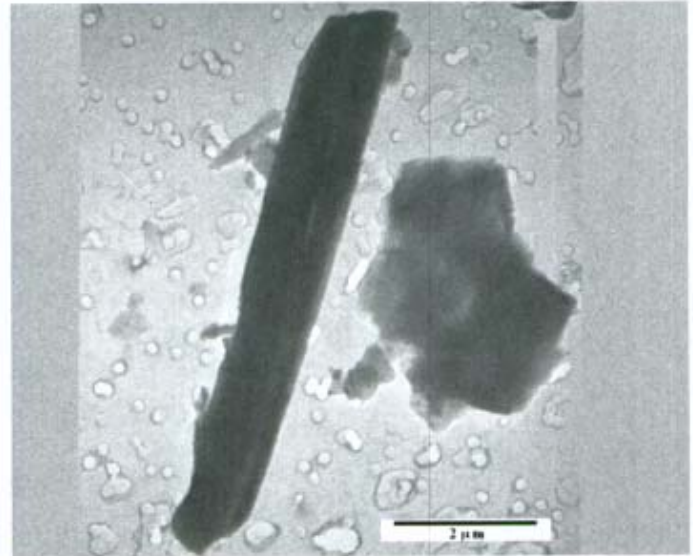


L = 7.2 W = 1.25 AR = 6:1
 Mineral category: Amphibole

SAED not measured

RJLG # 3044321 Field 10, Fiber 1
 CPS-S05-100804-FG2 -- Soil

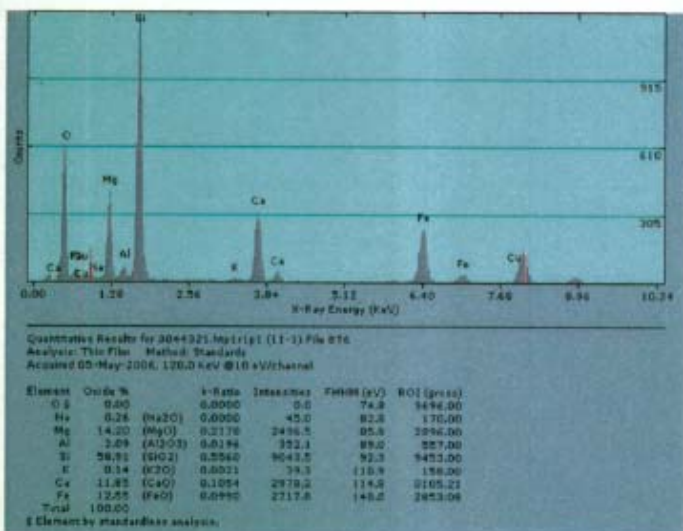
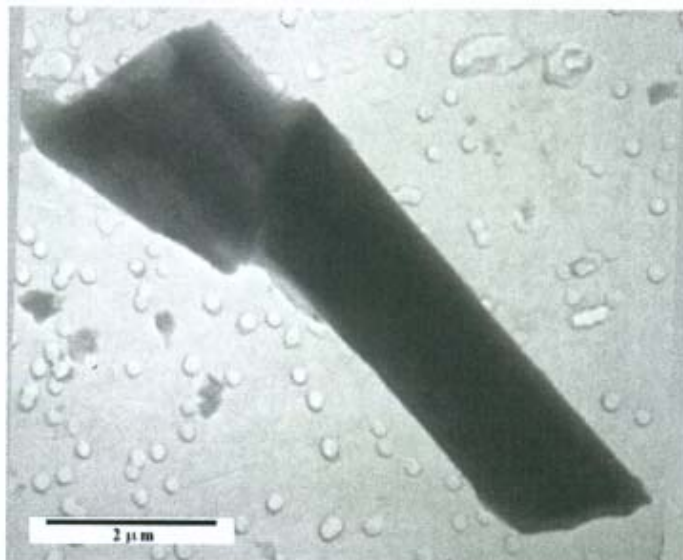
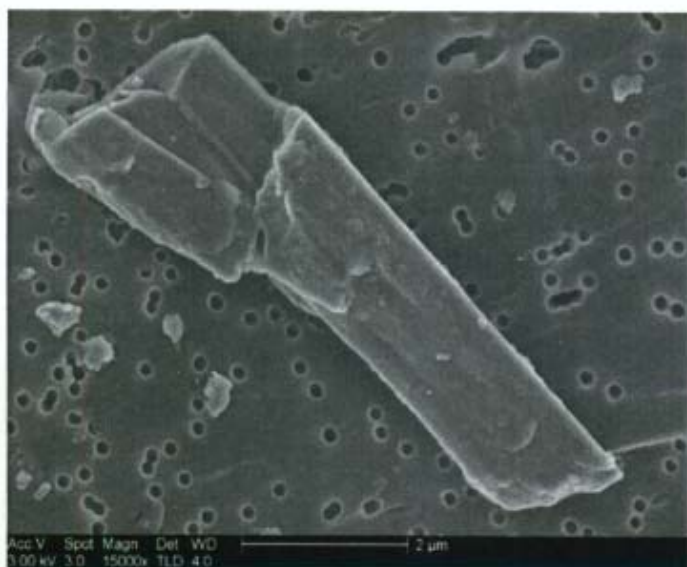
TEM and SEM Data



L = 8.2 W = 1.4 AR = 6:1
 Mineral category: Amphibole

Zone 101 D1 9.29
 Phi 77.9 D2 4.33

RJLG # 3044321 Field 10, Fiber 2
 CPS-S05-100804-FG2 -- Soil



L = 6.7 W = 2 AR = 3:1

Mineral category: Amphibole

Zone 10-3

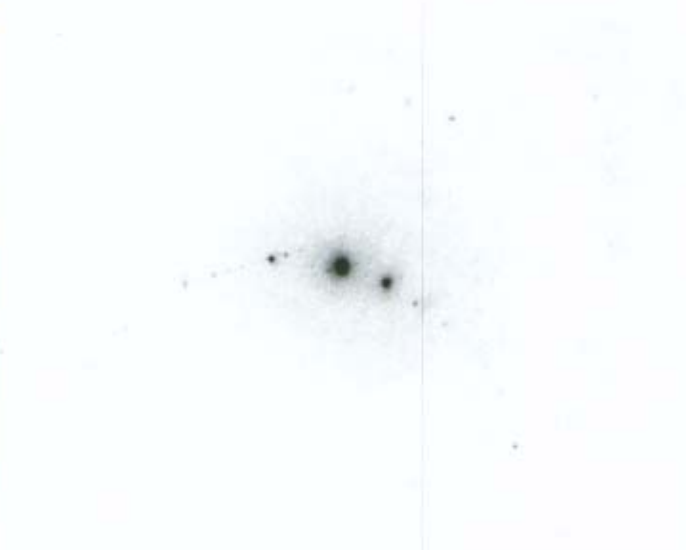
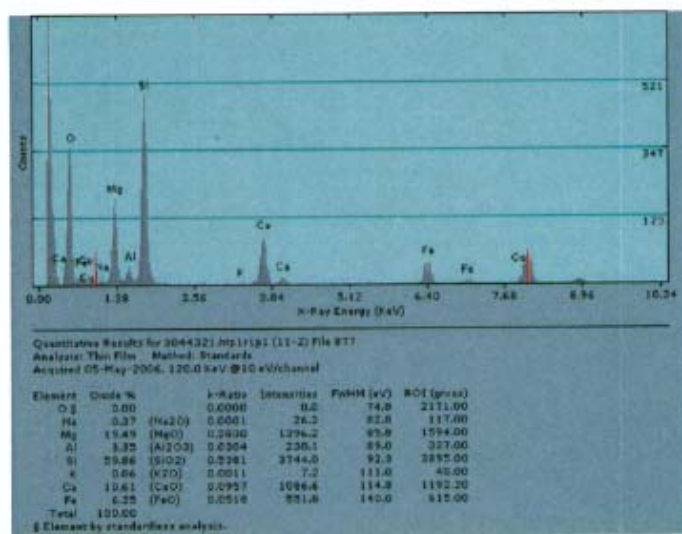
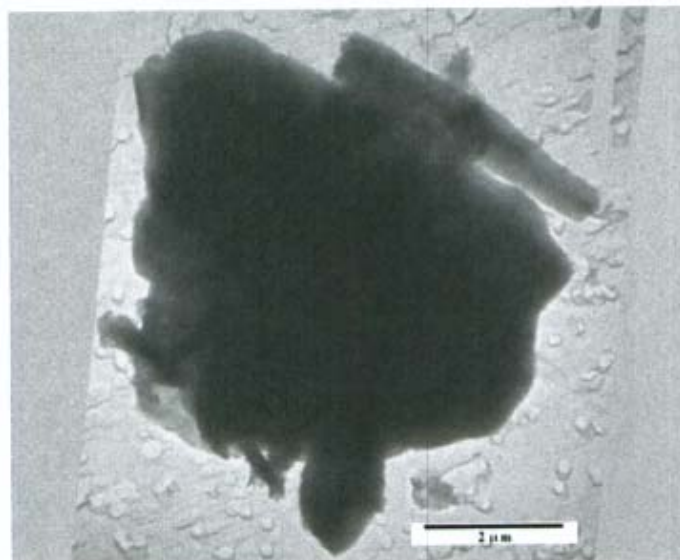
D1 9.27

Phi 81.3

D2 2.64

RJLG # 3044321 Field 11, Fiber 1
 CPS-S05-100804-FG2 -- Soil

TEM and SEM Data



L = 5.25 W = 1 AR = 5:1

Mineral category: Amphibole

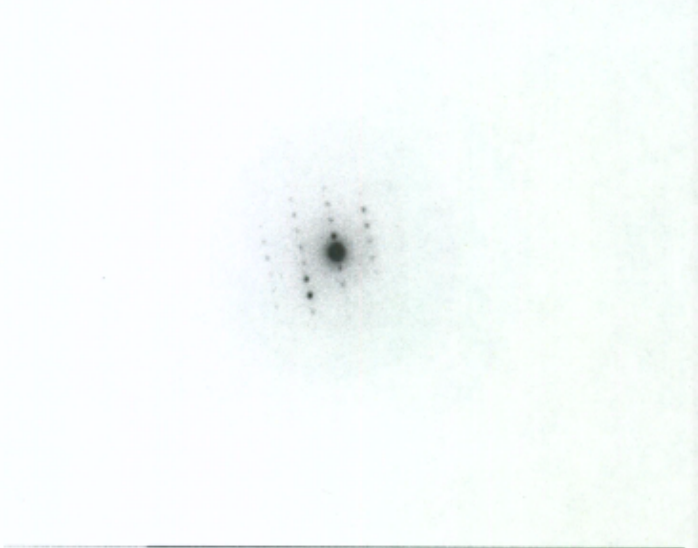
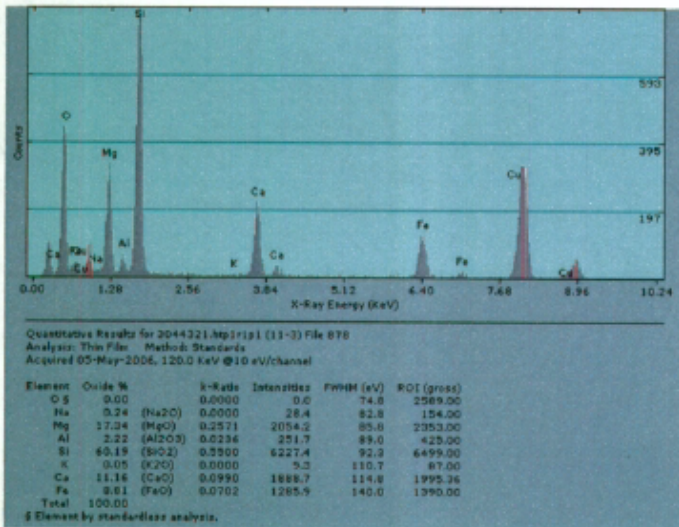
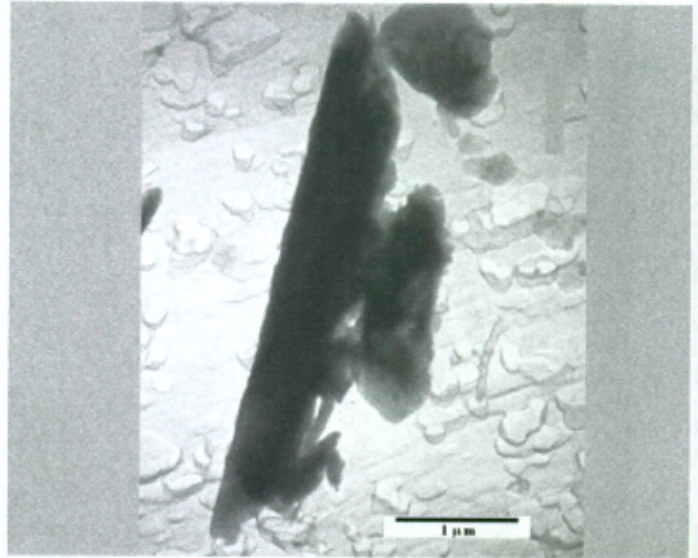
Zone 10-1

Phi 75.8

D1 9.23

D2 5.03

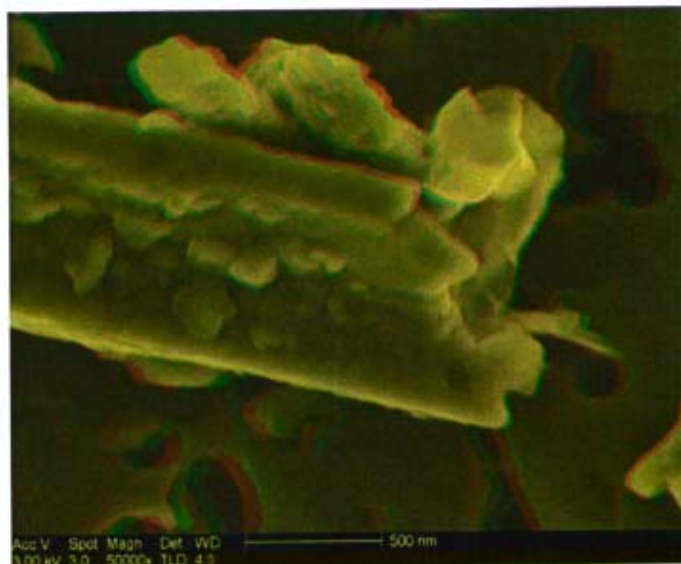
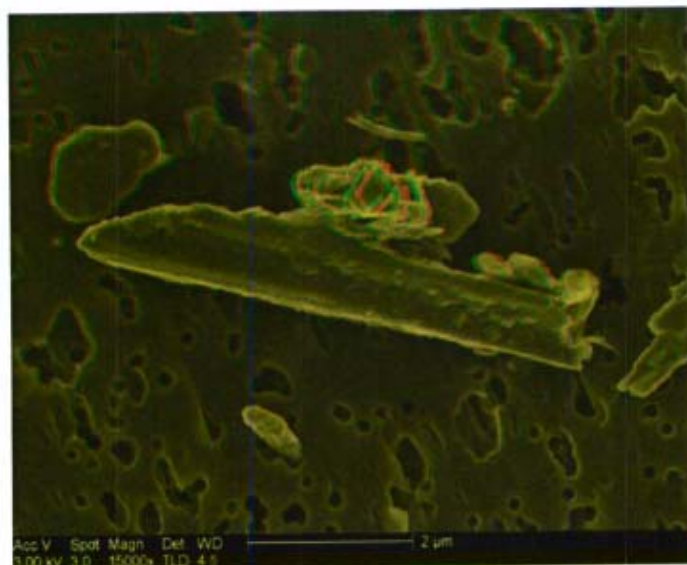
RJLG # 3044321 Field 11, Fiber 2
 CPS-S05-100804-FG2 -- Soil



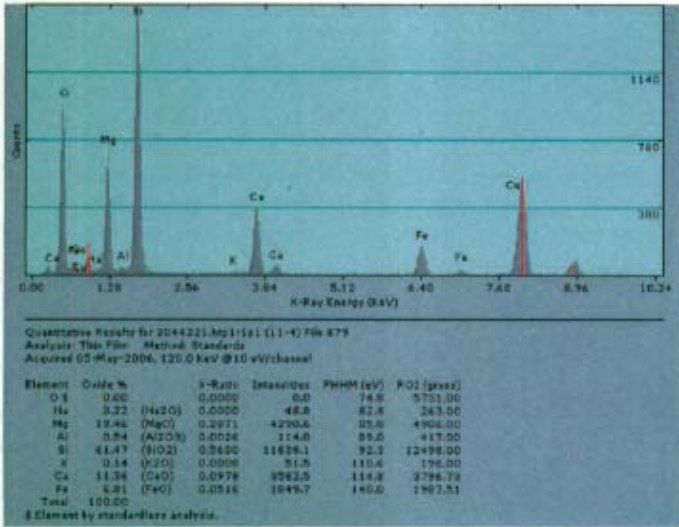
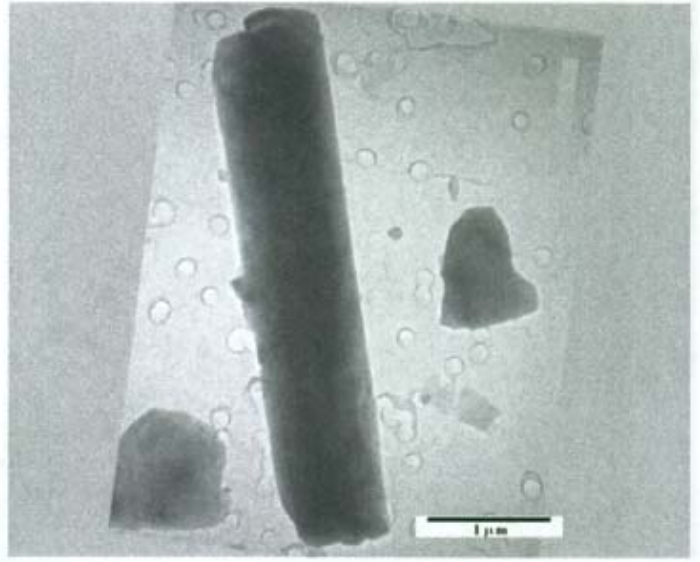
L = 6.1 W = 1.25 AR = 5:1
 Mineral category: Amphibole

Zone 114 D1 8.63
 Phi 83.9 D2 3.87

RJLG # 3044321 Field 11, Fiber 3
 CPS-S05-100804-FG2 -- Soil



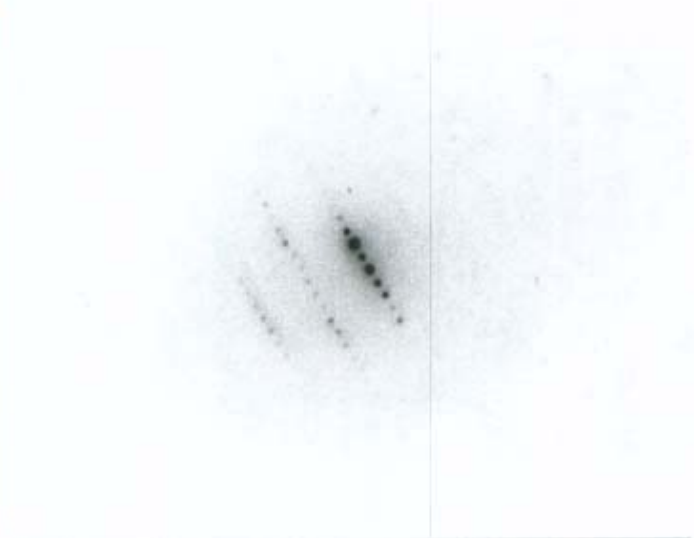
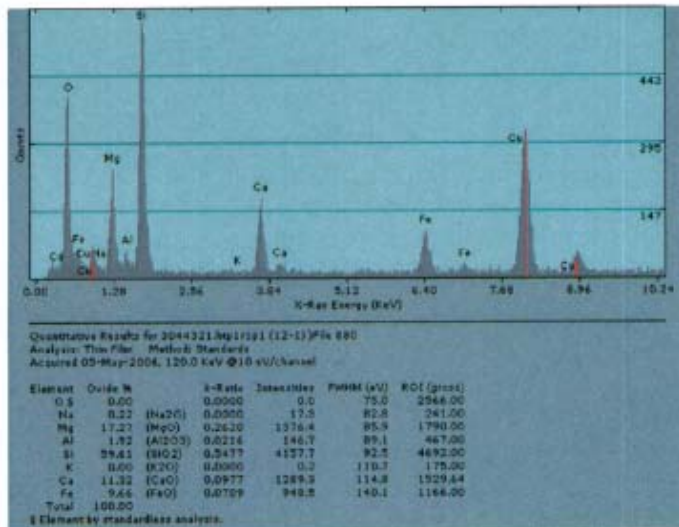
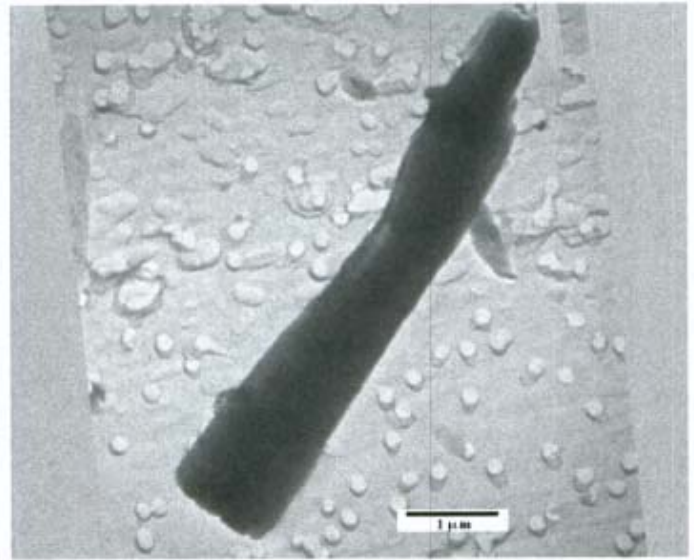
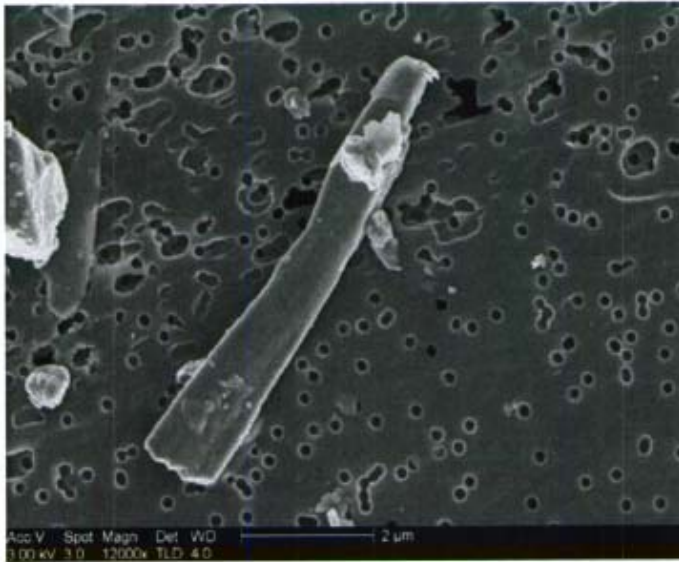
RJLG # 3044321 Field 11, Fiber 3
CPS-S05-100804-FG2 -- Soil



L = 6.25 W = 1.45 AR = 4:1
Mineral category: Amphibole

Zone 510 D1 5.25
Phi 84.1 D2 3.49

RJLG # 3044321 Field 11, Fiber 4
CPS-S05-100804-FG2 -- Soil



L = 7.6 W = 1.25 AR = 6:1

Mineral category: Amphibole

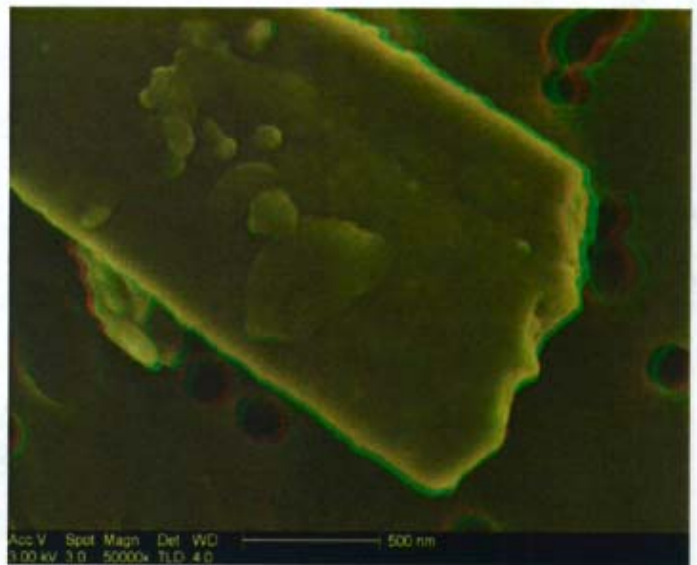
Zone 10-3

D1 9.42

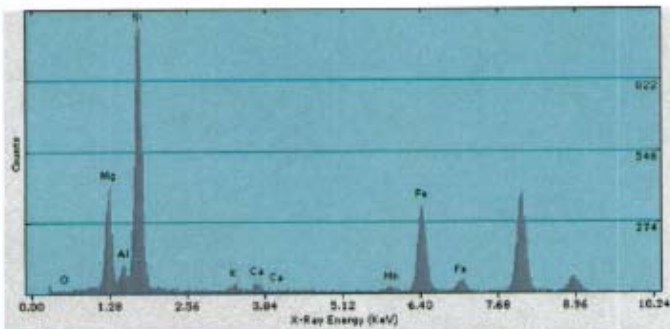
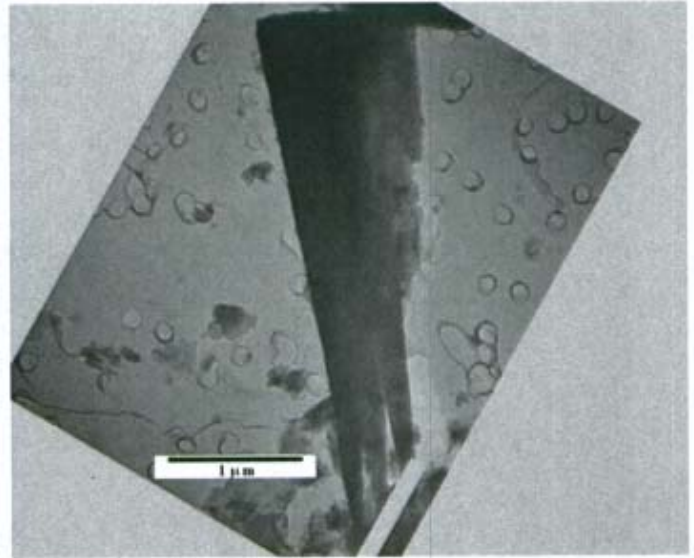
Phi 82.7

D2 2.37

RJLG # 3044321 Field 12, Fiber 1
CPS-S05-100804-FG2 -- Soil

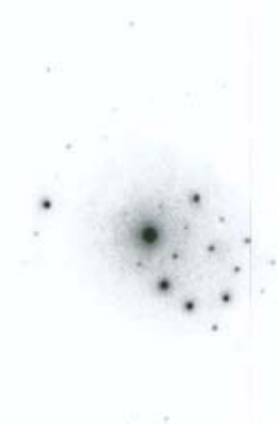


RJLG # 3044321 Field 12, Fiber 1
CPS-S05-100804-FG2 -- Soil



Quantitative Results for 3044322.HTP2R1F1 (1-1) FILE 2175
 Analysis: Thin Film Method: Stoeckerless
 Acquired 05-May-2006, 120.0 keV @ 10 eV/channel

Element	Oxide %	k-Ratio	Intensity	PWHM (eV)	ROI (gross)
O	0.00	0.0000	0.0	95.0	129.00
Mg	15.19 (MgO)	0.1547	3045.1	103.9	2541.00
Al	3.38 (Al ₂ O ₃)	0.0097	601.0	106.5	1131.00
Si	57.20 (SiO ₂)	0.2452	9455.1	109.3	10291.00
K	0.68 (K ₂ O)	0.0060	190.1	125.4	370.00
Ca	1.20 (CaO)	0.0074	290.6	128.8	454.00
Mn	1.46 (Mn ₂ O ₇)	0.0030	189.3	147.7	310.00
Fe	20.86 (FeO)	0.1043	4221.2	151.7	4309.01
Total	100.00				

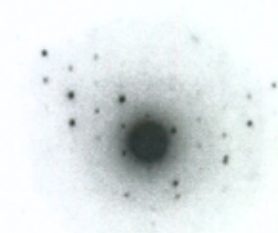
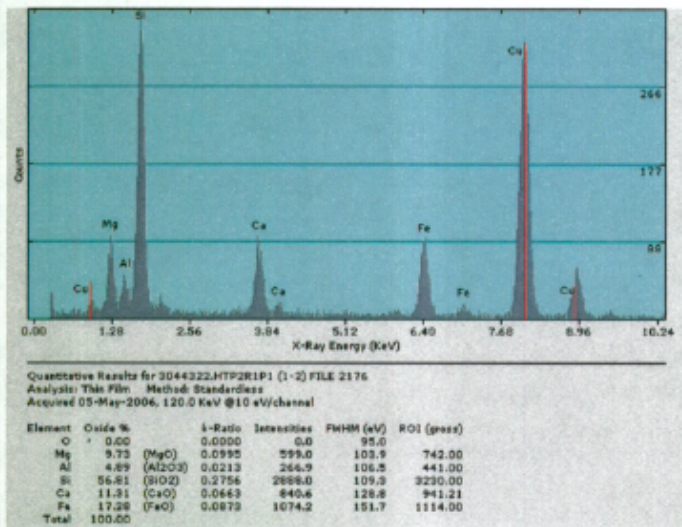
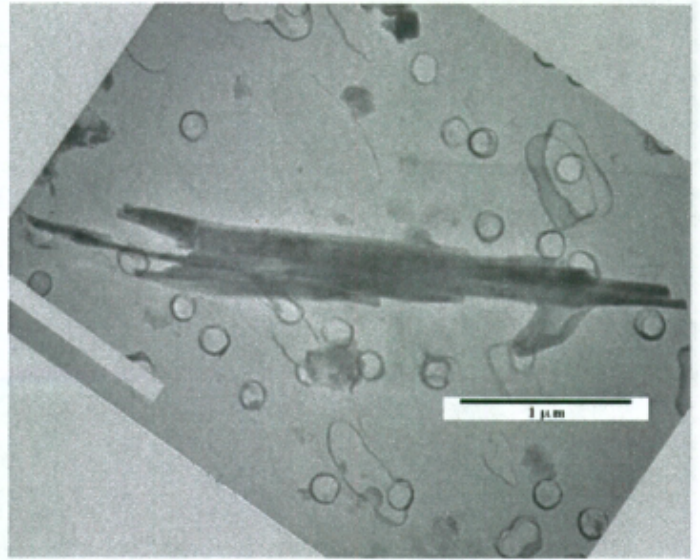


L = 4.1 W = .9 AR = 5:1

Mineral category: Clay

Zone	210	D1	4.41
Phi	57.3	D2	3.62

RJLG # 3044322 Field 1, Fiber 1
 CPS-S101-100804-FG2 -- Soil



L = 3.2 W = .2 AR = 16:1

Mineral category: Amphibole

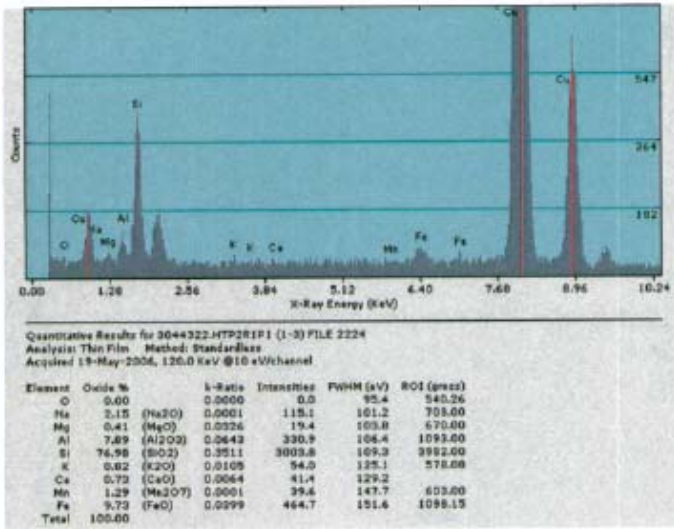
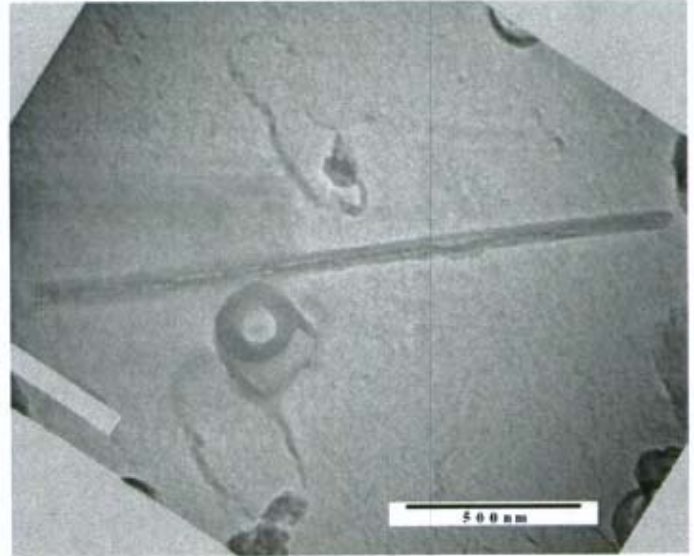
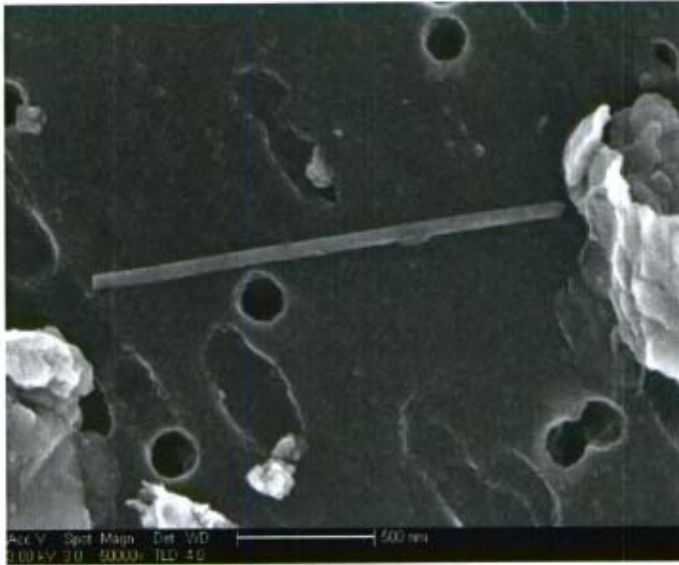
Zone 3-12

D1 5.25

Phi 69.6

D2 4.94

RJLG # 3044322 Field 1, Fiber 2
 CPS-S101-100804-FG2 -- Soil

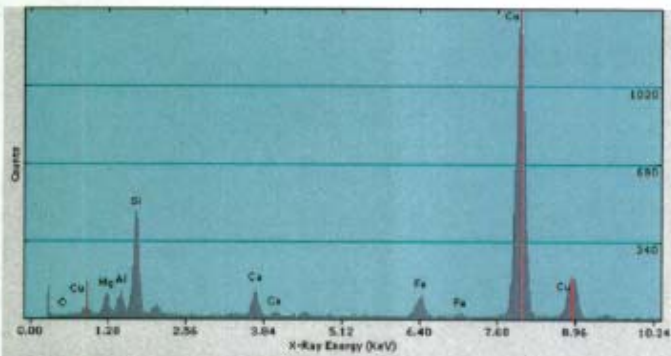
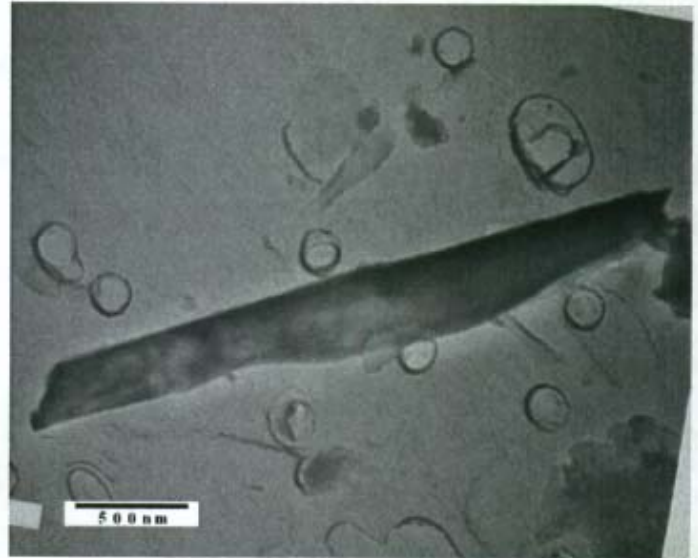


L = 1.75 W = .03 AR = 58:1

Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044322 Field 1, Fiber 3
 CPS-S101-100804-FG2 -- Soil



Quantitative Results for 3044322.MTR281R1 (3-1) FILE 2177
 Analysis Thin Film Method: Standardless
 Acquired 05-May-2006, 120.0 KeV @ 10 eV/channel

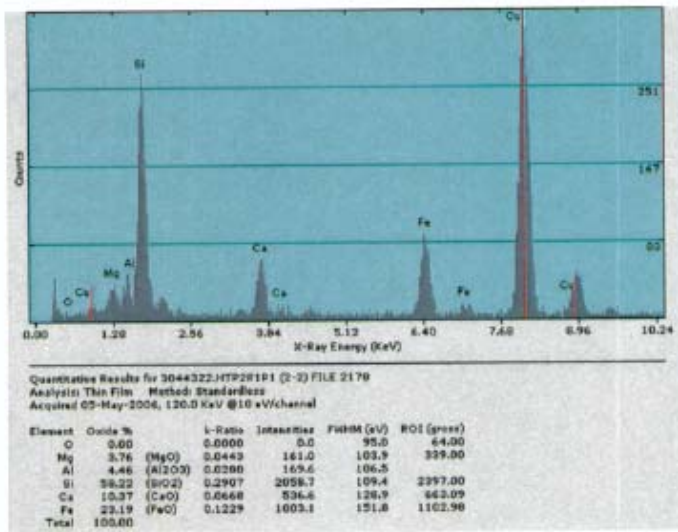
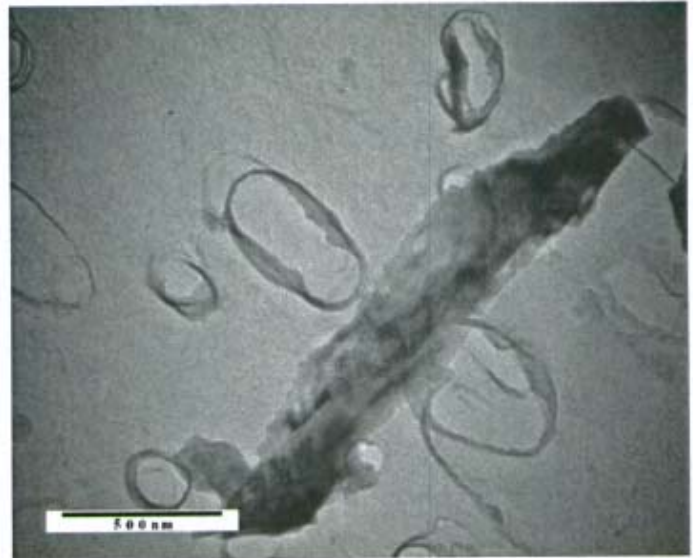
Element	Oxide %	I-Ratio	Intensity	PhiRH (eV)	ROI (gross)
O	0.00	0.0000	0.0	95.0	174.00
Mg	9.15 (MgO)	0.0972	733.8	103.8	1031.00
Al	9.96 (Al2O3)	0.0542	709.6	106.4	1070.00
Si	55.24 (SiO2)	0.2640	3662.3	109.3	4244.00
Ca	11.60 (CaO)	0.0799	1123.1	126.8	1326.09
Fe	13.94 (FeO)	0.0687	1128.4	151.7	1355.61
Total	100.00				



L = 3.2 W = .2 AR = 16:1
 Mineral category: Amphibole

Zone 1-10 D1 8.51
 Phi 78.1 D2 5.18

RJLG # 3044322 Field 2, Fiber 1
 CPS-S101-100804-FG2 -- Soil

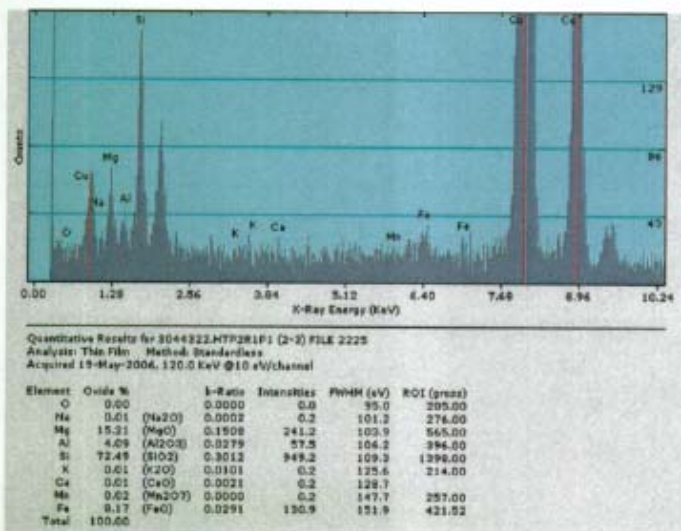
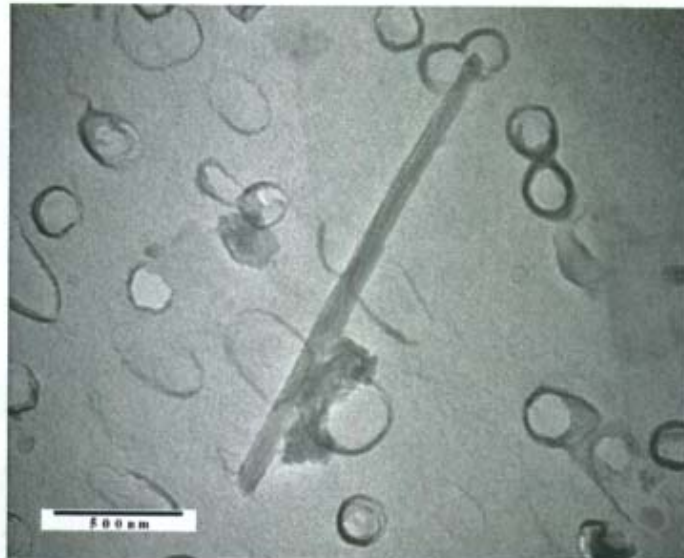


L = 2.6 W = .3 AR = 9:1

Mineral category: Amphibole

No SAED pattern acquired

RJLG # 3044322 Field 2, Fiber 2
CPS-S101-100804-FG2 -- Soil



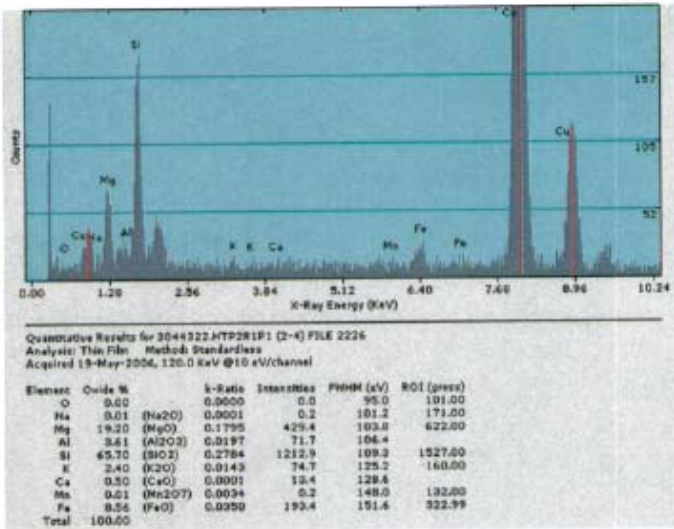
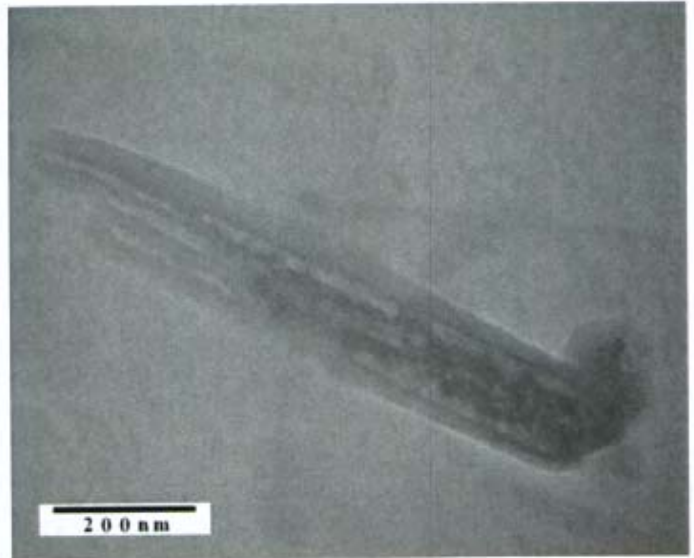
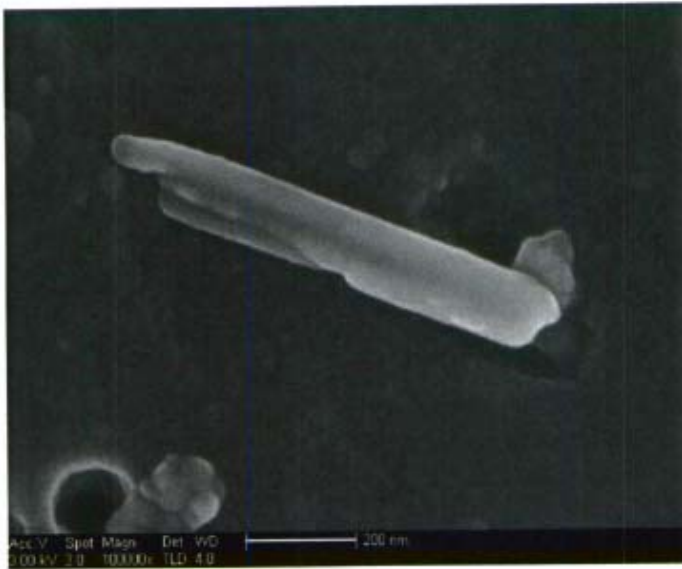
L = 1.75 W = .05 AR = 35:1

Mineral category: Serpentine

No SAED pattern acquired

RJLG # 3044322 Field 2, Fiber 3
CPS-S101-100804-FG2 -- Soil

TEM and SEM Data

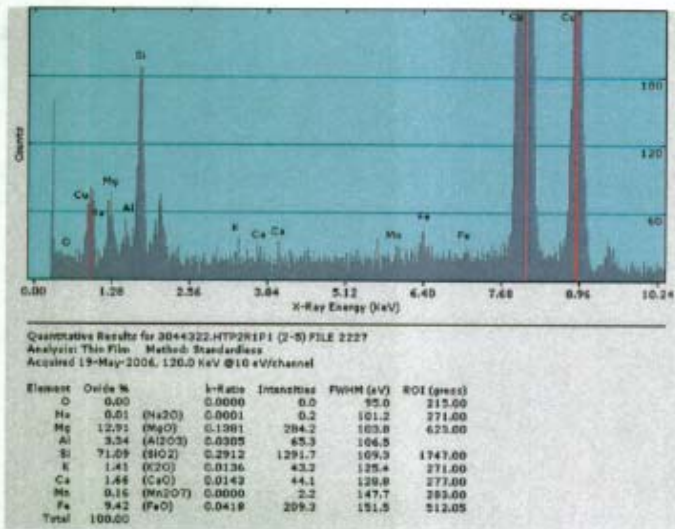
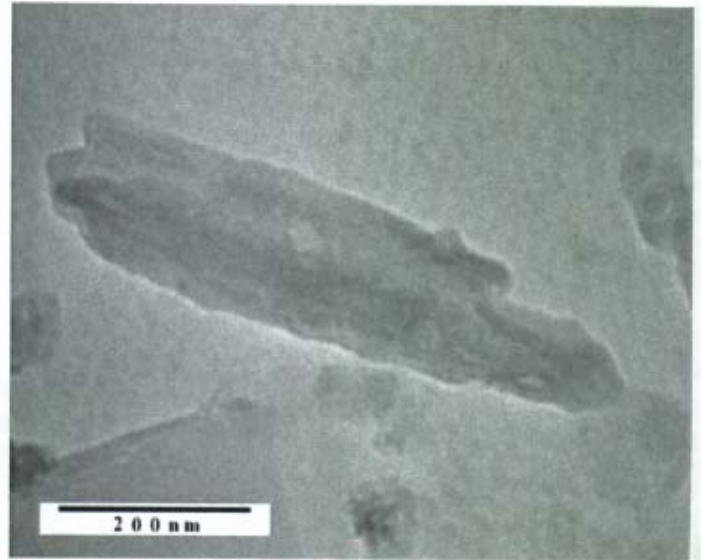


L = .75 W = .15 AR = 5:1

Mineral category: Serpentine

No SAED pattern acquired

RJLG # 3044322 Field 2, Fiber 4
 CPS-S101-100804-FG2 -- Soil



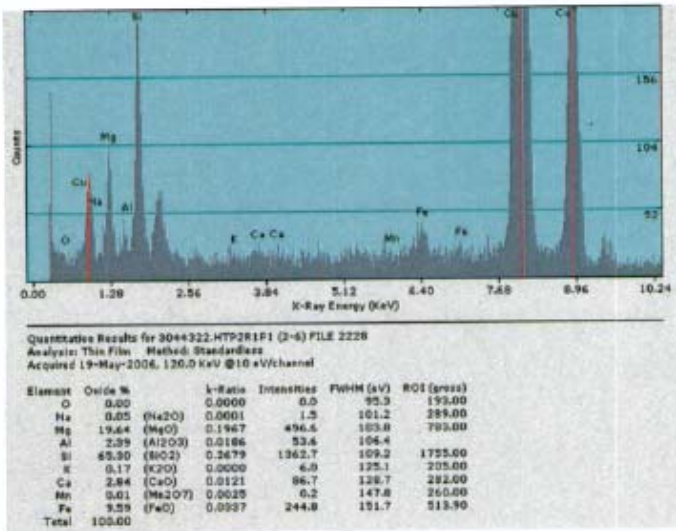
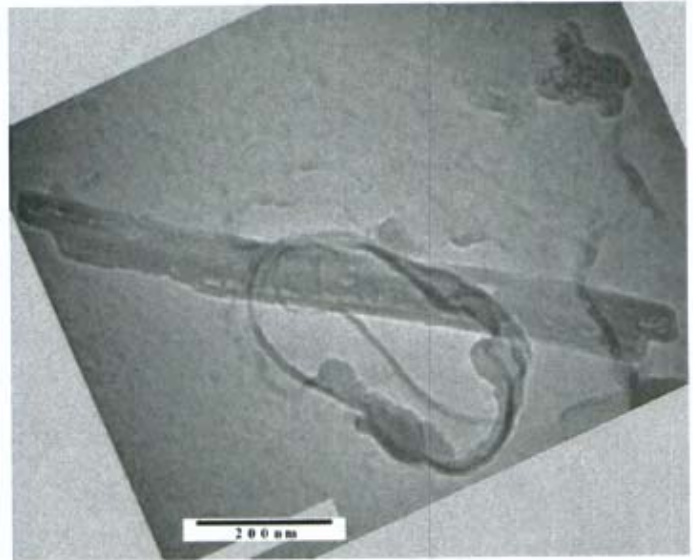
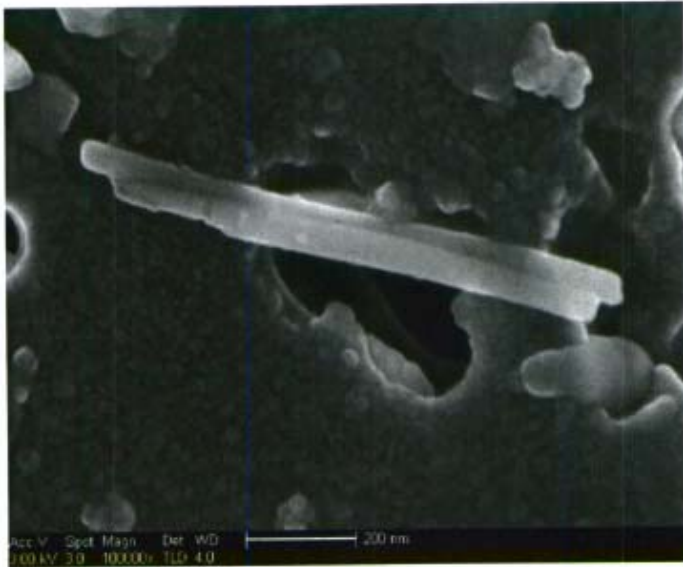
L = 1 W = .05 AR = 20:1

Mineral category: Serpentine

No SAED pattern acquired

RJLG # 3044322 Field 2, Fiber 5
 CPS-S101-100804-FG2 -- Soil

TEM and SEM Data

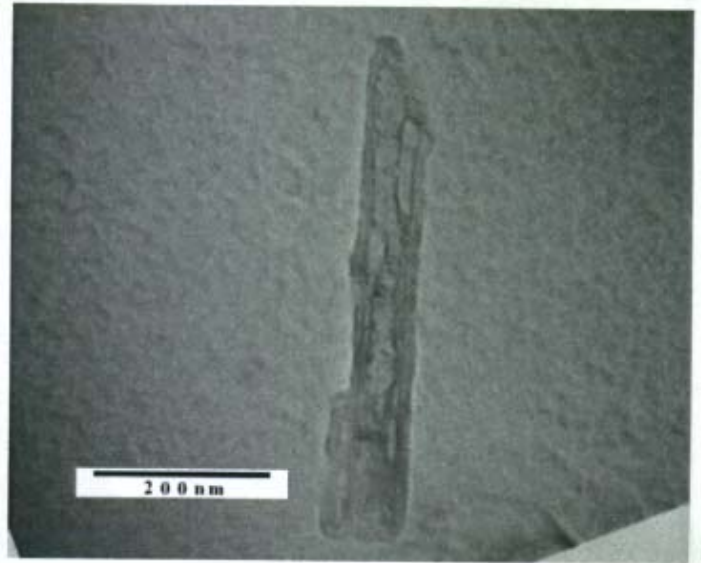


L = .5 W = .07 AR = 7:1

Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044322 Field 2, Fiber 6
 CPS-S101-100804-FG2 -- Soil



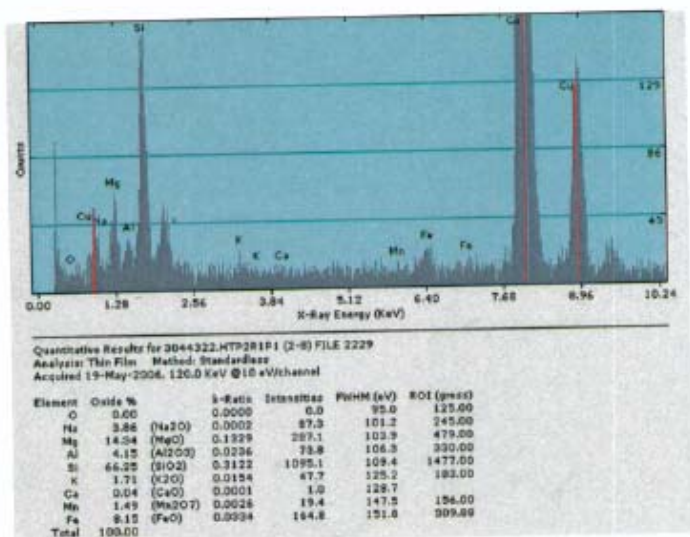
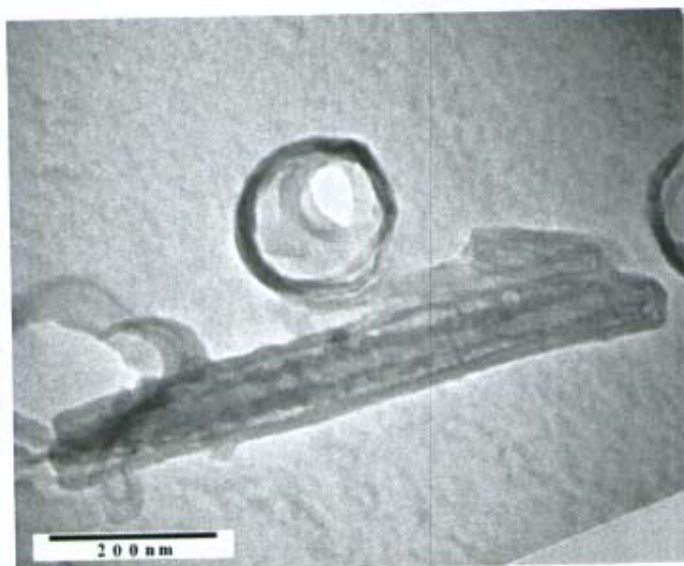
MgSi - Chrysotile

L = .3 W = .05 AR = 6:1

Mineral category: Serpentine

No SAED pattern acquired

RJLG # 3044322 Field 2, Fiber 7
CPS-S101-100804-FG2 -- Soil

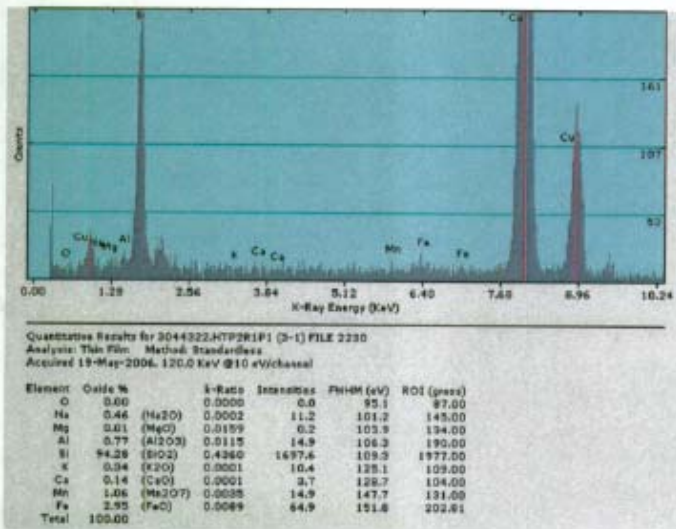


L = .6 W = .05 AR = 12:1

Mineral category: Serpentine

No SAED pattern acquired

RJLG # 3044322 Field 2, Fiber 8
 CPS-S101-100804-FG2 -- Soil

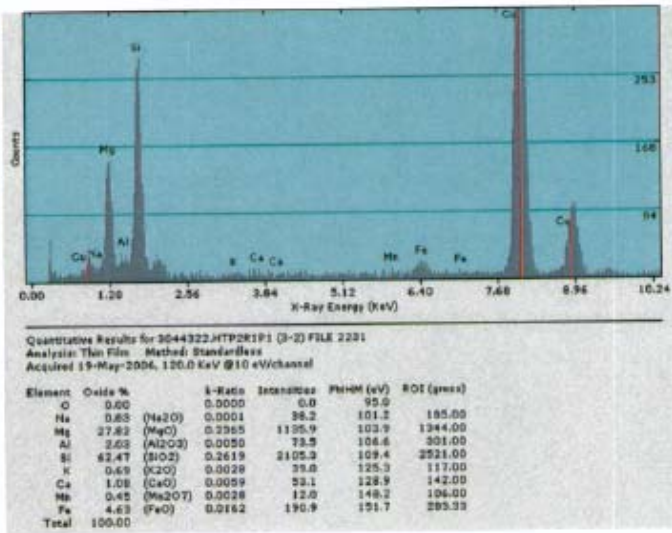
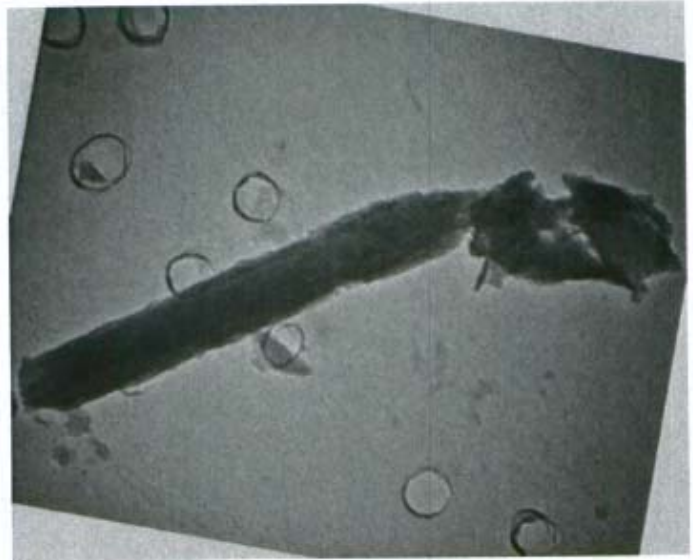


L = 1.1 W = .03 AR = 37:1

Mineral category: Unknown

No SAED pattern acquired

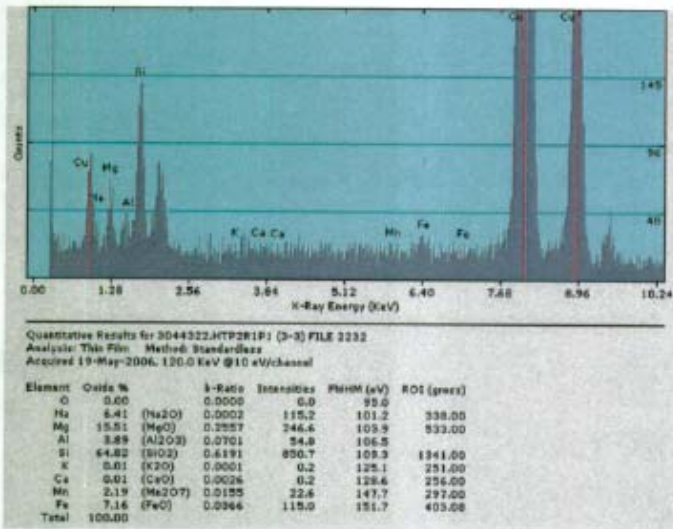
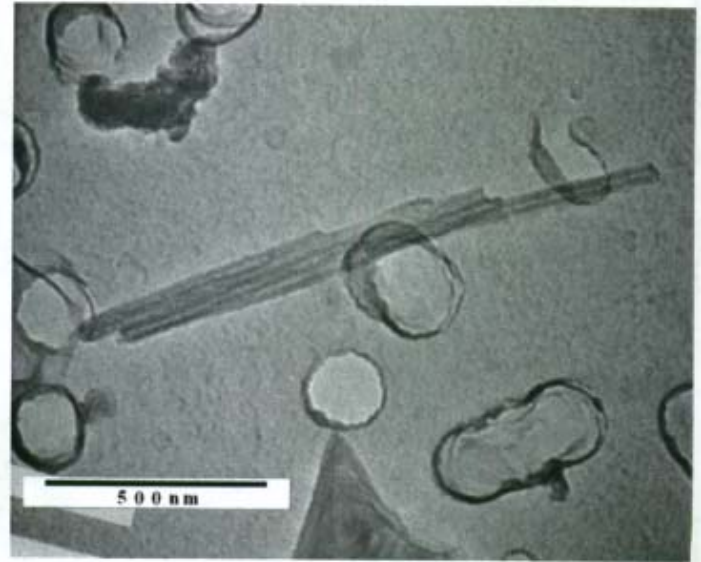
RJLG # 3044322 Field 3, Fiber 1
 CPS-S101-100804-FG2 -- Soil



Chrysotile

L = 1.75 W = .25 AR = 7:1
 Mineral category: Serpentine

RJLG # 3044322 Field 3, Fiber 2
 CPS-S101-100804-FG2 -- Soil

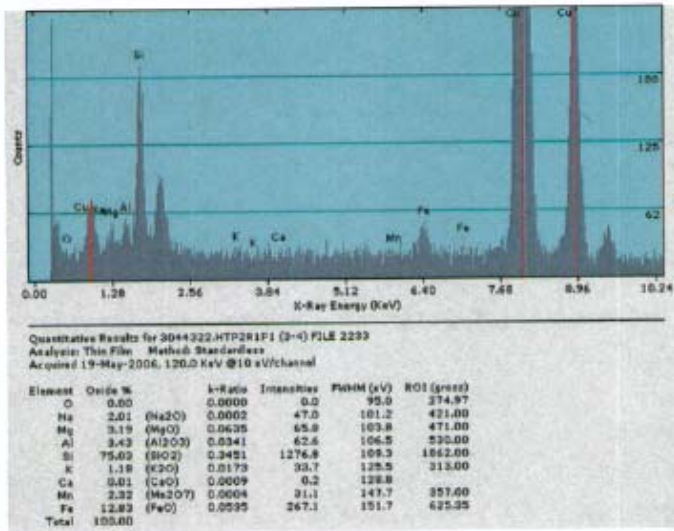
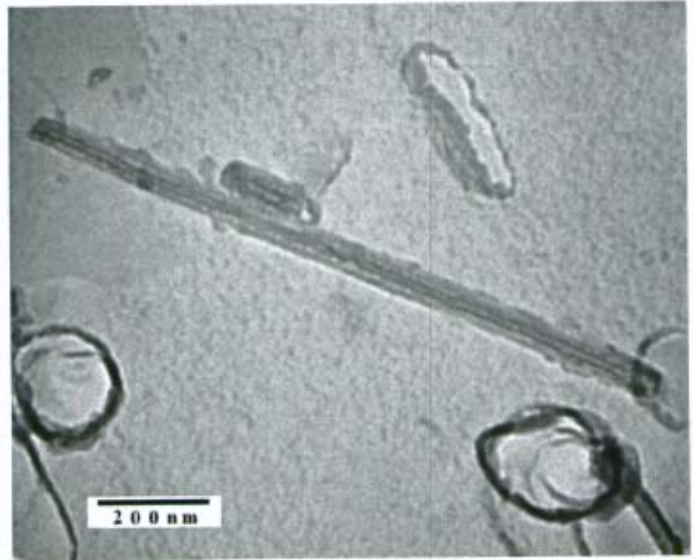


L = 1.3 W = .05 AR = 26:1

Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044322 Field 3, Fiber 3
 CPS-S101-100804-FG2 -- Soil

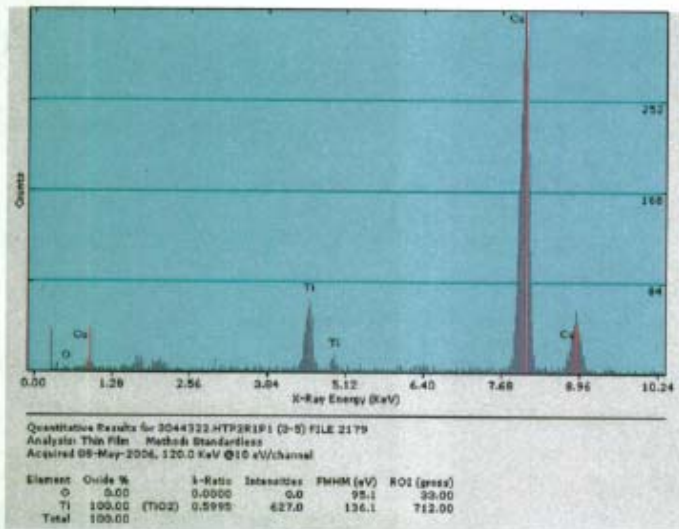
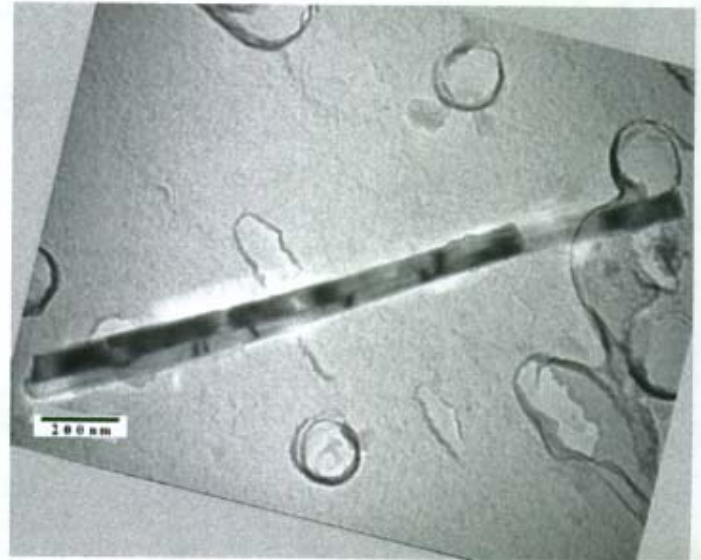


L = 1.1 W = .03 AR = 37:1

Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044322 Field 3, Fiber 4
 CPS-S101-100804-FG2 -- Soil



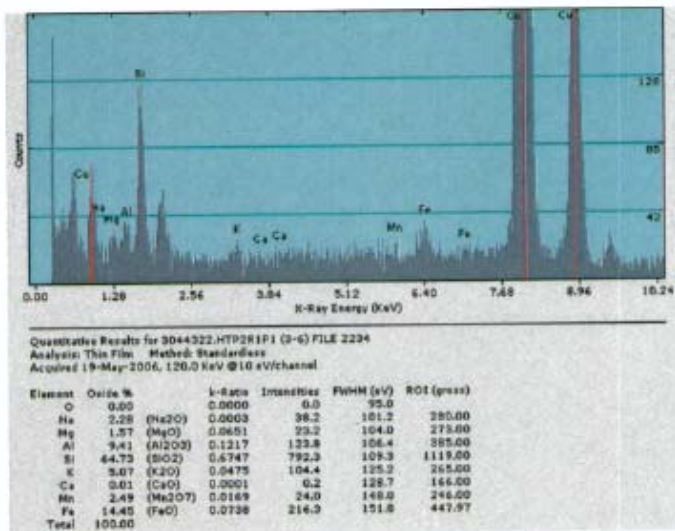
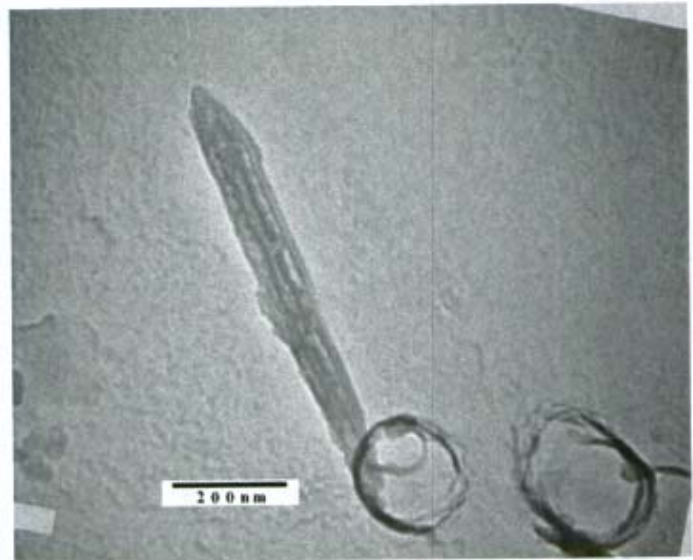
L = 1.6 W = .04 AR = 40:1

Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044322 Field 3, Fiber 5
CPS-S101-100804-FG2 -- Soil

TEM and SEM Data

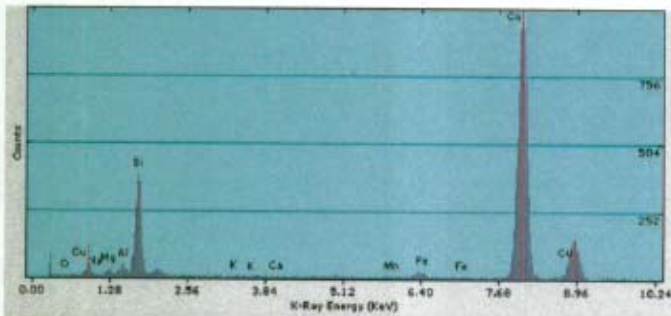
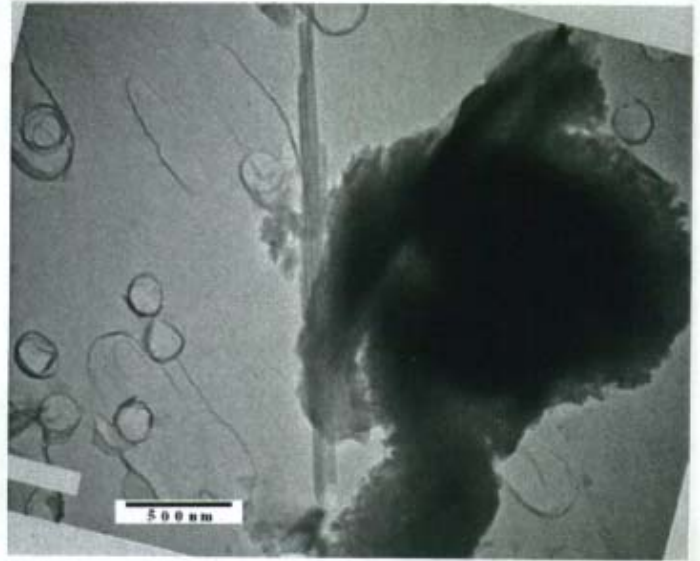
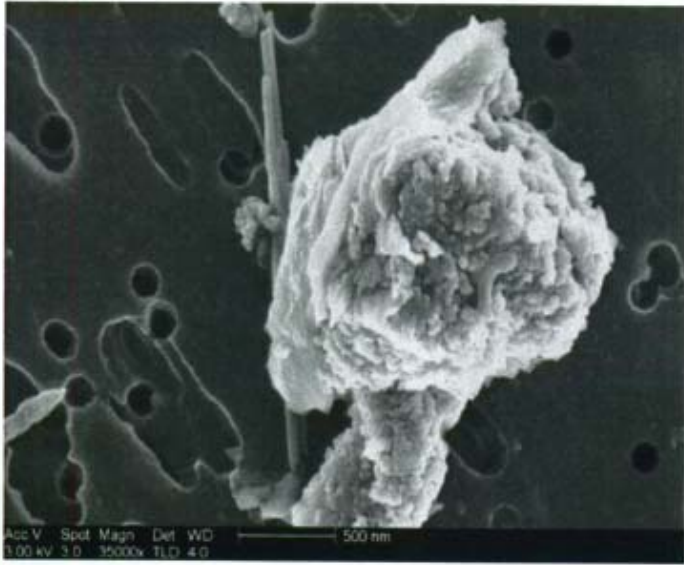


L = .6 W = .04 AR = 15:1

Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044322 Field 3, Fiber 6
 CPS-S101-100804-FG2 -- Soil



Quantitative Results for 3044322.HYP2R1P1 (3-7) FILE 2235
 Analysis: Thin Film Method: Standardless
 Acquired 19-May-2006, 120.0 KeV @10 eV/channel

Element	Oxide %	h-Ratio	Intensity	FWHM (eV)	ROI (press)
O	0.00	0.0000	0.0	35.0	98.00
Na	0.00 (Na2O)	0.0001	0.2	101.2	167.00
Mg	1.70 (MgO)	0.0282	84.1	103.9	259.00
Al	6.70 (Al2O3)	0.0981	232.2	106.4	455.00
Si	84.14 (SiO2)	0.3927	2946.1	109.3	3778.00
K	0.70 (K2O)	0.0051	41.5	125.9	129.00
Ca	0.68 (CaO)	0.0047	34.8	128.9	
Mn	0.29 (Mn2O7)	0.0000	10.6	147.7	192.00
Fe	5.38 (FeO)	0.0218	230.3	151.5	363.64
Total	100.00				

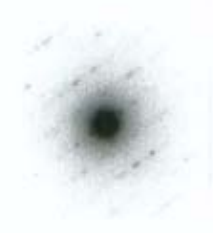
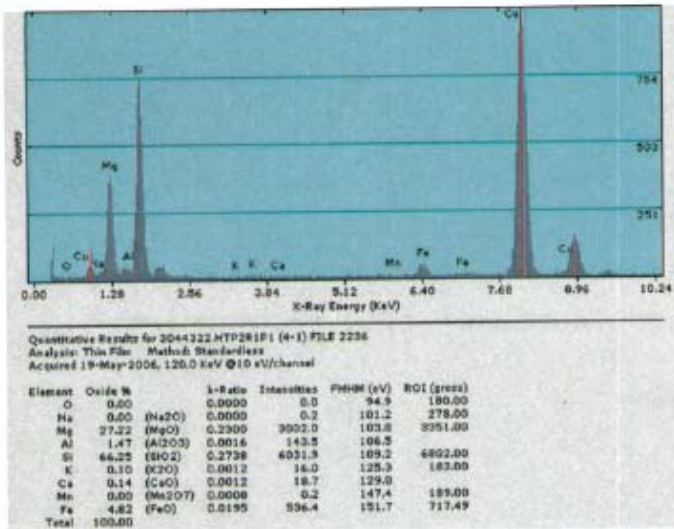
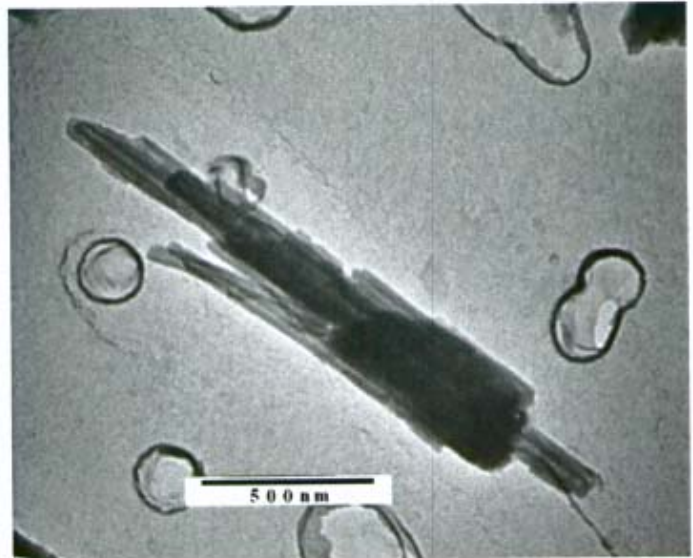


L = 2.1 W = .07 AR = 30:1

Mineral category: Serpentine

Chrysotile

RJLG # 3044322 Field 3, Fiber 7
 CPS-S101-100804-FG2 -- Soil

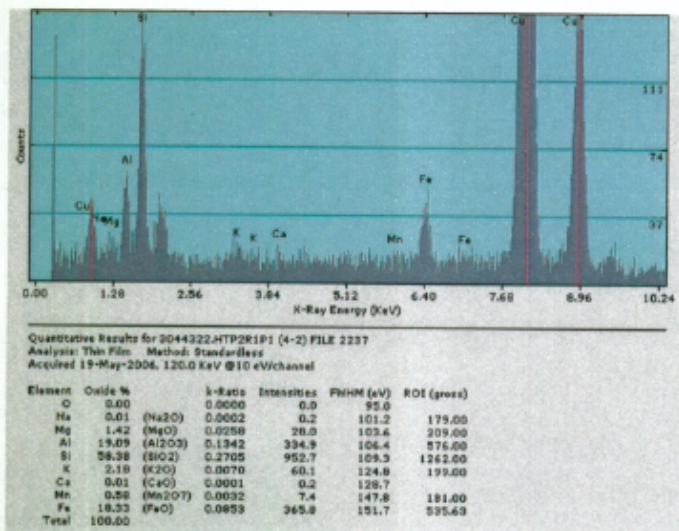
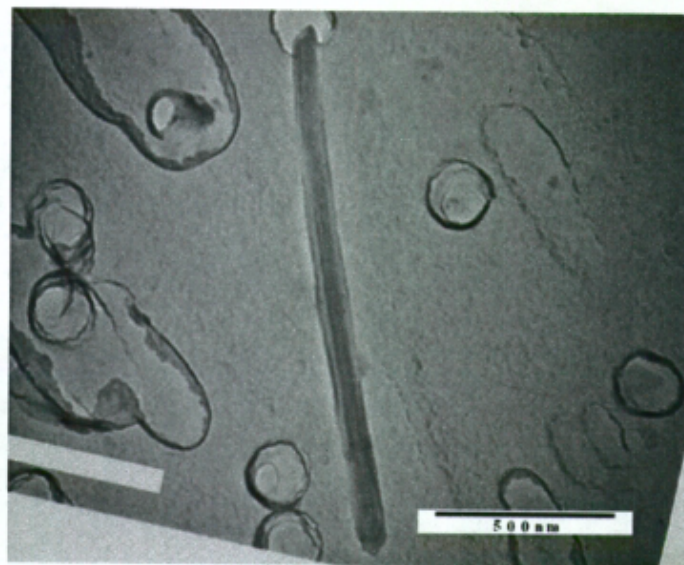
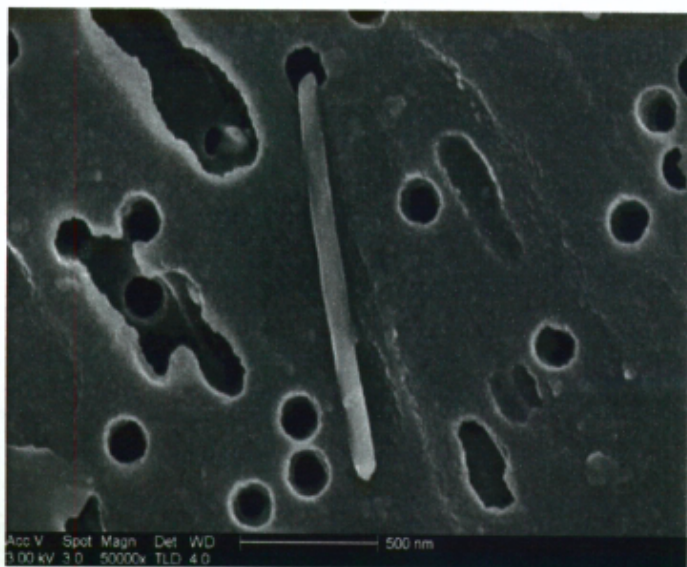


L = 1.6 W = .2 AR = 8:1

Mineral category: Serpentine

Chrysotile

RJLG # 3044322 Field 4, Fiber 1
 CPS-S101-100804-FG2 -- Soil



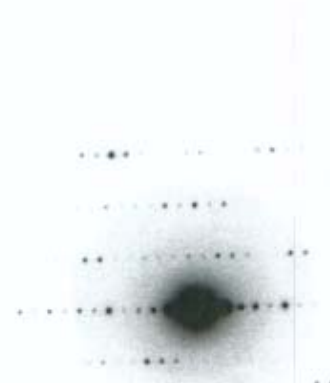
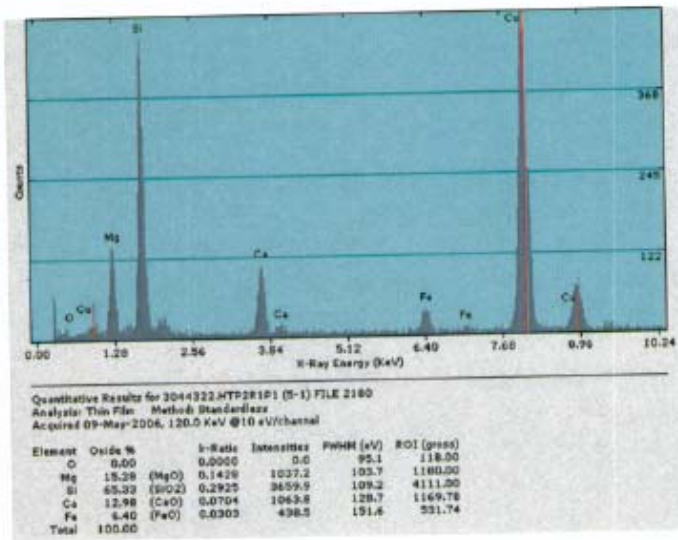
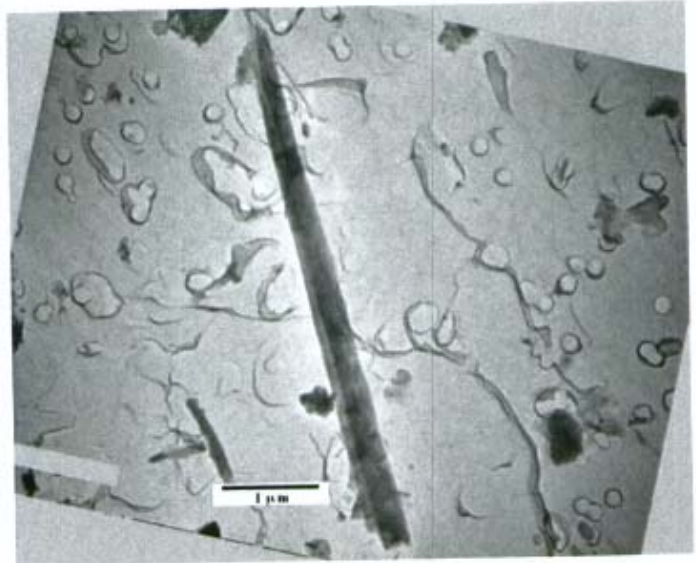
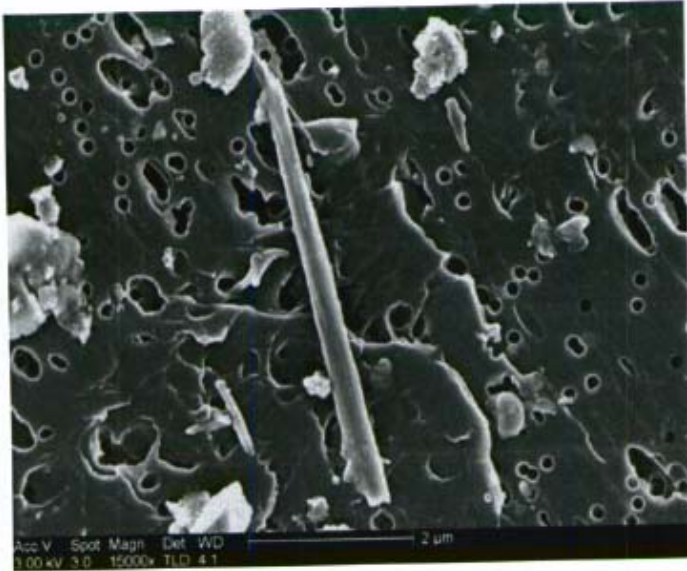
L = 1.25 W = .05 AR = 25:1

Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044322 Field 4, Fiber 2
 CPS-S101-100804-FG2 -- Soil

TEM and SEM Data

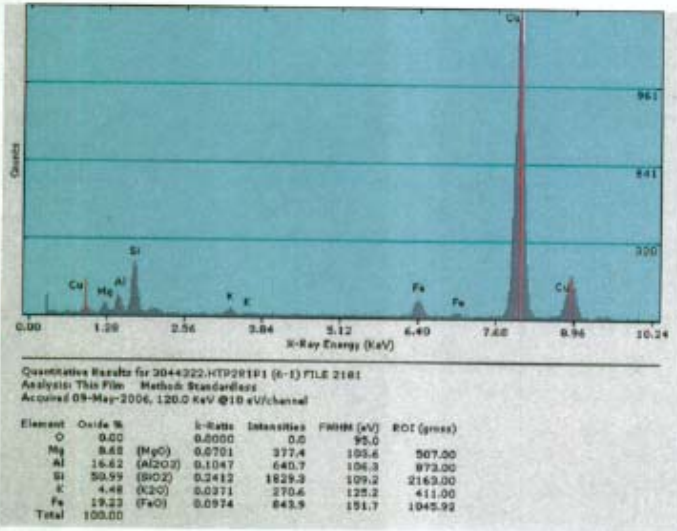
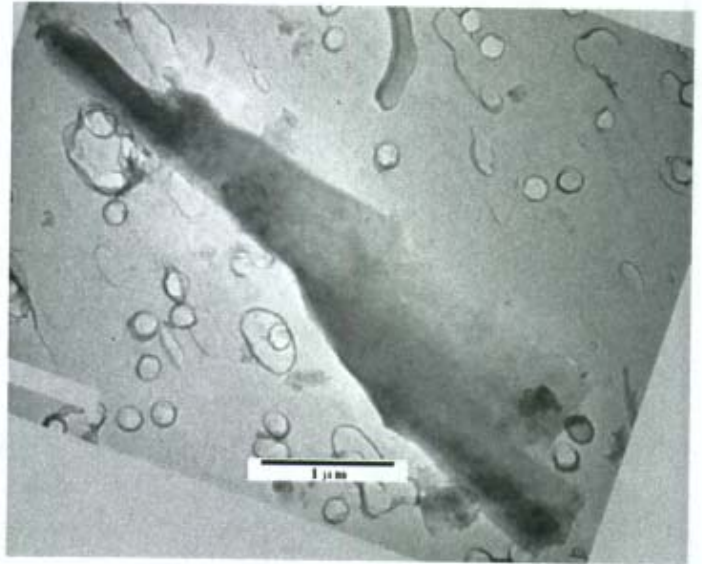


L = 4.8 W = .25 AR = 19:1

Mineral category: Amphibole

Zone	201	D1	8.97
Phi	82.3	D2	2.64

RJLG # 3044322 Field 5, Fiber 1
CPS-S101-100804-FG2 -- Soil

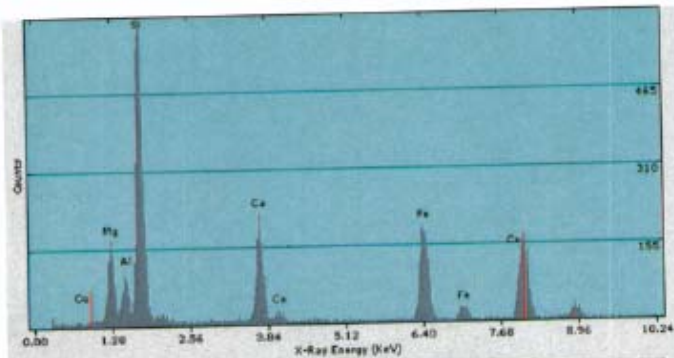
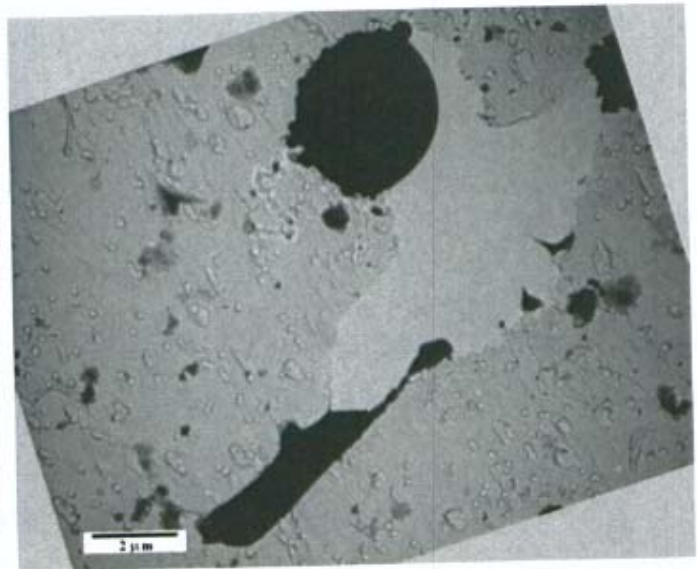
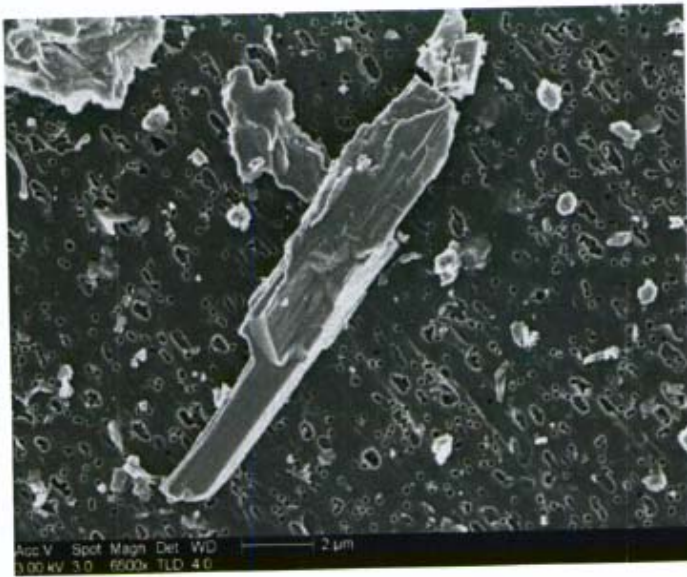


L = 4.9 W = .75 AR = 7:1

Mineral category: Amphibole

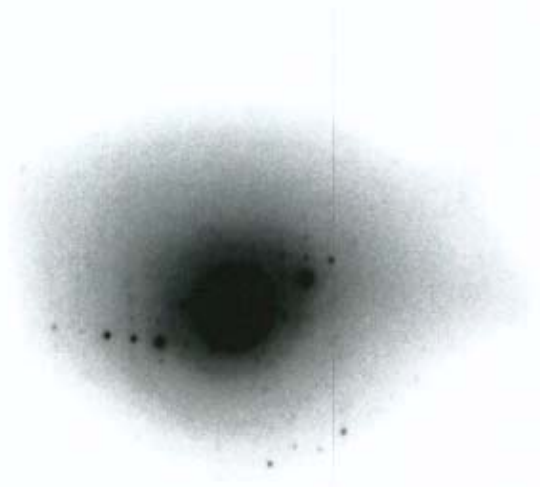
Zone	101	D1	4.65
Phi	60.6	D2	4.63

RJLG # 3044322 Field 6, Fiber 1
 CPS-S101-100804-FG2 -- Soil



Quantitative Results for 5044322.HTP2R1P1 (7-1) FILE 2182
 Analysis Thin Film Method Standardless
 Acquired 09-May-2006, 120.0 KeV @10 eV/channel

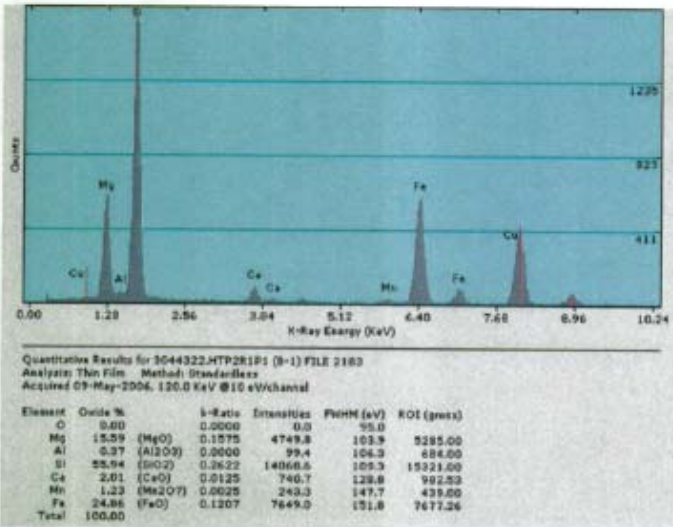
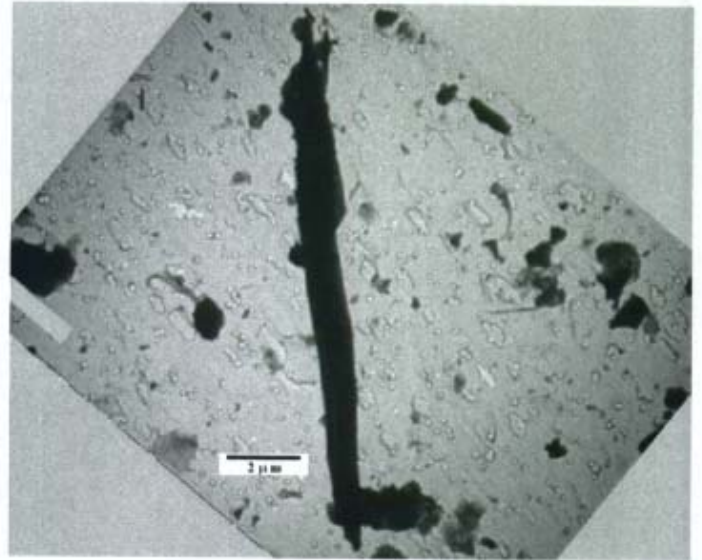
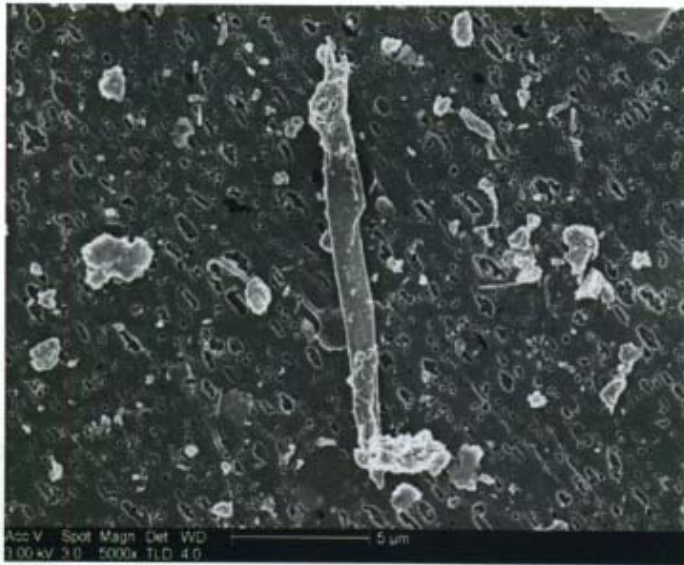
Element	Oxide %	I-Ratio	Intensity	FWHM (eV)	ROI (gross)
O	0.00	0.0000	0.0	95.0	1464.00
Mg	10.31 (MgO)	0.1005	1266.0	102.8	962.00
Al	6.44 (Al ₂ O ₃)	0.0324	701.5	106.4	5802.00
Si	51.65 (SiO ₂)	0.2313	5236.6	109.3	1934.86
Ca	11.60 (CaO)	0.0760	1718.7	126.8	2475.11
Fe	19.97 (FeO)	0.0997	2475.4	151.7	
Total	100.00				



Length and width not recorded - structure damaged
 Mineral category: Pyroxene

Zone	1-10	D1	6.6
Phi	77.4	D2	5.07

RJLG # 3044322 Field 7, Fiber 1
 CPS-S101-100804-FG2 -- Soil

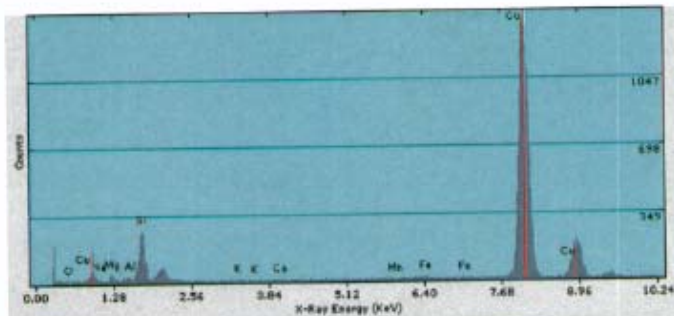
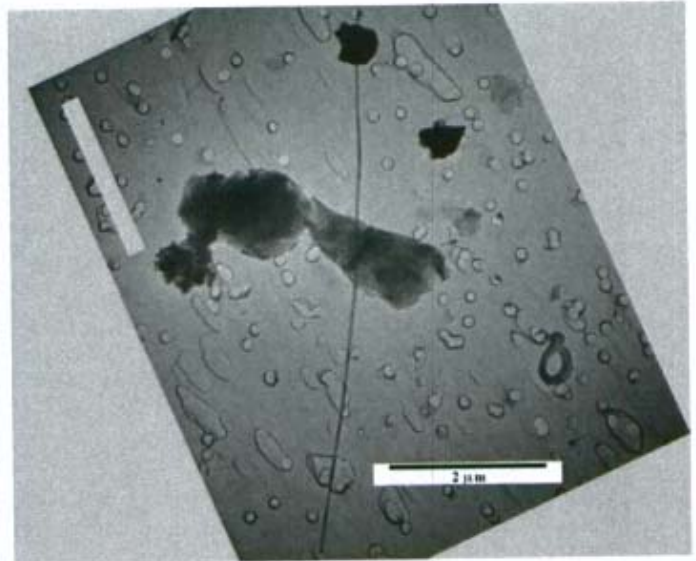
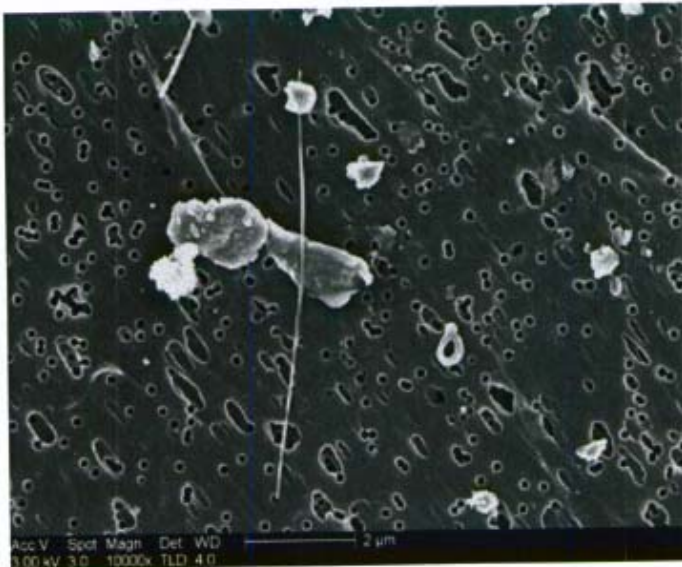


L = 14 W = 1.2 AR = 12:1

Mineral category: Clay

Zone	130	D1	5.38
Phi	89.8	D2	4.4

RJLG # 3044322 Field 8, Fiber 1
 CPS-S101-100804-FG2 -- Soil



Quantitative Results for: 3044322.HTP2R1F1 (9-1) FILE 2238
 Analysis Thin Film Method: Standardless
 Acquired 19-May-2006, 120.0 keV @10 eV/channel

Element	Oxide %	I-Ratio	Intensity	PeakM (eV)	ROI (gross)
C	0.00	0.0000	0.0	95.0	217.00
Na	0.45 (Na2O)	0.0001	14.3	101.2	291.00
Mg	4.71 (MgO)	0.0692	132.3	103.8	443.00
Al	1.82 (Al2O3)	0.0175	45.5	106.5	2516.00
Si	87.45 (SiO2)	0.2854	2029.9	109.3	218.00
K	0.53 (K2O)	0.0055	20.8	125.7	218.00
Ca	0.01 (CaO)	0.0000	0.2	126.7	241.00
Mn	0.44 (Mn2O7)	0.0000	8.1	147.7	241.00
Fe	4.37 (FeO)	0.0156	125.7	151.5	393.00
Total	100.00				

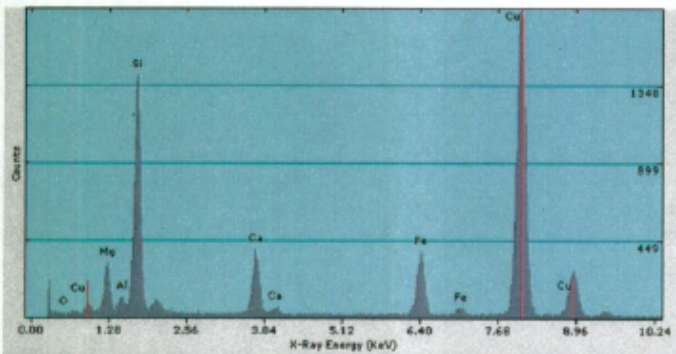
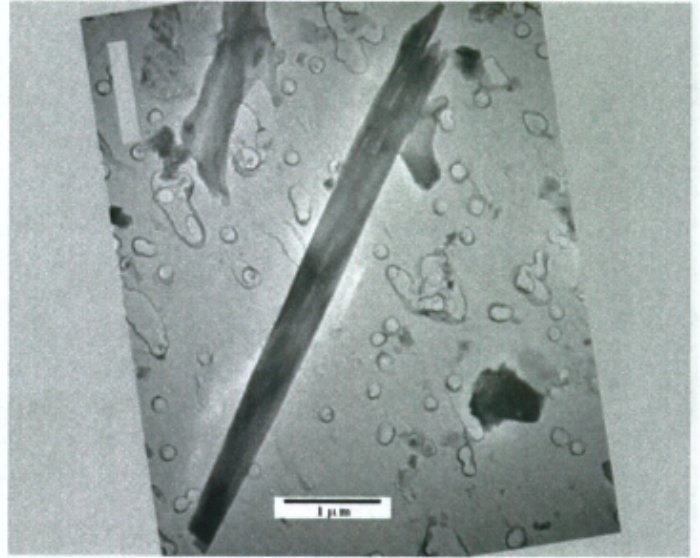


Chrysotile

L = 6.2 W = .05 AR = 124:1

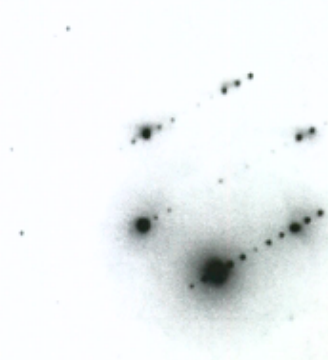
Mineral category: Serpentine

RJLG # 3044322 Field 9, Fiber 1
 CPS-S101-100804-FG2 -- Soil



Quantitative Results for 3044322.HTP2R1P1 (10-1) FILE 2184
 Analysis: Thin Film Method: Standardless
 Acquired 09-May-2006, 120.0 KeV @10 eV/channel

Element	Grade %	L-Ratio	Intensity	FWHM (eV)	ROI (gross)
O	0.00	0.0000	0.0	95.1	335.94
Mg	9.28 (MgO)	0.0946	2312.9	103.8	2849.00
Al	2.64 (Al ₂ O ₃)	0.0105	584.8	106.4	1265.00
Si	58.98 (SiO ₂)	0.2925	12139.1	109.2	13350.00
Ca	11.61 (CaO)	0.0722	3496.3	128.8	4000.33
Fe	17.49 (FeO)	0.0915	4403.1	151.7	4730.06
Total	100.00				



L = 6.1 W = .5 AR = 12:1

Mineral category: Amphibole

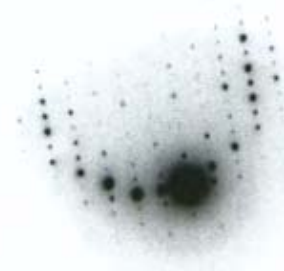
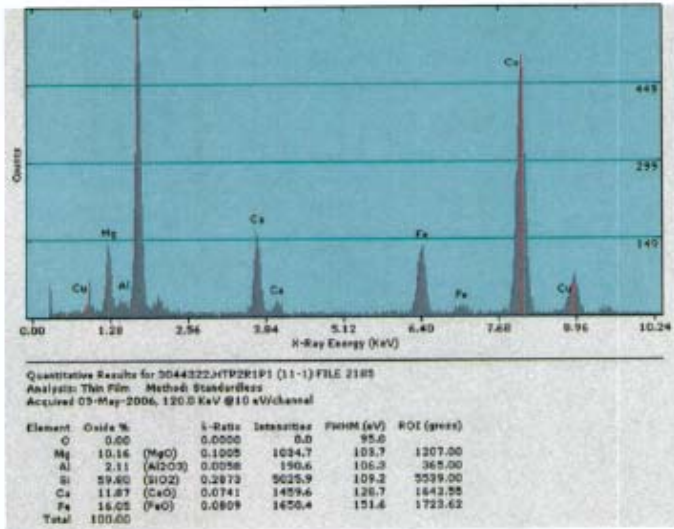
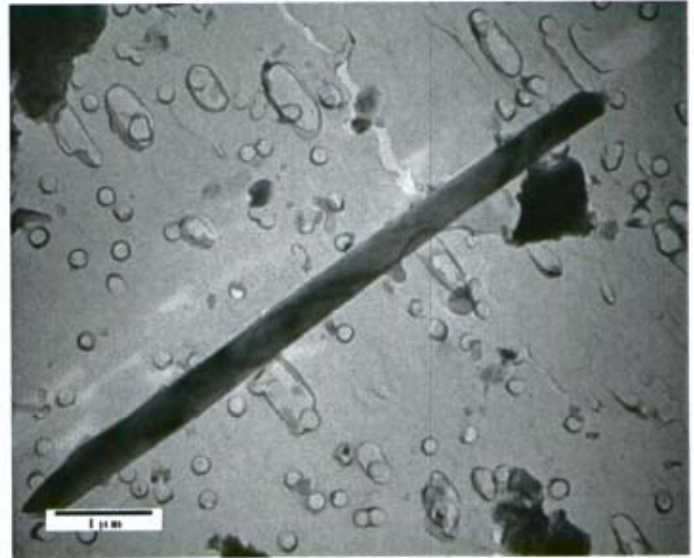
Zone 10-4

D1 9.13

Phi 89.2

D2 1.78

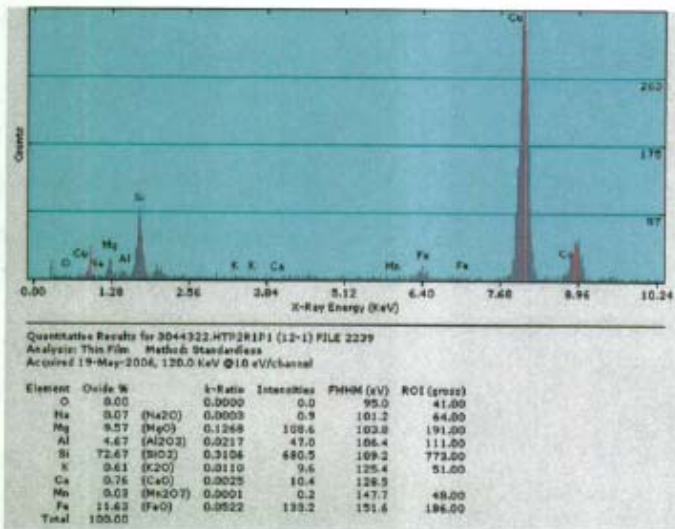
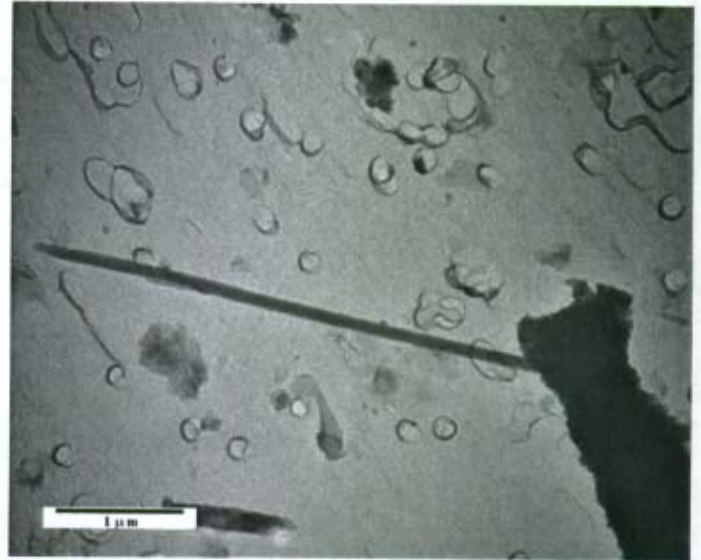
RJLG # 3044322 Field 10, Fiber 1
 CPS-S101-100804-FG2 -- Soil



L = 6.25 W = .3 AR = 21:1
 Mineral category: Amphibole

Zone 100 D1 9.12
 Phi 89.7 D2 5.16

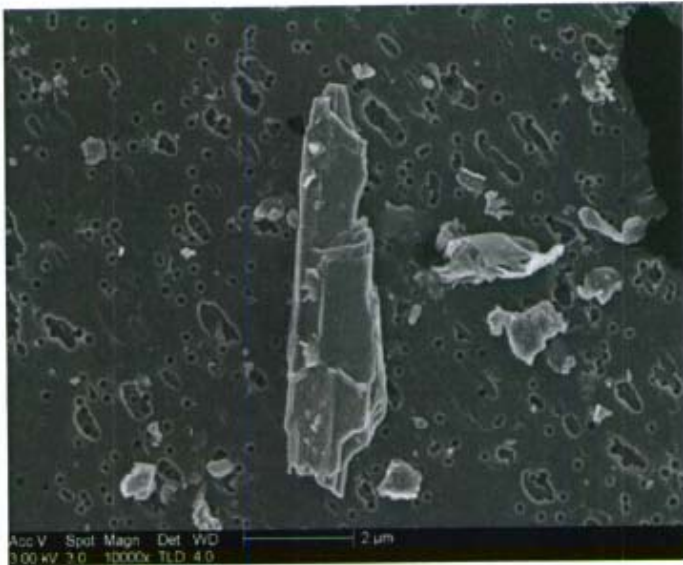
RJLG # 3044322 Field 11, Fiber 1
 CPS-S101-100804-FG2 -- Soil



L = 3.5 W = .05 AR = 70:1
 Mineral category: Serpentine

Chrysotile

RJLG # 3044322 Field 12, Fiber 1
 CPS-S101-100804-FG2 -- Soil

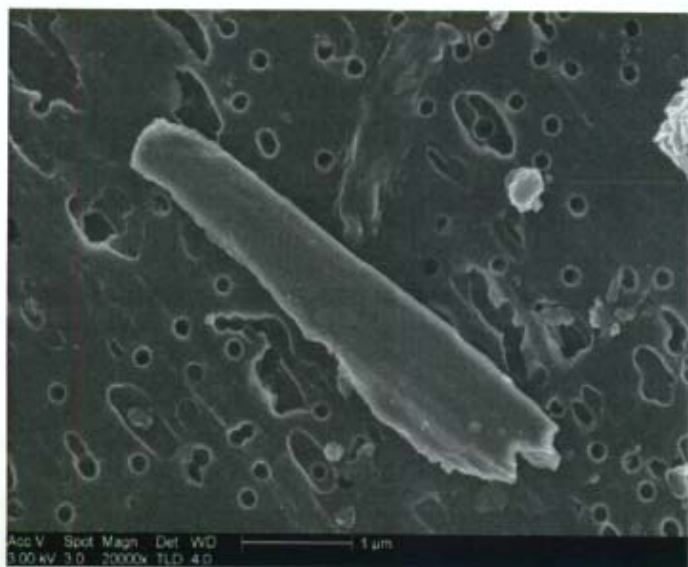


No EDS image acquired

No SAED pattern acquired

Length and width not recorded - structure damaged
Mineral category: Unknown

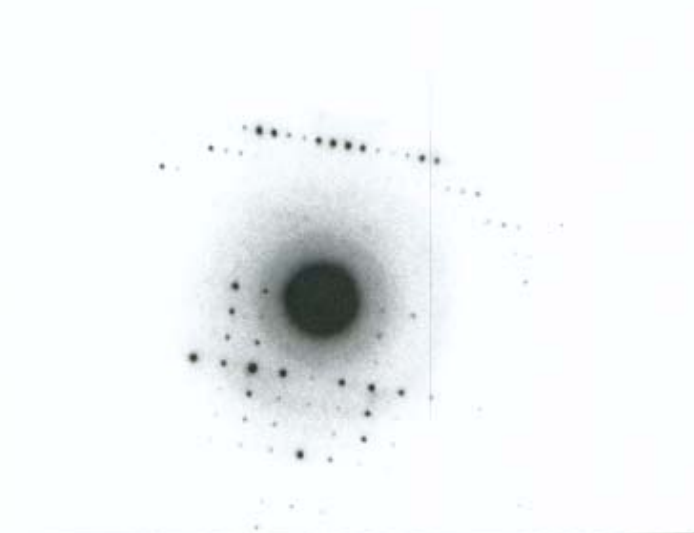
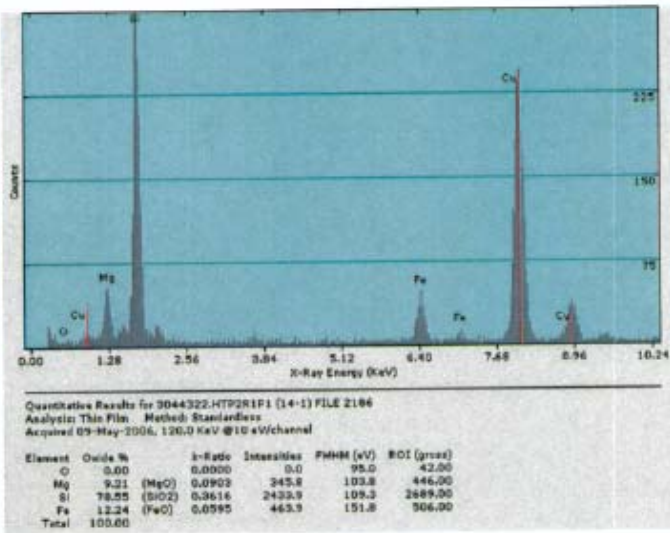
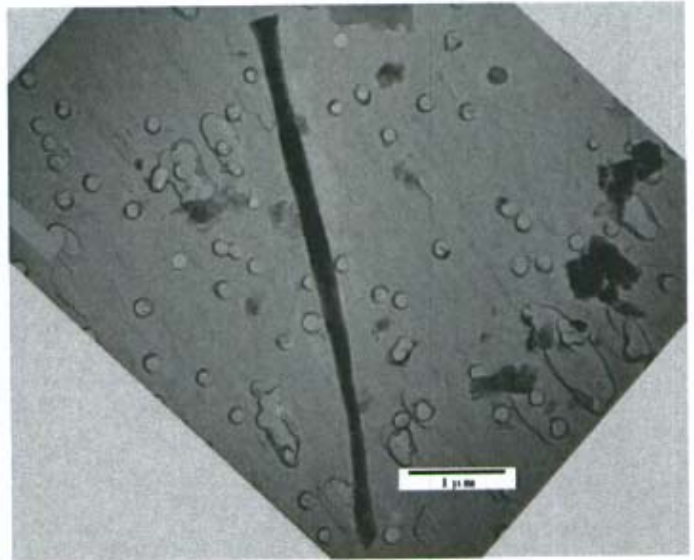
RJLG # 3044322 Field 13, Fiber 1
CPS-S101-100804-FG2 -- Soil



TEM could not relocate

Mineral category: Unknown

RJLG # 3044322 Field 13, Fiber 2
CPS-S101-100804-FG2 -- Soil

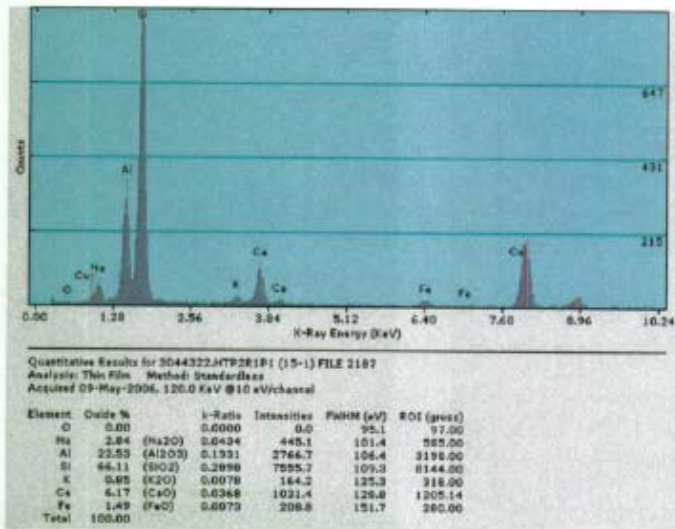
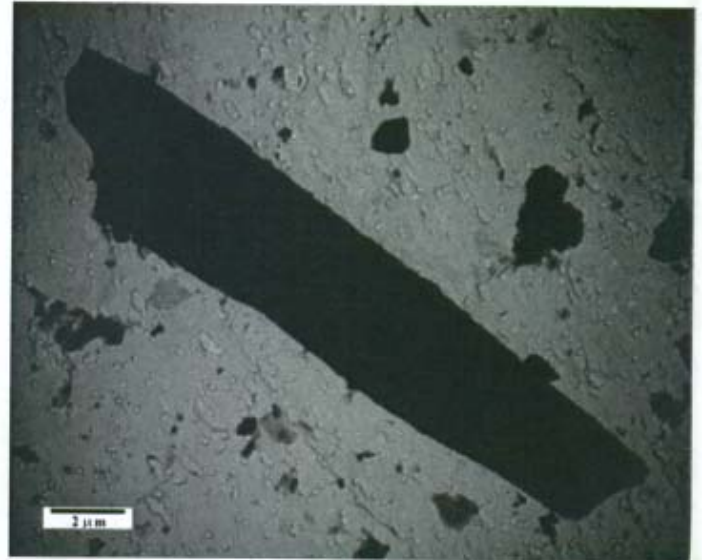


L = 5 W = .2 AR = 25:1

Mineral category: Amphibole

Zone	100	D1	8.82
Phi	89.2	D2	5.34

RJLG # 3044322 Field 14, Fiber 1
 CPS-S101-100804-FG2 -- Soil

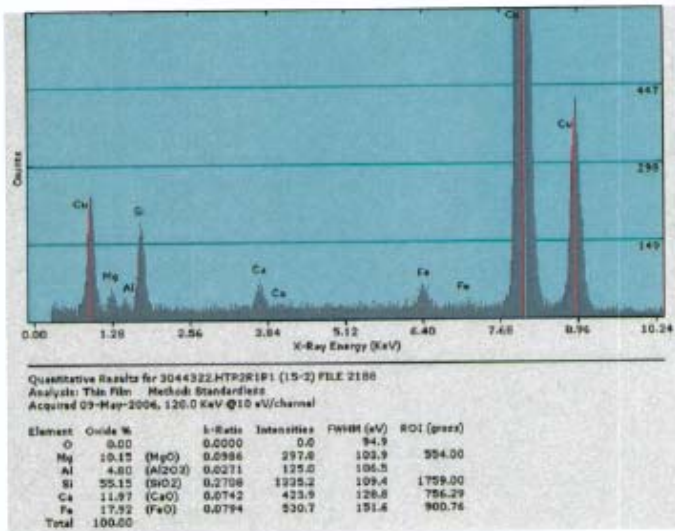
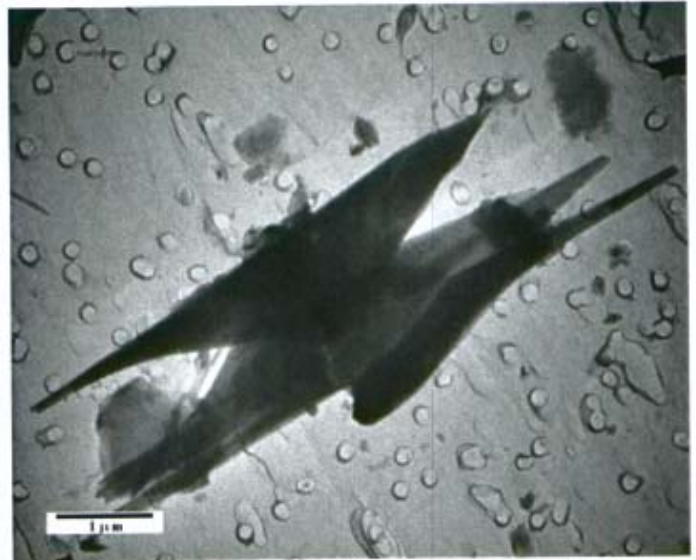


L = 18.5 W = 3.5 AR = 5:1

Mineral category: Clay/Mica

No SAED pattern acquired

RJLG # 3044322 Field 15, Fiber 1
 CPS-S101-100804-FG2 -- Soil

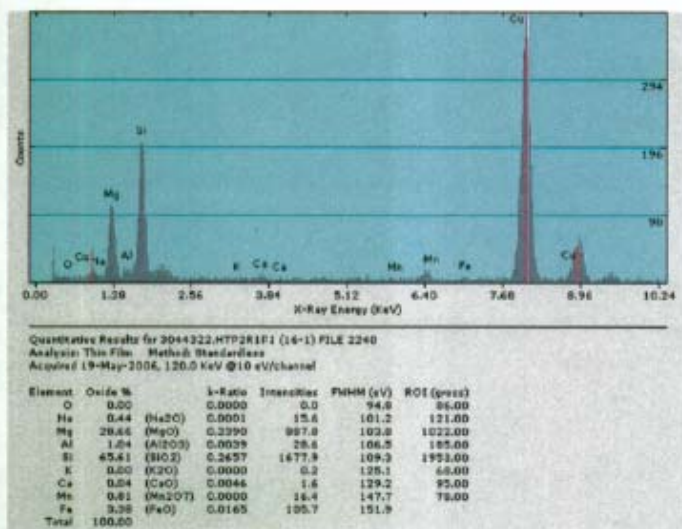
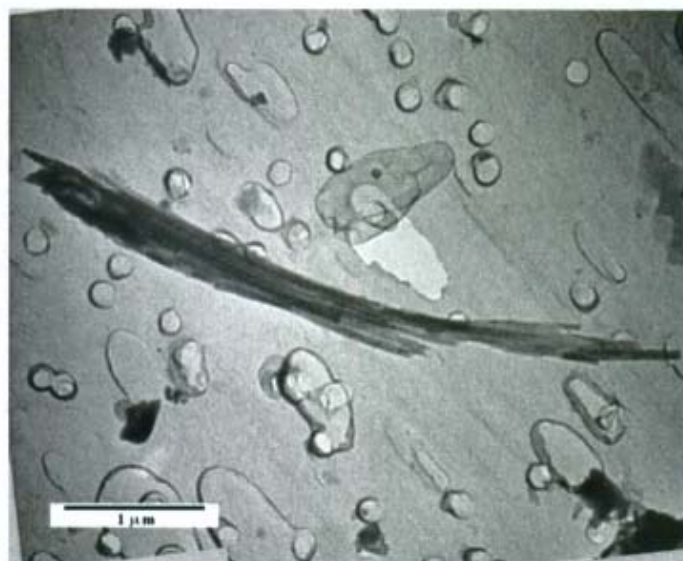


L = 6.3 W = 1.5 AR = 4:1

Mineral category: Amphibole

No SAED pattern acquired

RJLG # 3044322 Field 15, Fiber 2
CPS-S101-100804-FG2 -- Soil

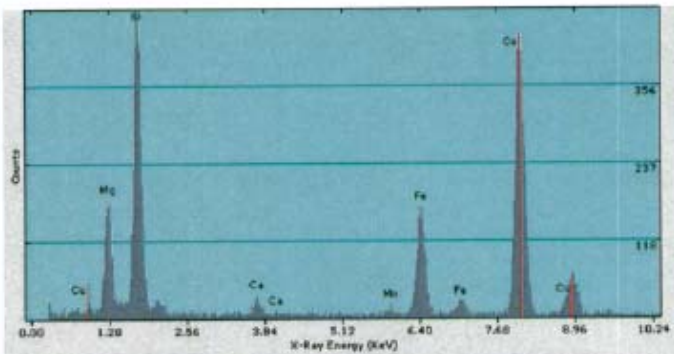
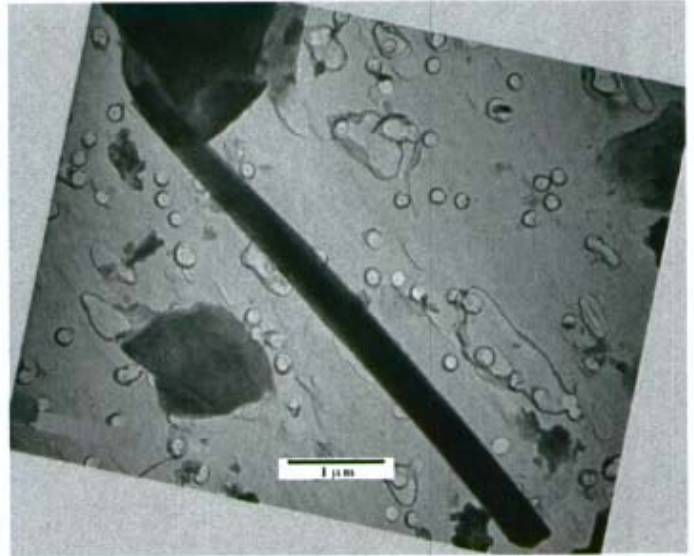
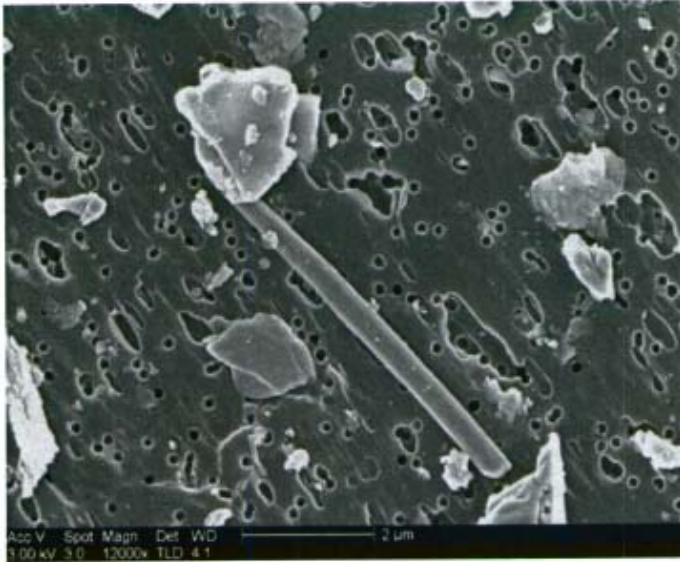


L = 4.6 W = .25 AR = 18:1

Mineral category: Serpentine

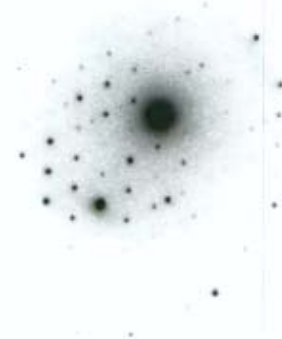
Chrysotile

RJLG # 3044322 Field 16, Fiber 1
 CPS-S101-100804-FG2 -- Soil



Quantitative Results for 3044322.J7P2R1P1 (17-1) FILE 2189
 Analysis: This File Method: Standardless
 Acquired: 09-May-2006, 120.0 KeV @10 nV/channel

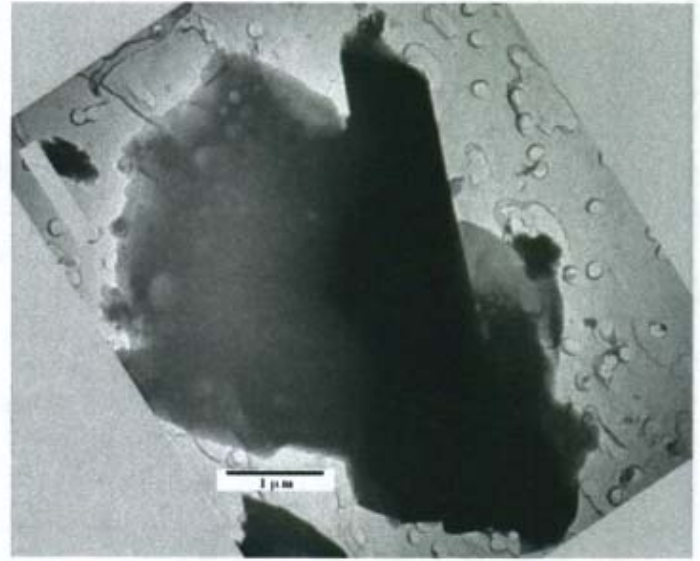
Element	Oxide %	k-Ratio	Intensity	FWHM (eV)	ROI (gross)
O	0.00	0.0000	0.0	34.9	1590.00
Mg	15.53 (MgO)	0.1564	1321.4	103.9	4475.00
Si	57.71 (SiO2)	0.2628	4054.3	109.3	306.00
Ca	3.01 (CaO)	0.0125	206.2	128.8	179.00
Mn	1.69 (Mn2O7)	0.0035	59.3	147.7	1992.73
Fe	23.07 (FeO)	0.1195	1992.1	151.7	
Total	106.00				



L = 6 W = .35 AR = 17:1
 Mineral category: Pyroxene

Zone	None Found	D1	8.65
Phi	87.6	D2	5.25

RJLG # 3044322 Field 17, Fiber 1
 CPS-S101-100804-FG2 -- Soil

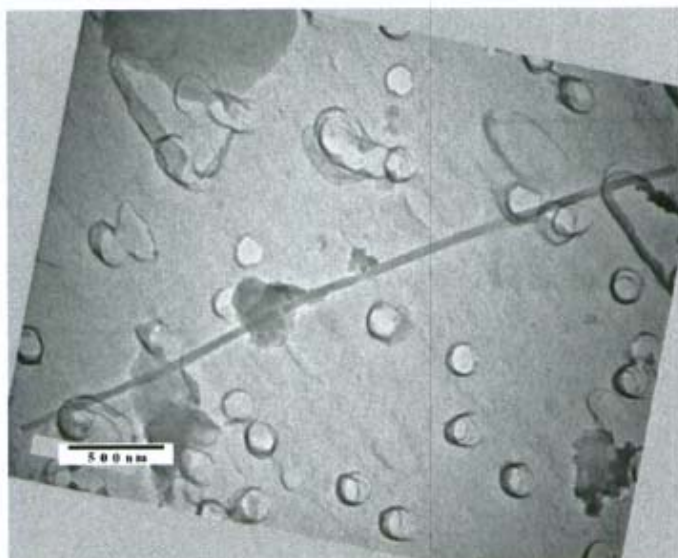
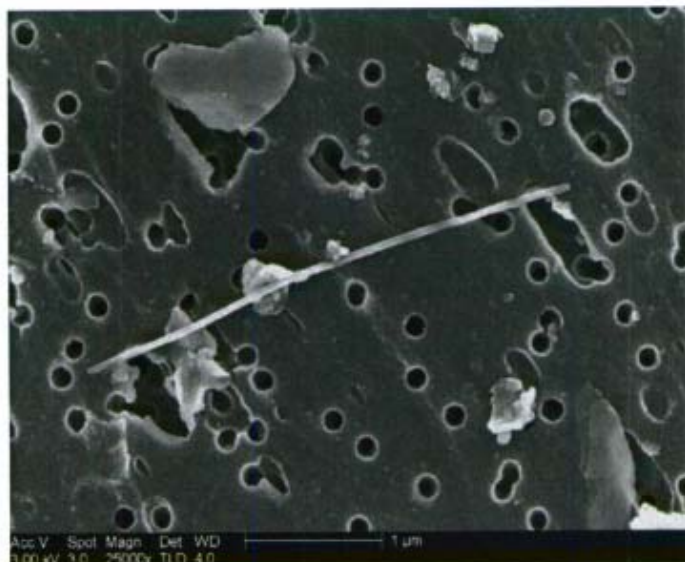


No EDS image acquired - structure damaged

L = 6.3 W = 1.5 AR = 4:1
Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044322 Field 18, Fiber 1
CPS-S101-100804-FG2 -- Soil



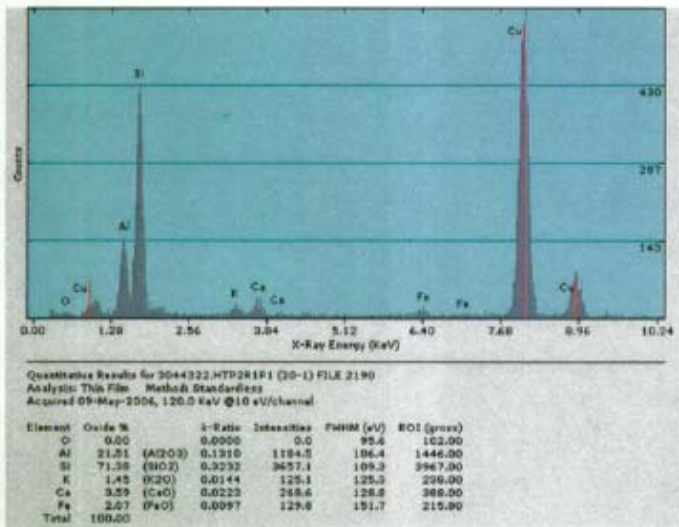
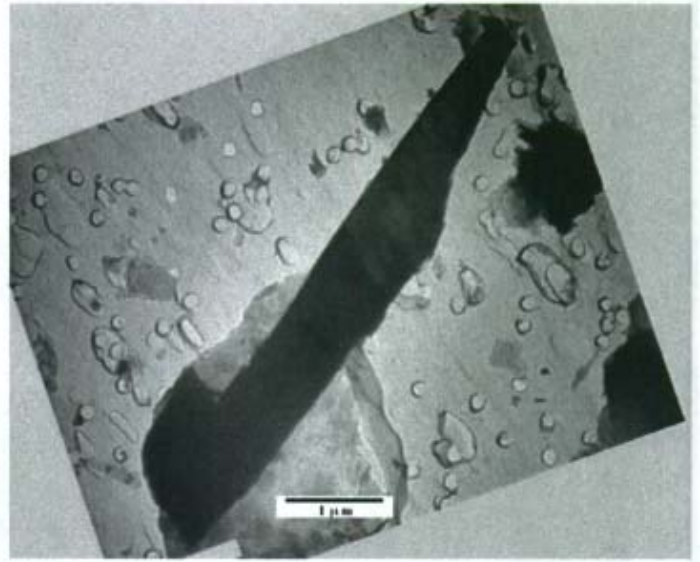
MgSi - Chrysotile

L = 3.4 W = .03 AR = 113:1

Mineral category: Serpentine

No SAED pattern acquired

RJLG # 3044322 Field 19, Fiber 1
CPS-S101-100804-FG2 -- Soil

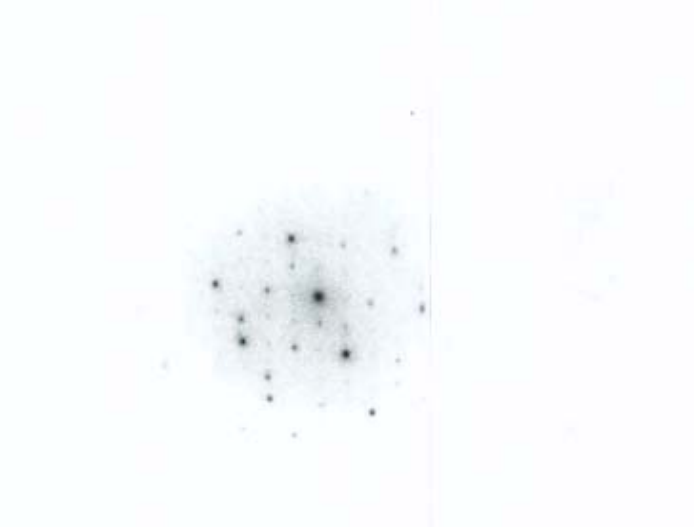
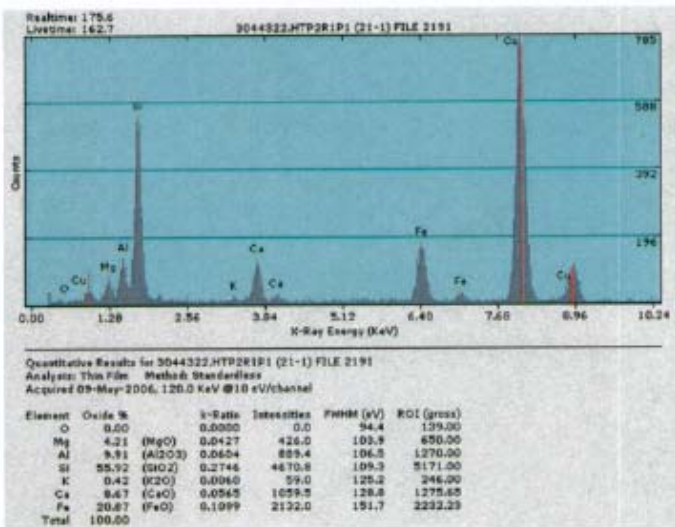
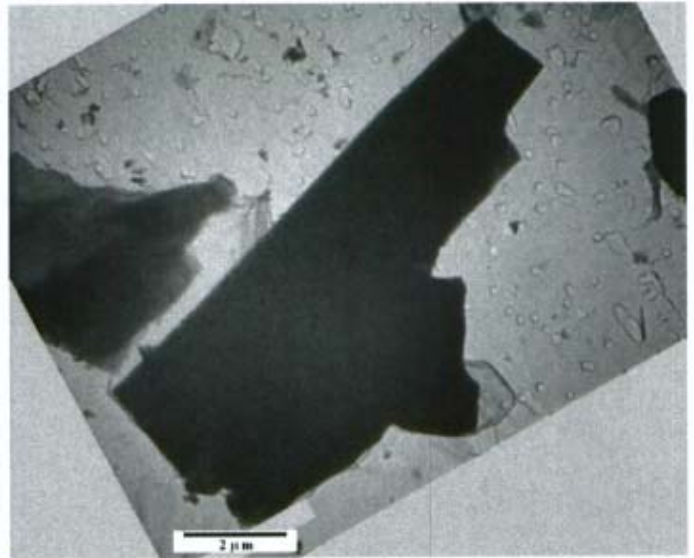
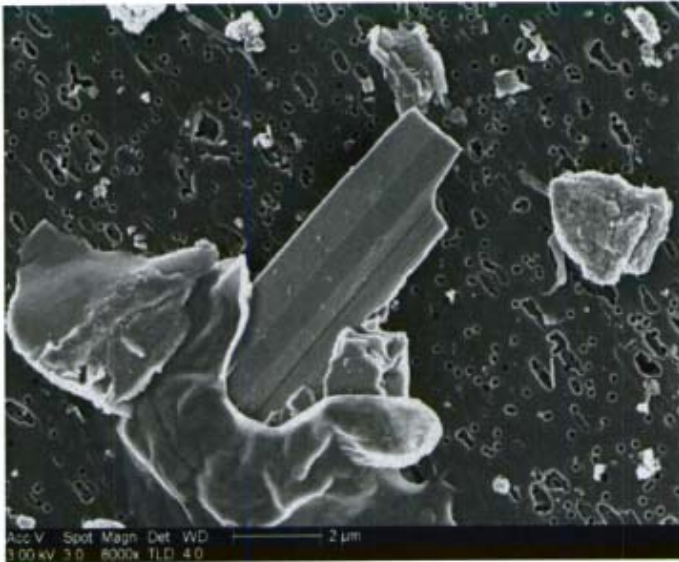


SAED not measured

L = 6 W = .8 AR = 8:1

Mineral category: Clay/Mica

RJLG # 3044322 Field 20, Fiber 1
 CPS-S101-100804-FG2 -- Soil



L = 9.5 W = 2.5 AR = 4:1
Mineral category: Amphibole

Zone 3-10 D1 5.13
Phi 80.9 D2 5.1

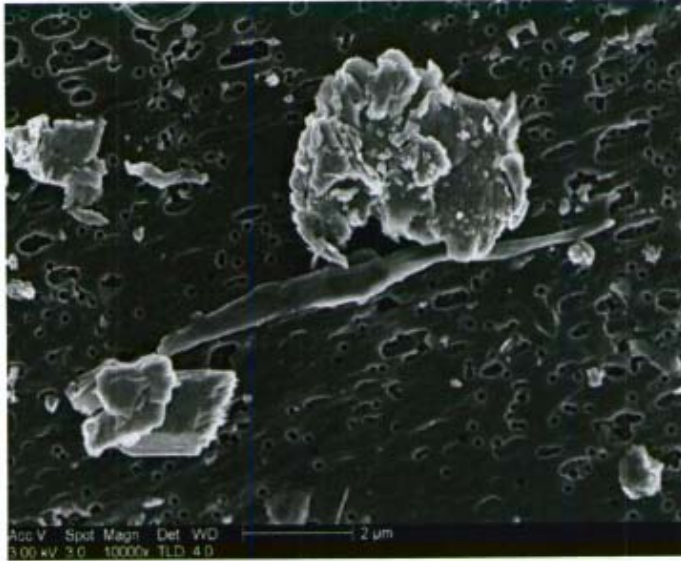
RJLG # 3044322 Field 21, Fiber 1
CPS-S101-100804-FG2 -- Soil



TEM could not relocate

Mineral category: Unknown

RJLG # 3044322 Field 22, Fiber 1
CPS-S101-100804-FG2 -- Soil



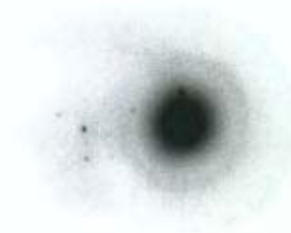
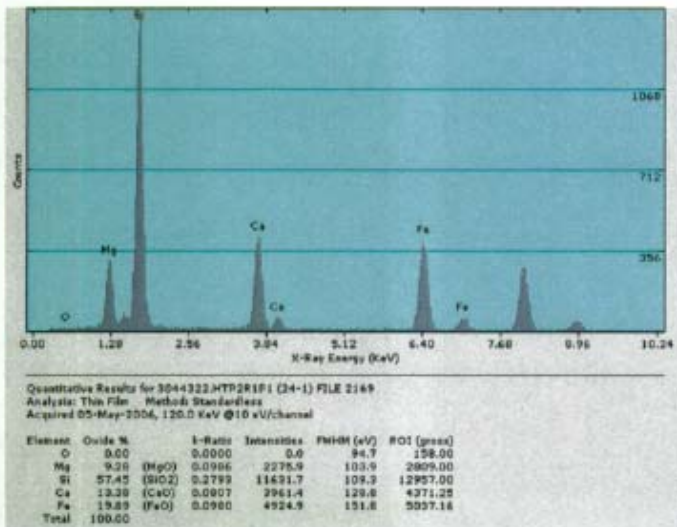
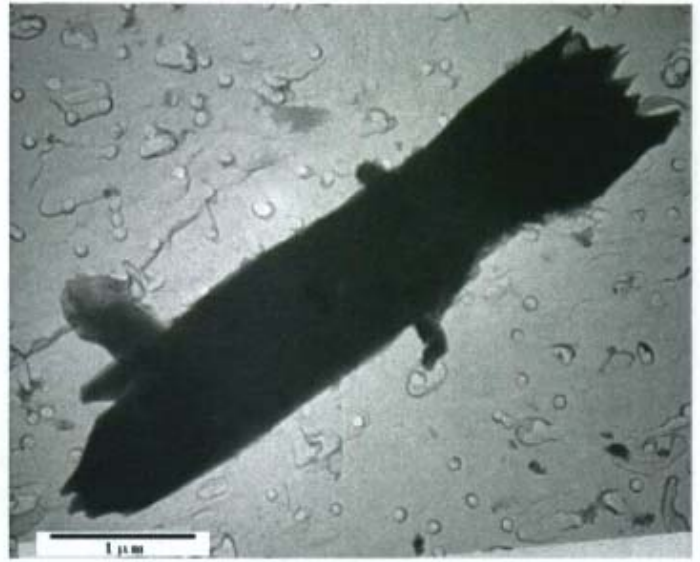
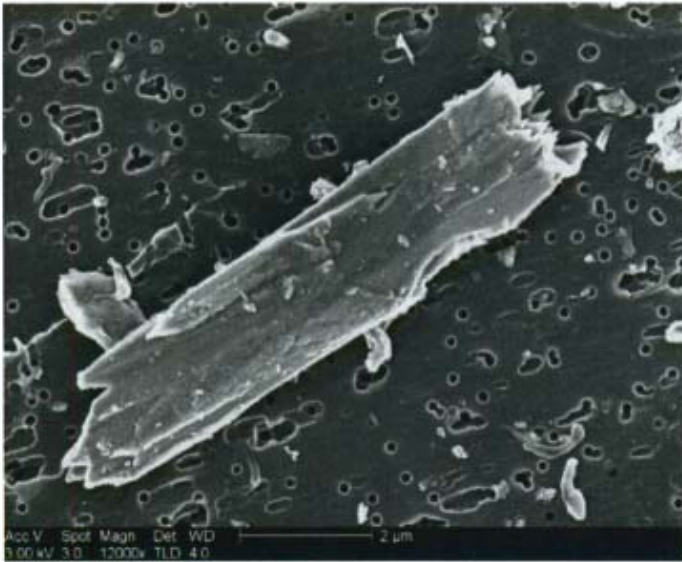
No EDS image acquired - organic

Length and width not recorded

Mineral category: Unknown

SAED not measured

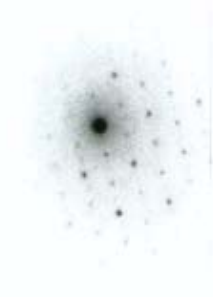
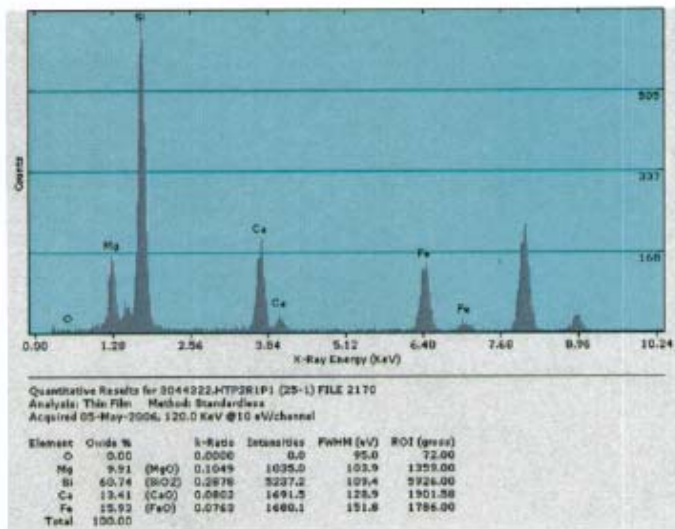
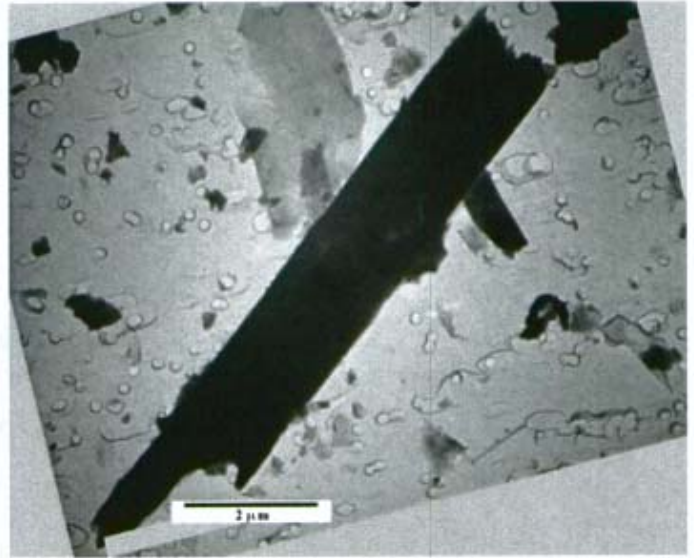
RJLG # 3044322 Field 23, Fiber 1
CPS-S101-100804-FG2 -- Soil



L = 8 W = 1.75 AR = 5:1
 Mineral category: Amphibole

SAED not measured

RJLG # 3044322 Field 24, Fiber 1
 CPS-S101-100804-FG2 -- Soil

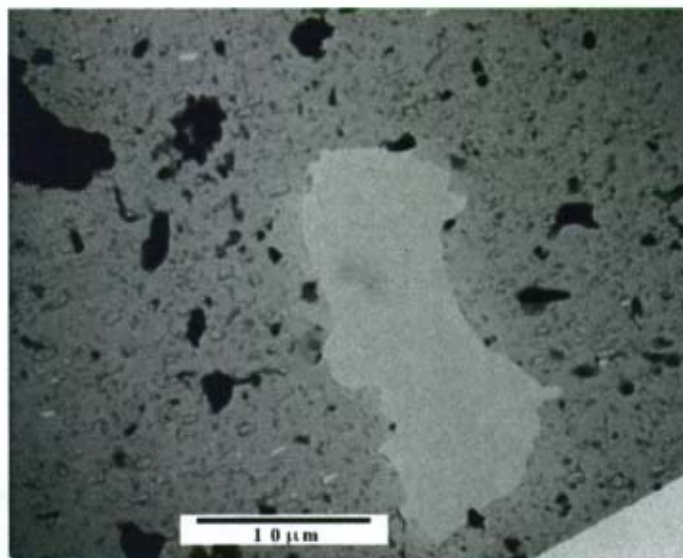
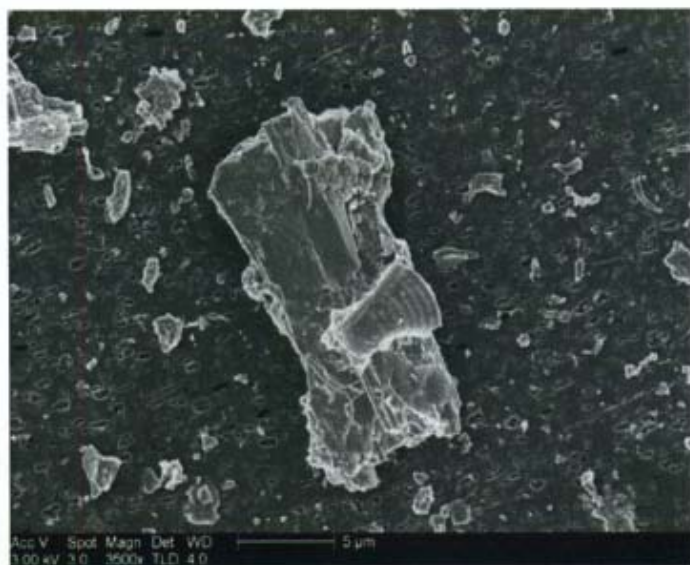


L = 8.4 W = 1.3 AR = 6:1

Mineral category: Amphibole

Zone	100	D1	9.2
Phi	88.4	D2	5.19

RJLG # 3044322 Field 25, Fiber 1
CPS-S101-100804-FG2 -- Soil



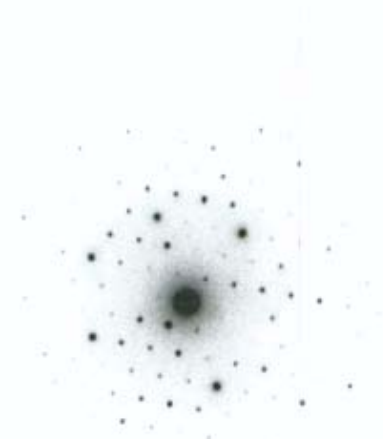
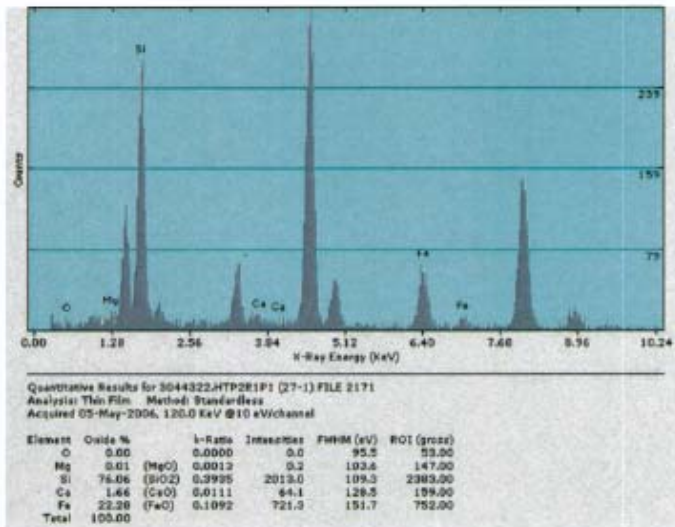
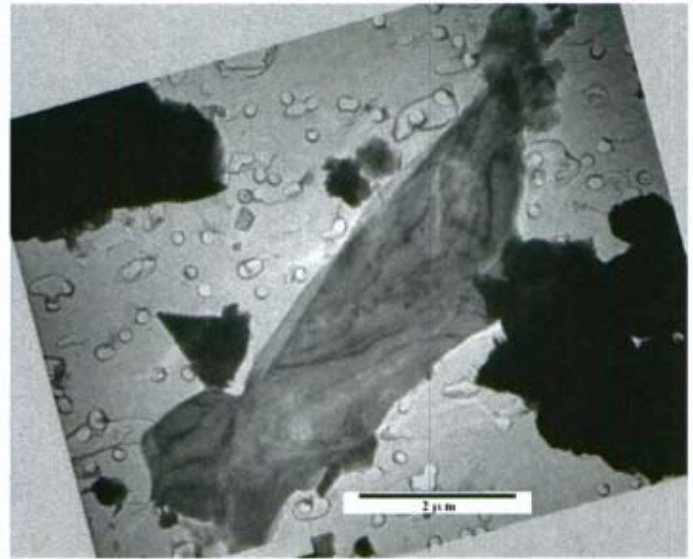
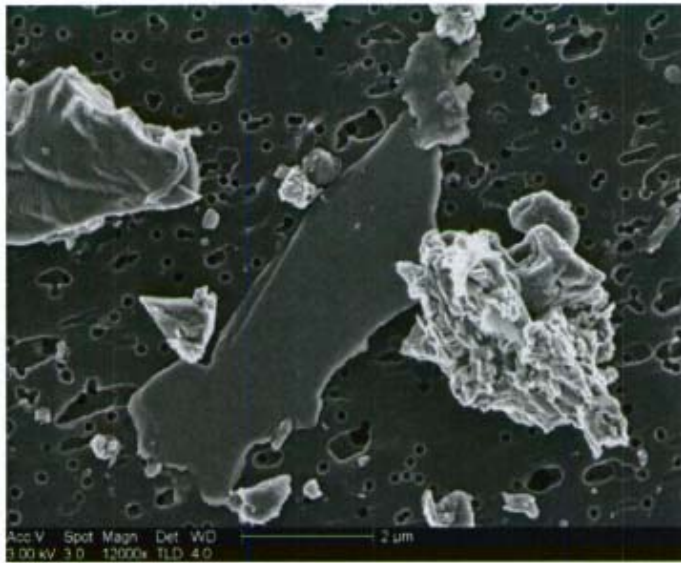
No EDS image acquired

Length and width not recorded - structure volatilized

Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044322 Field 26, Fiber 1
CPS-S101-100804-FG2 -- Soil



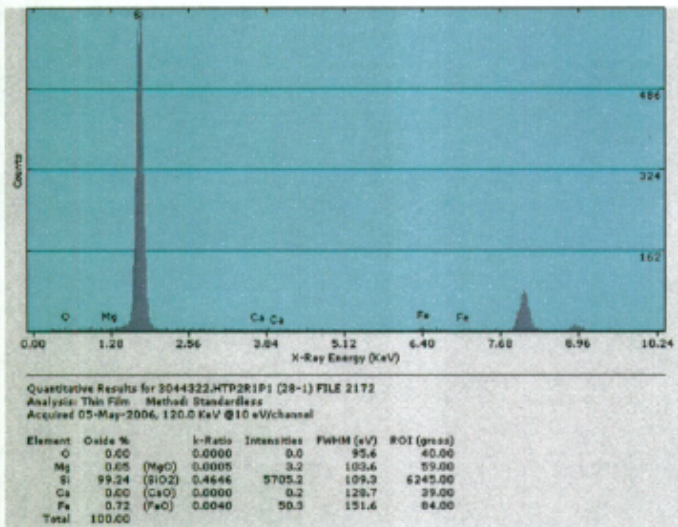
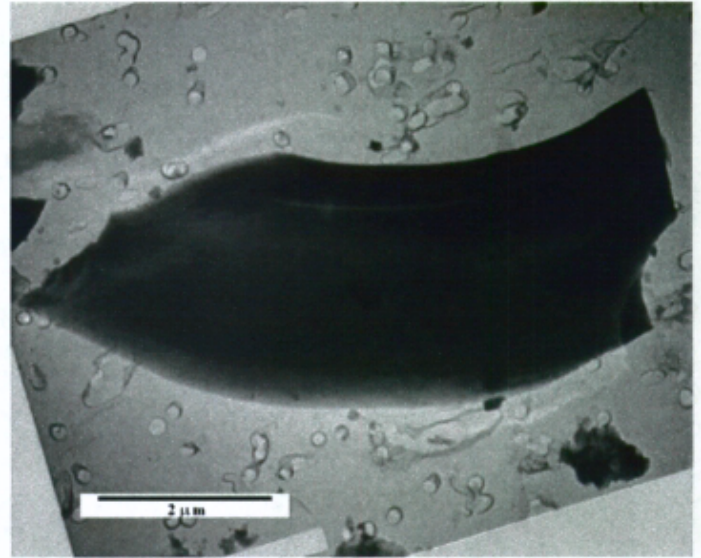
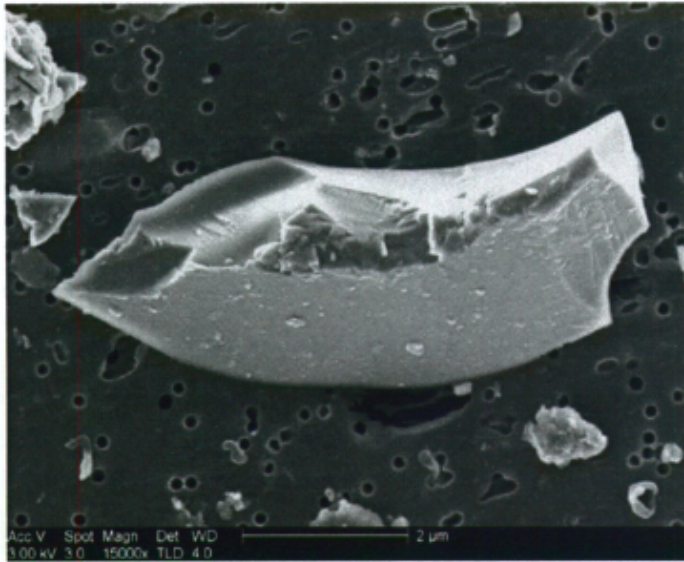
L = 8.4 W = 1.3 AR = 6:1

Mineral category: Sheet Silicate

Zone 101 D1 4.63

Phi 60.2 D2 4.61

RJLG # 3044322 Field 27, Fiber 1
 CPS-S101-100804-FG2 -- Soil

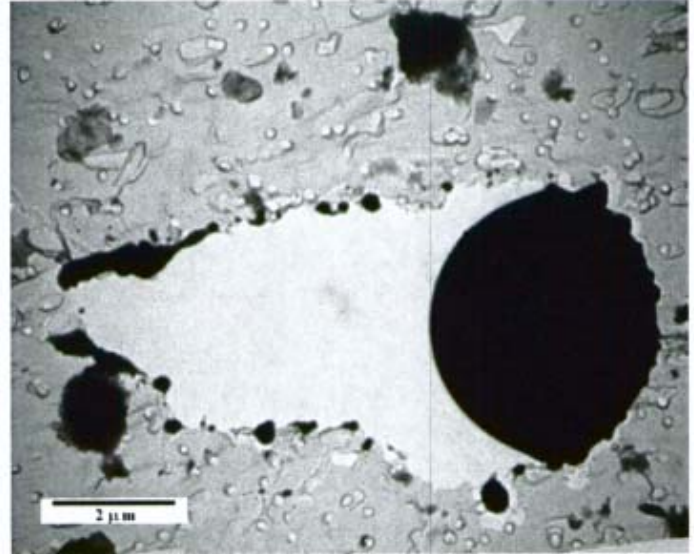
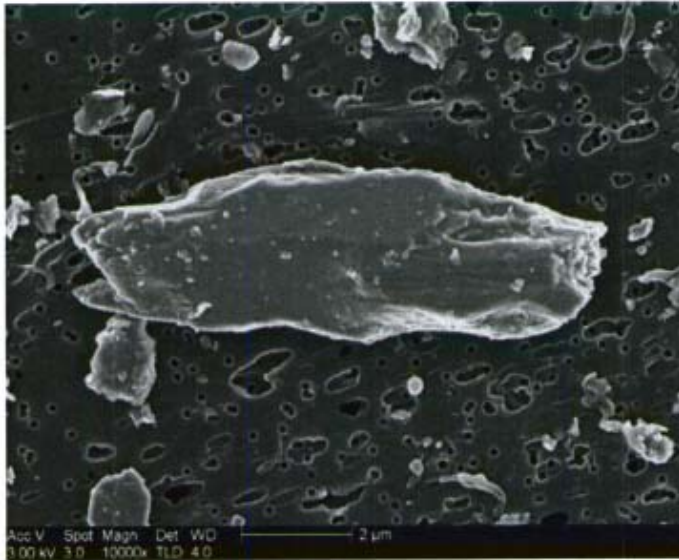


L = 7 W = 2.5 AR = 3:1

Mineral category: Quartz

No SAED pattern acquired

RJLG # 3044322 Field 28, Fiber 1
CPS-S101-100804-FG2 -- Soil



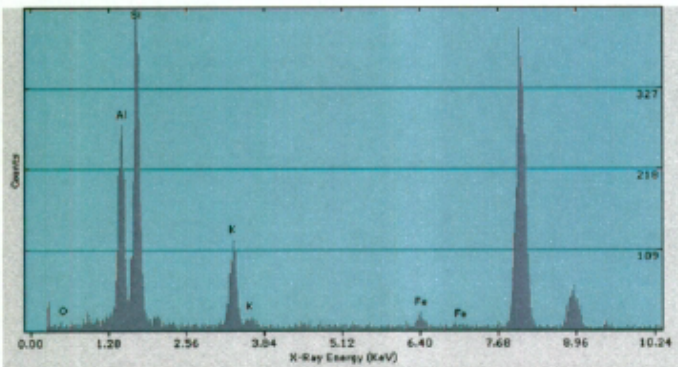
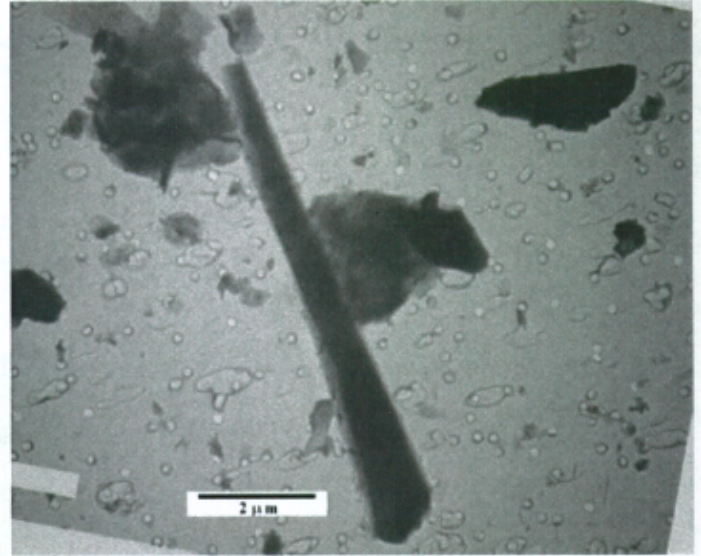
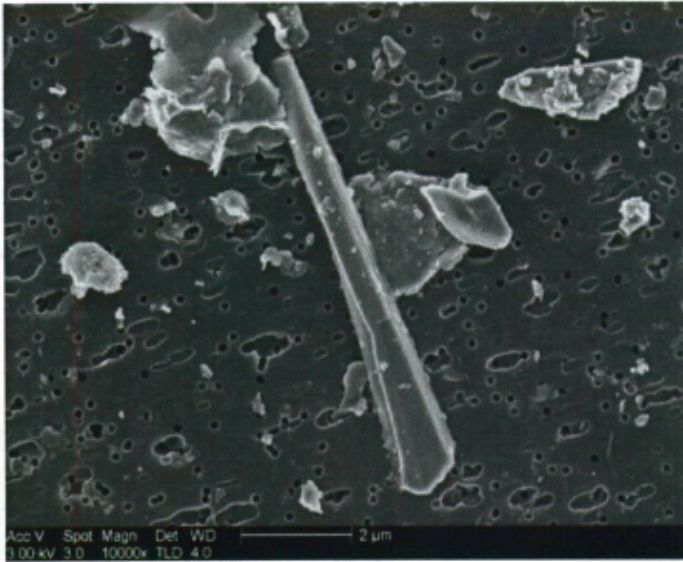
No EDS image acquired

Length and width not recorded - structure damaged

Mineral category: Unknown

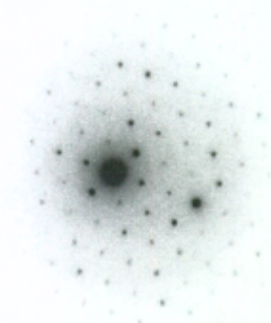
No SAED pattern acquired

RJLG # 3044322 Field 29, Fiber 1
CPS-S101-100804-FG2 -- Soil



Quantitative Results for 3044322.HTP2R1P1 (30-1) FILE 2173
 Analysis: This File: Metho & Standardless
 Acquired 05-May-2006, 120.0 KeV @10 eV/channel

Element	Oxide %	λ-Ratio	Intensity	FWHM (eV)	ROI (gross)
O	0.00	0.0000	0.0	95.2	81.00
Al	33.21 (Al ₂ O ₃)	0.2052	2386.6	106.4	2491.11
Si	54.93 (SiO ₂)	0.2255	3519.3	109.3	3861.00
K	9.42 (K ₂ O)	0.0784	1038.4	125.3	1172.45
Fe	2.25 (FeO)	0.0109	174.2	151.4	240.93
Total	100.00				

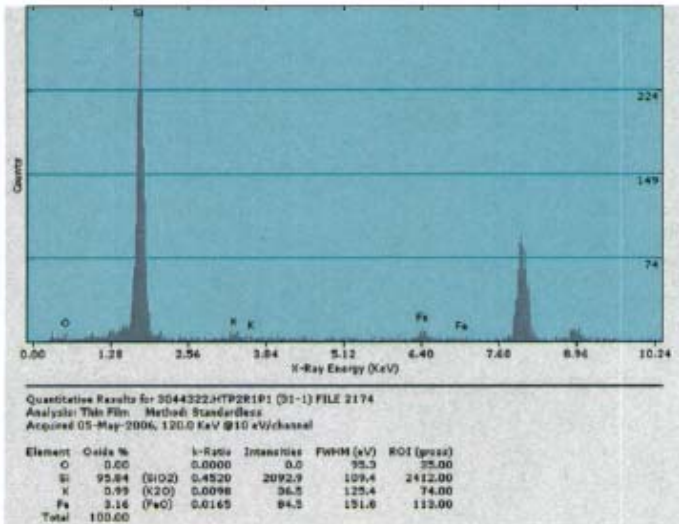
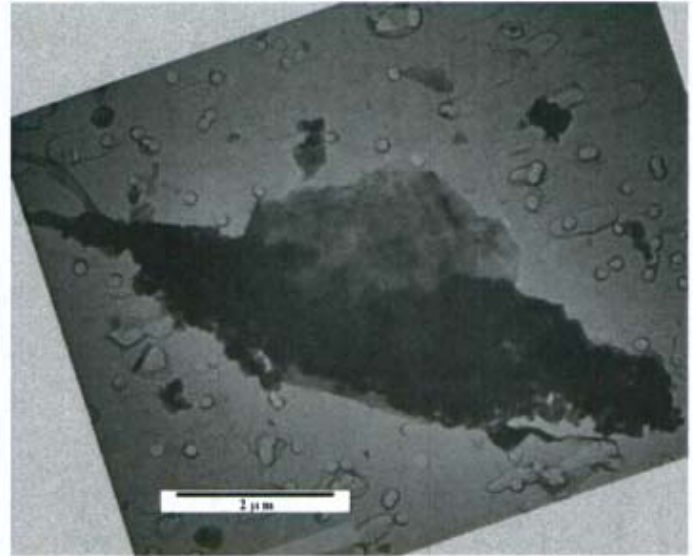


L = 7.2 W = .6 AR = 12:1

Mineral category: Mica

Zone	101	D1	4.58
Phi	59.7	D2	4.57

RJLG # 3044322 Field 30, Fiber 1
 CPS-S101-100804-FG2 -- Soil



Length and width not recorded

No SAED pattern acquired

Mineral category: Quartz

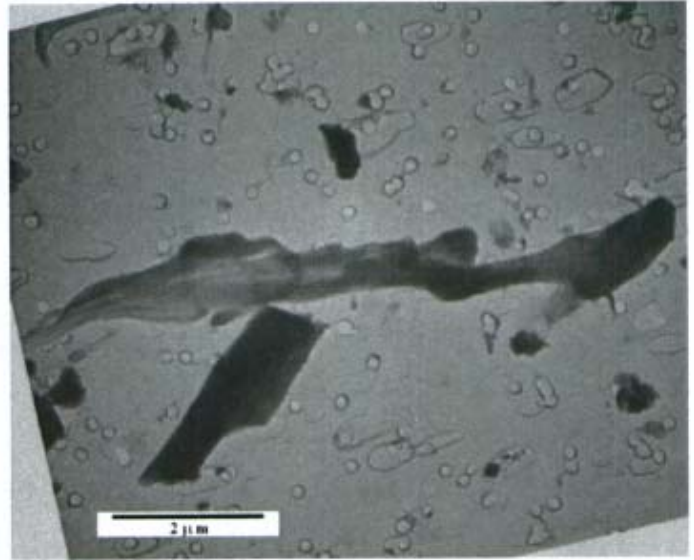
RJLG # 3044322 Field 31, Fiber 1
 CPS-S101-100804-FG2 -- Soil



TEM could not relocate

Mineral category: Unknown

RJLG # 3044322 Field 31, Fiber 2
CPS-S101-100804-FG2 -- Soil



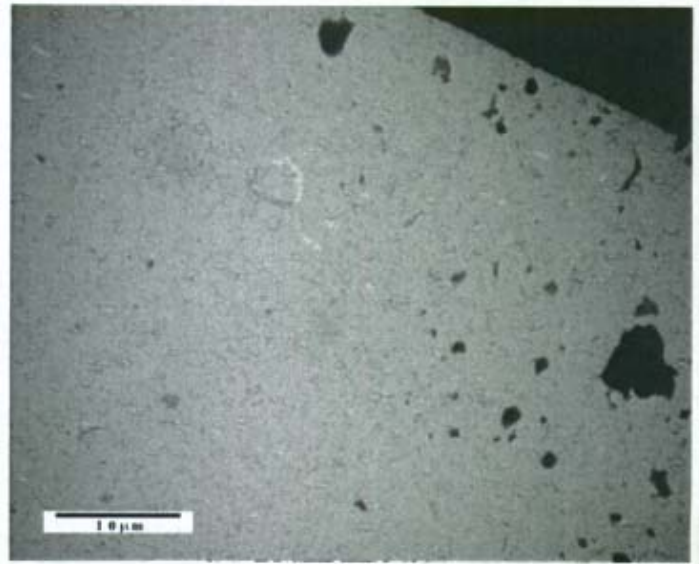
No EDS image acquired - organic

Length and width not recorded

Mineral category: Unknown

SAED not measured

RJLG # 3044322 Field 32, Fiber 1
CPS-S101-100804-FG2 -- Soil

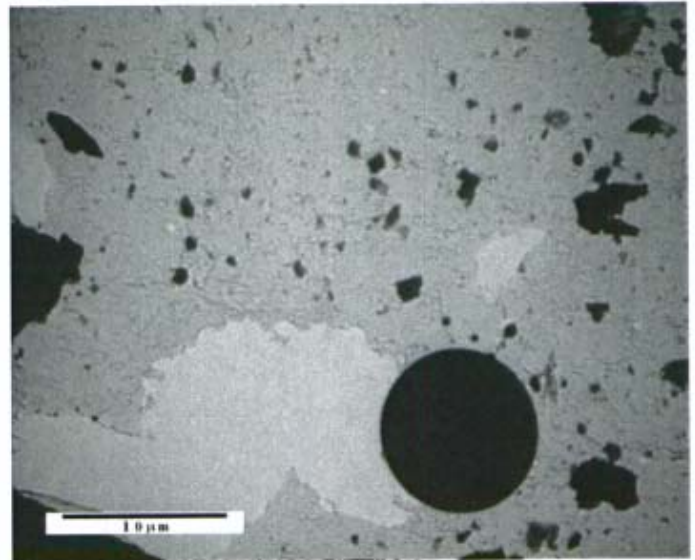
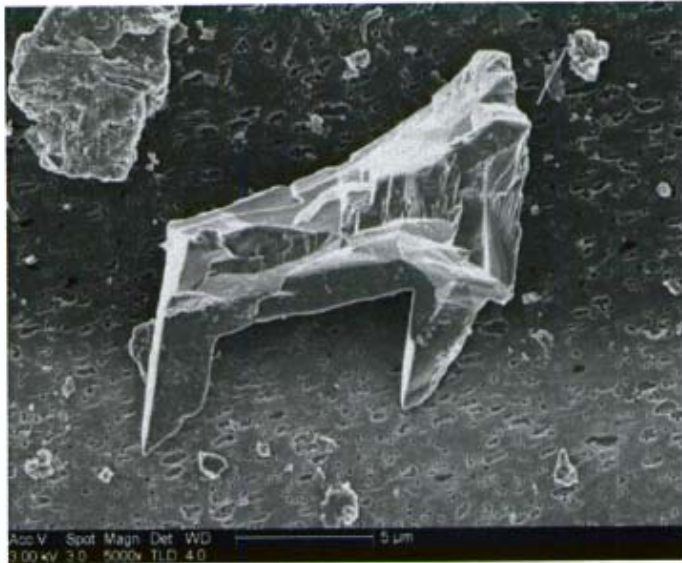


No EDS image acquired

No SAED pattern acquired

TEM could not relocate
Mineral category: Unknown

RJLG # 3044322 Field 33, Fiber 1
CPS-S101-100804-FG2 -- Soil



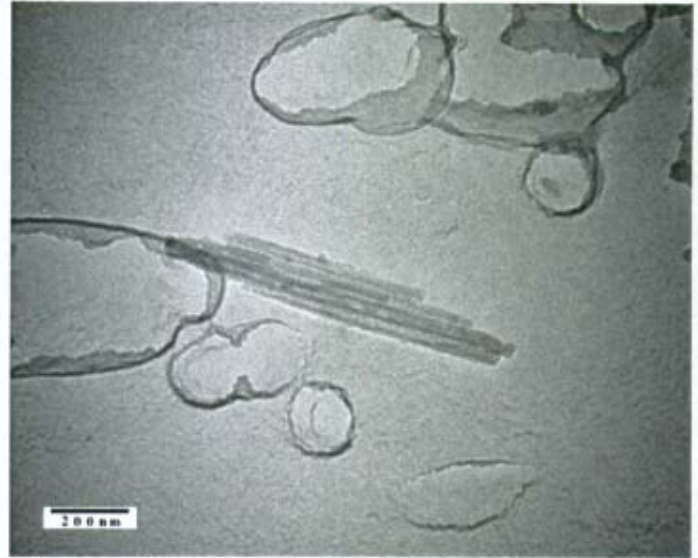
No EDS image acquired

Length and width not recorded - structure damaged

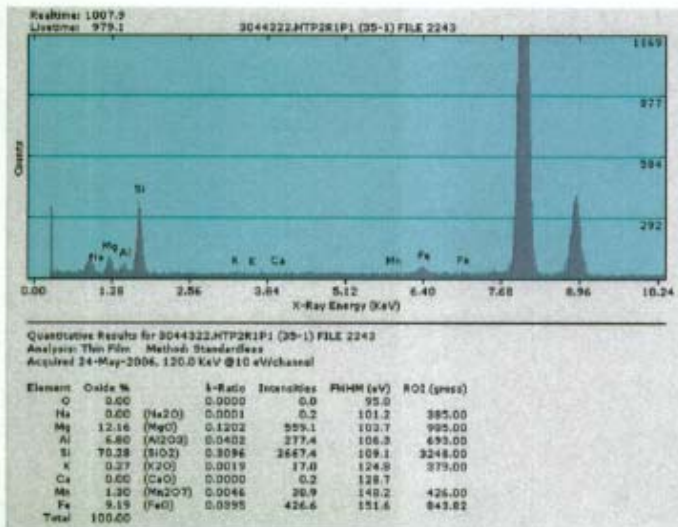
Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044322 Field 34, Fiber 1
CPS-S101-100804-FG2 -- Soil



SEM did not relocate

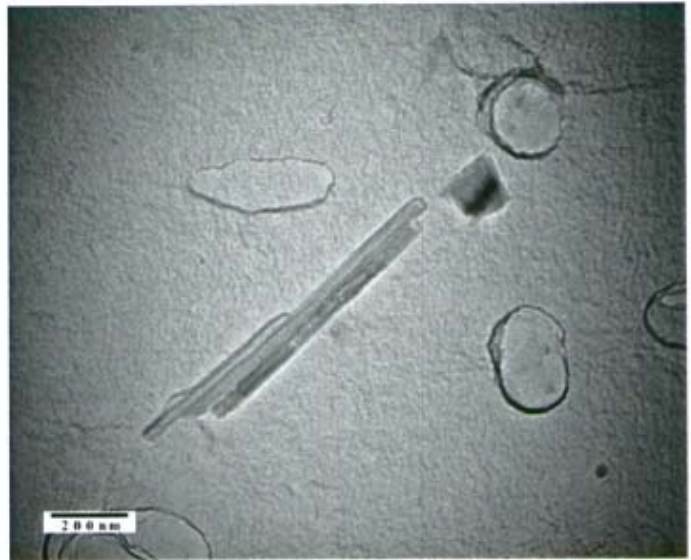


L = .9 W = .1 AR = 9:1

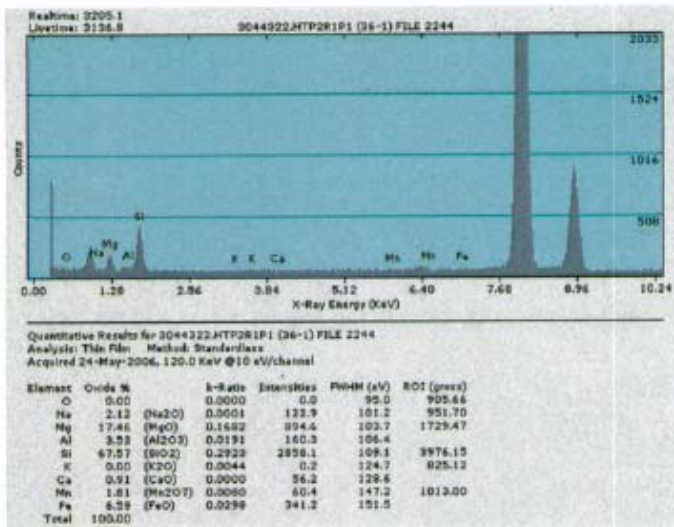
Mineral category: Unknown

SAED not measured

RJLG # 3044322 Field 35, Fiber 1
 CPS-S101-100804-FG2 -- Soil



SEM did not relocate

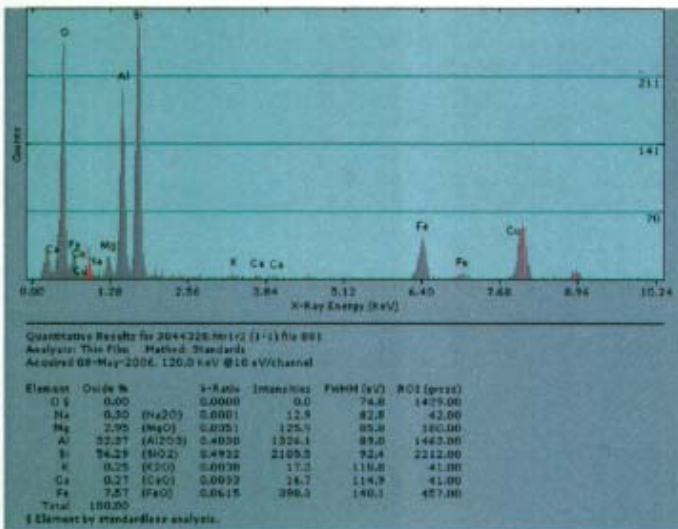


L = .6 W = .04 AR = 15:1

Mineral category: Unknown

SAED not measured

RJLG # 3044322 Field 36, Fiber 1
 CPS-S101-100804-FG2 -- Soil

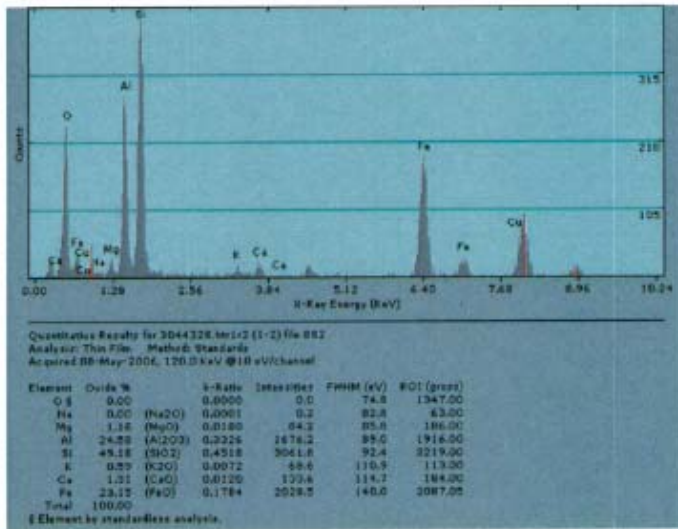
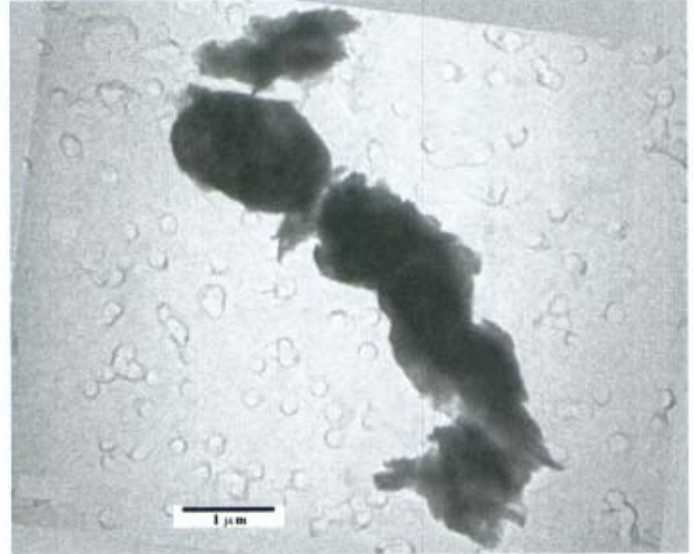
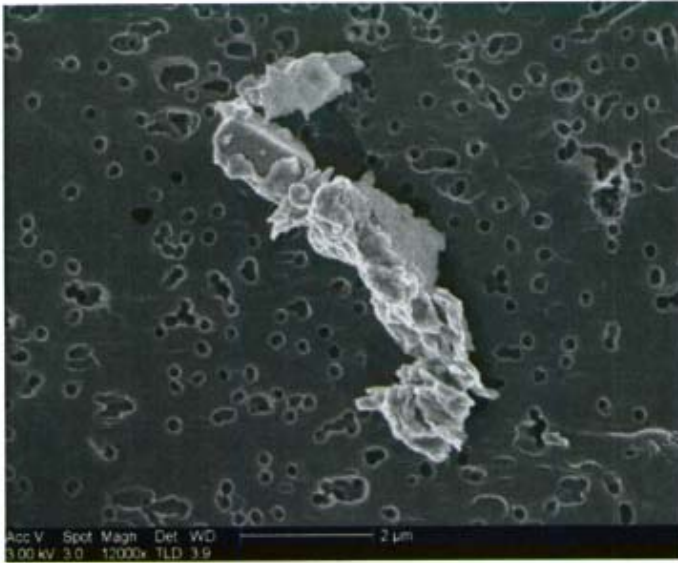


L = 3.5 W = 1.1 AR = 3:1

Mineral category: Sheet Silicate

Zone	101	D1	4.71
Phi	58.9	D2	4.58

RJLG # 3044328 Field 1, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator

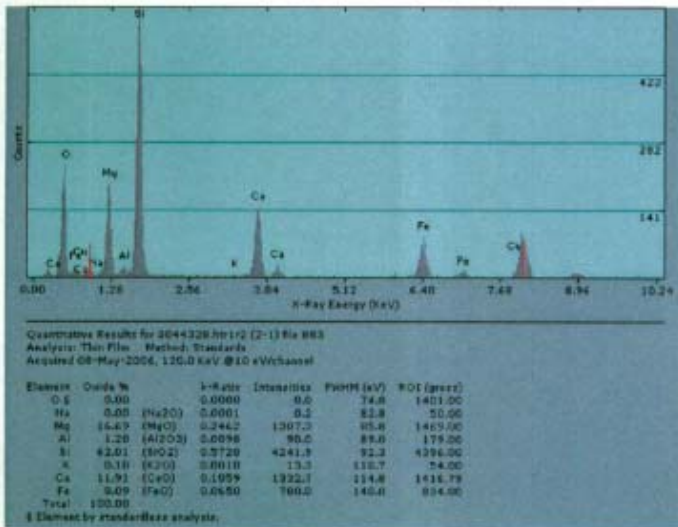
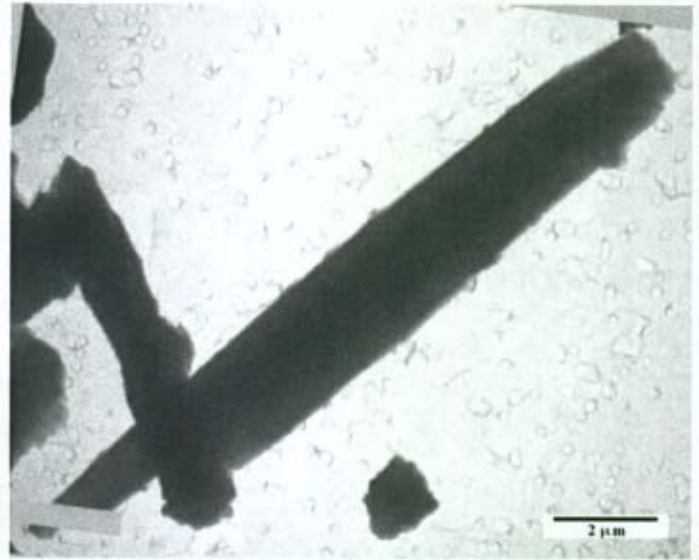


L = 7.3 W = 1.1 AR = 7:1

Mineral category: Clay/Mica

No SAED pattern acquired

RJLG # 3044328 Field 1, Fiber 2
NFB-SS04-100804-FG2 -- Elutriator



L = 17.25 W = 2.5 AR = 7:1

Mineral category: Amphibole

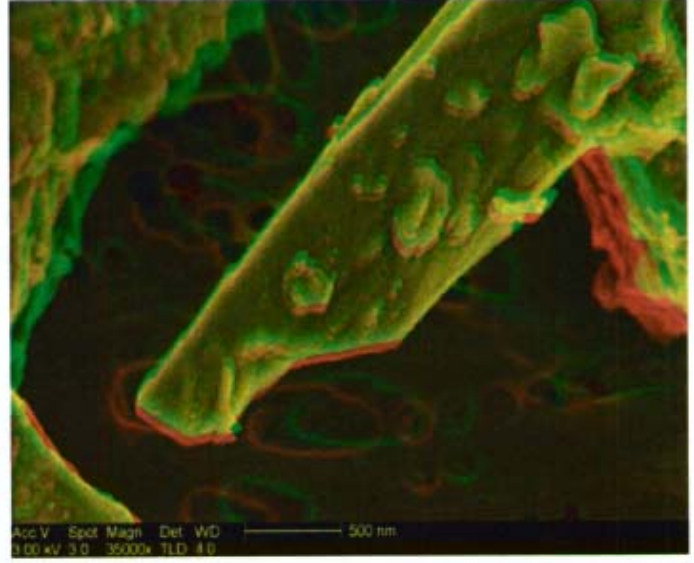
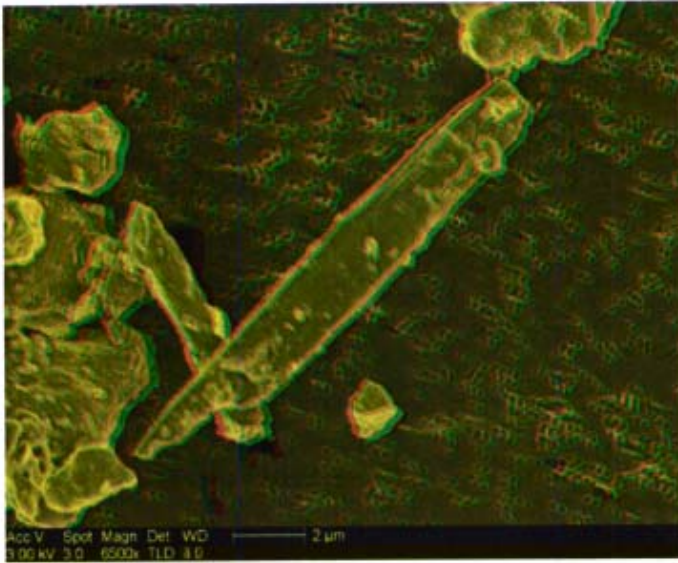
Zone 100

D1 9.21

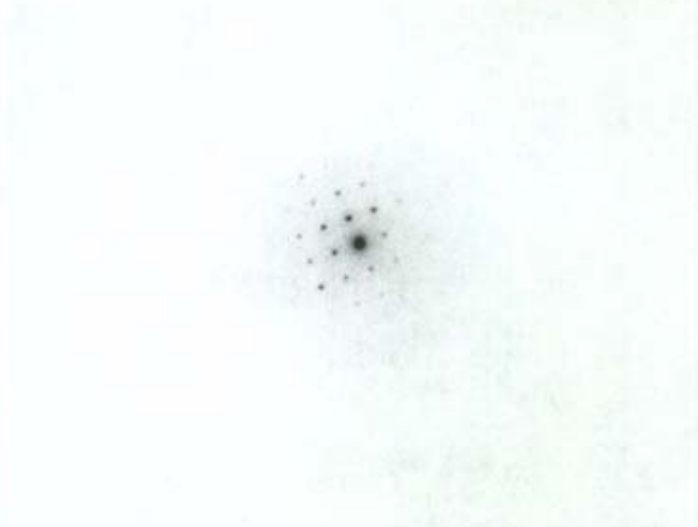
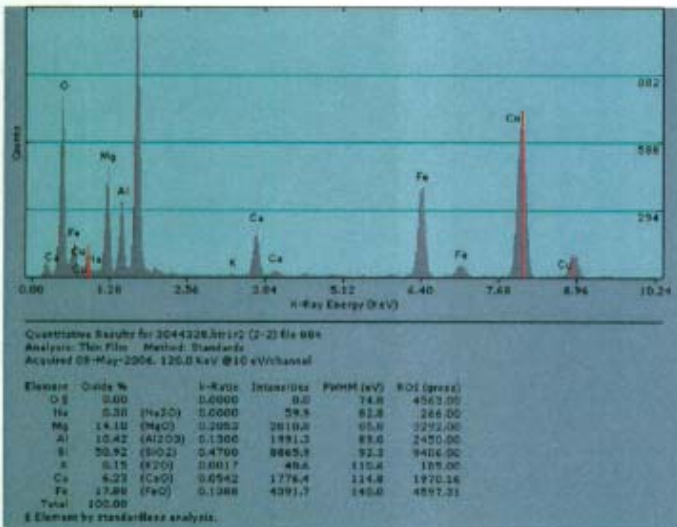
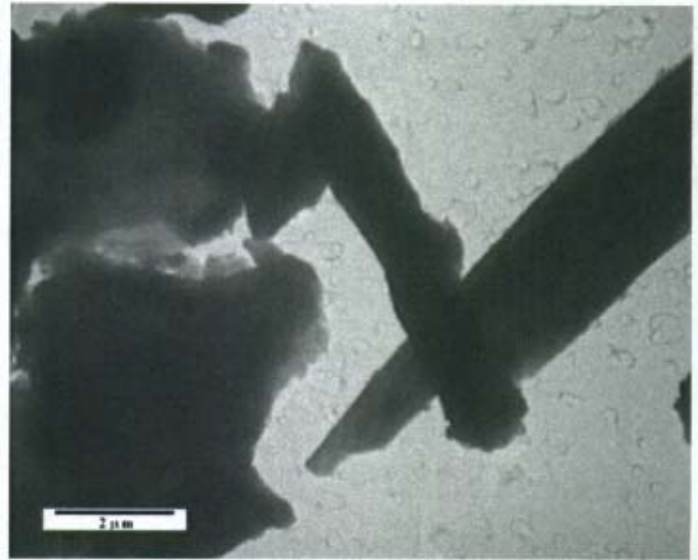
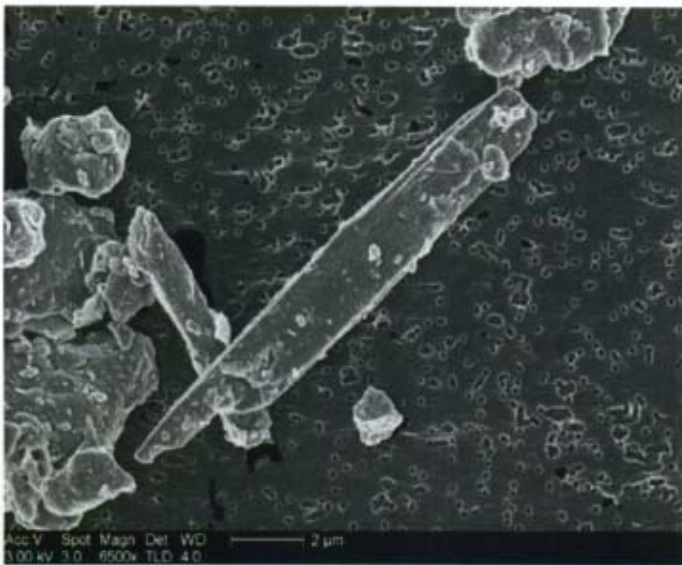
Phi 89.5

D2 5.38

RJLG # 3044328 Field 2, Fiber 1
NFB-SS04-100804-FG2 -- Elutriator



RJLG # 3044328 Field 2, Fiber 1
NFB-SS04-100804-FG2 -- Elutriator



L = 8.5 W = 1 AR = 9:1

Mineral category: Amphibole

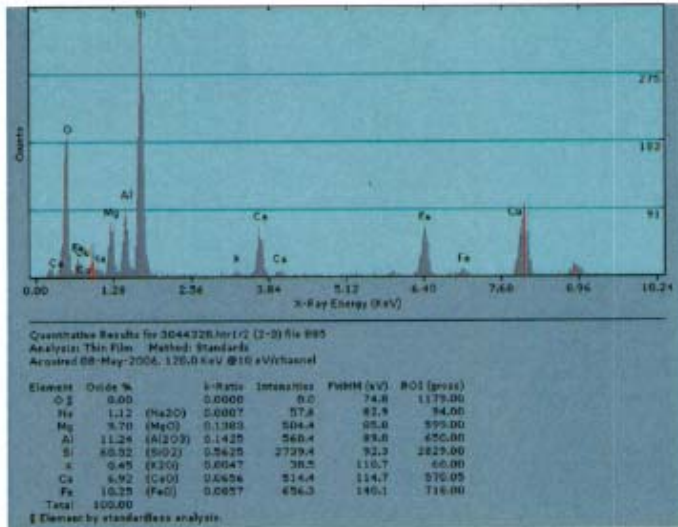
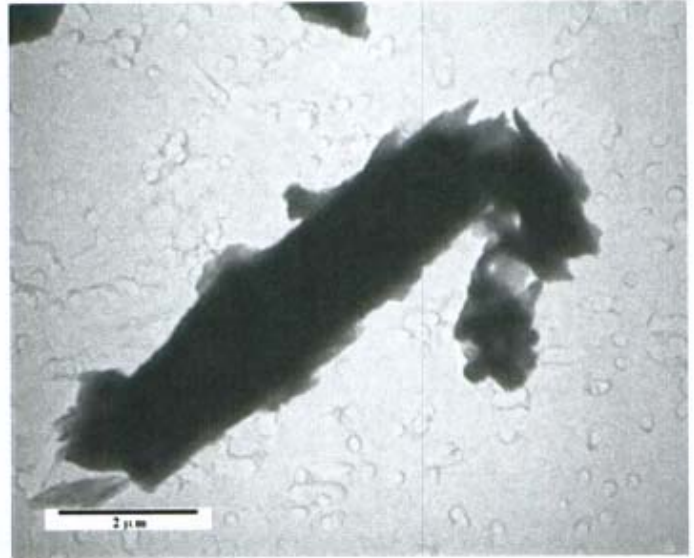
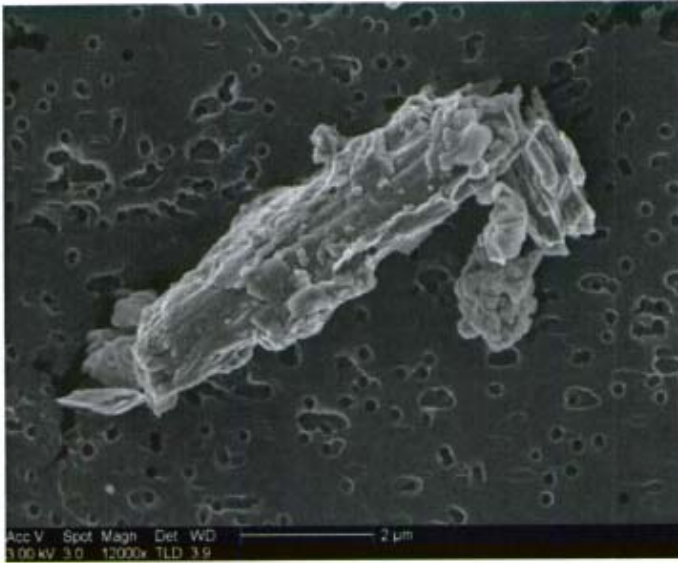
Zone 314

D1 5.21

Phi 84.9

D2 5.09

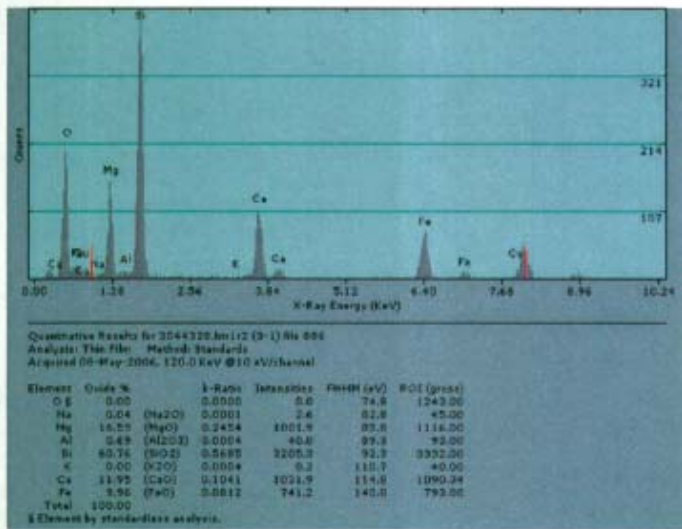
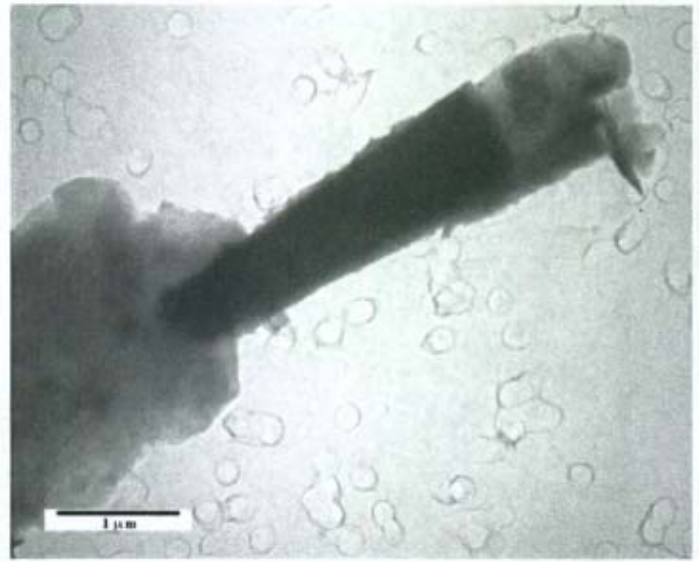
RJLG # 3044328 Field 2, Fiber 2
 NFB-SS04-100804-FG2 -- Elutriator



L = 9.5 W = 2 AR = 5:1
 Mineral category: Pyroxene

Zone 332 D1 6.62
 Phi 87.3 D2 1.8

RJLG # 3044328 Field 2, Fiber 3
 NFB-SS04-100804-FG2 -- Elutriator

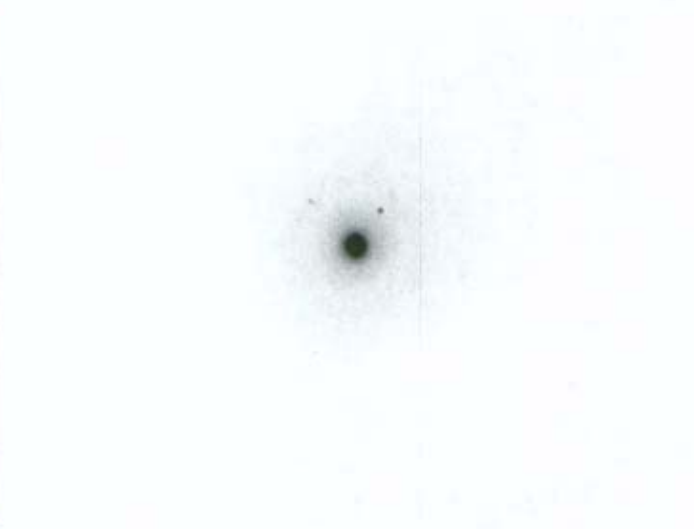
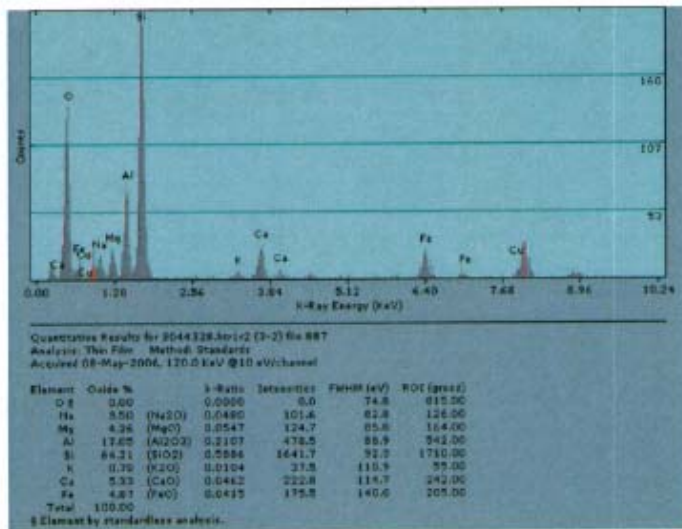
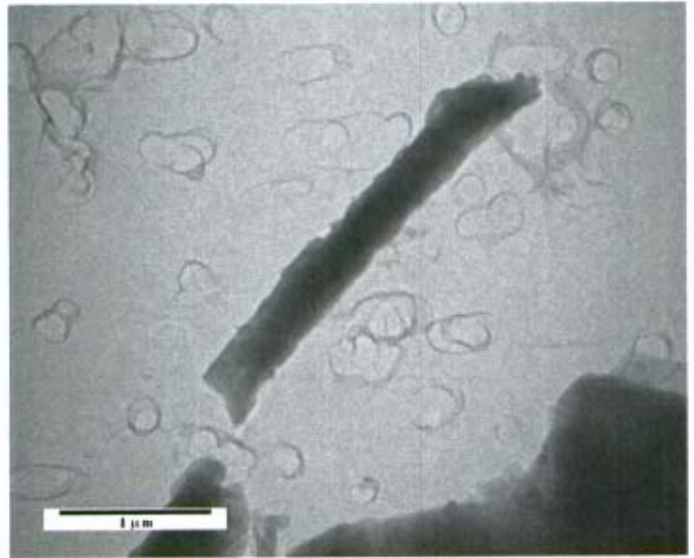
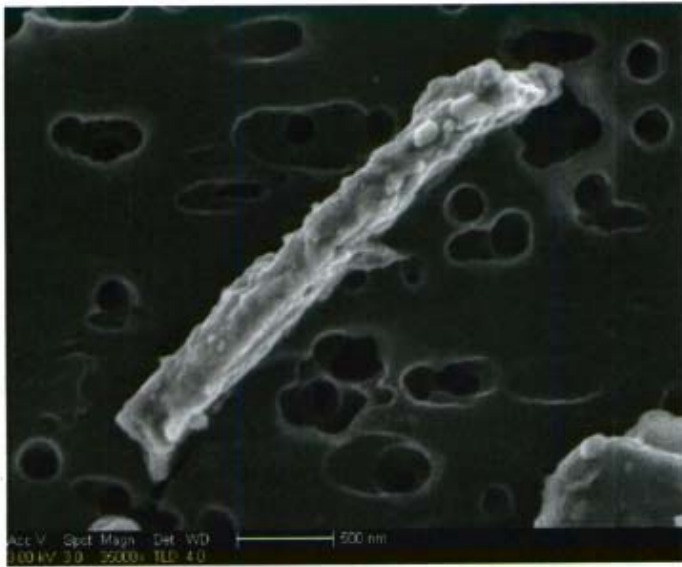


L = 5.2 W = .85 AR = 6:1
 Mineral category: Amphibole

Zone 301 D1 8.73
 Phi 83.3 D2 2

RJLG # 3044328 Field 3, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator

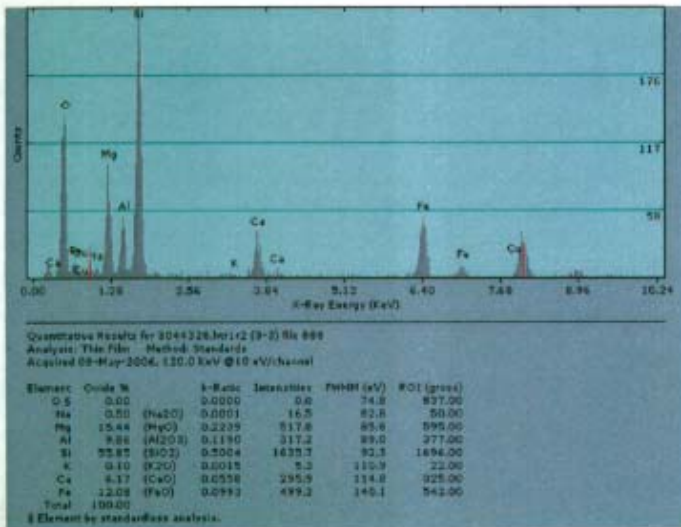
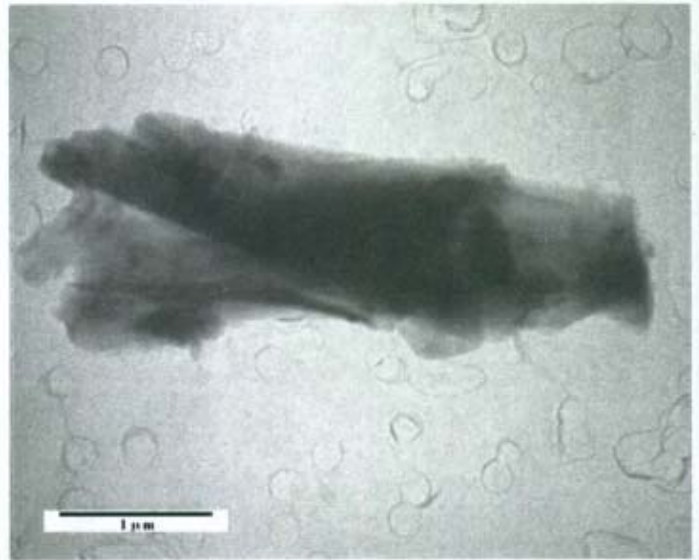
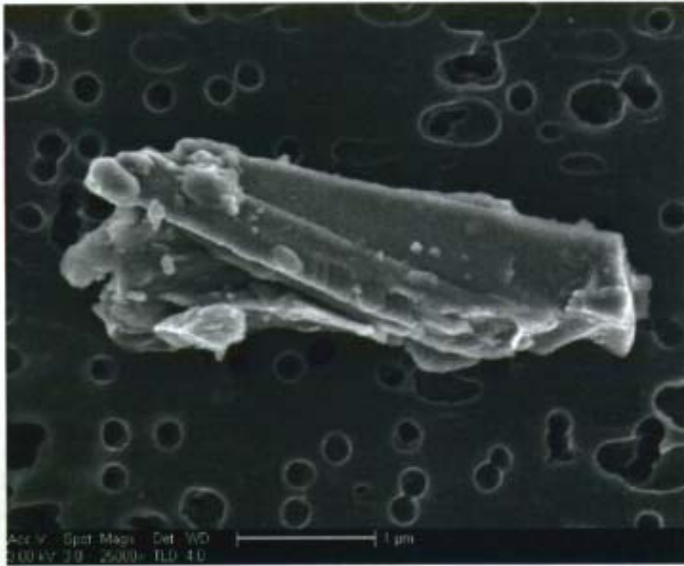
TEM and SEM Data



L = 3.5 W = .45 AR = 8:1
 Mineral category: Pyroxene

Zone 11-1 D1 6.39
 Phi 83.8 D2 2.27

RJLG # 3044328 Field 3, Fiber 2
 NFB-SS04-100804-FG2 -- Elutriator



L = 5 W = 1.25 AR = 4:1

Mineral category: Amphibole

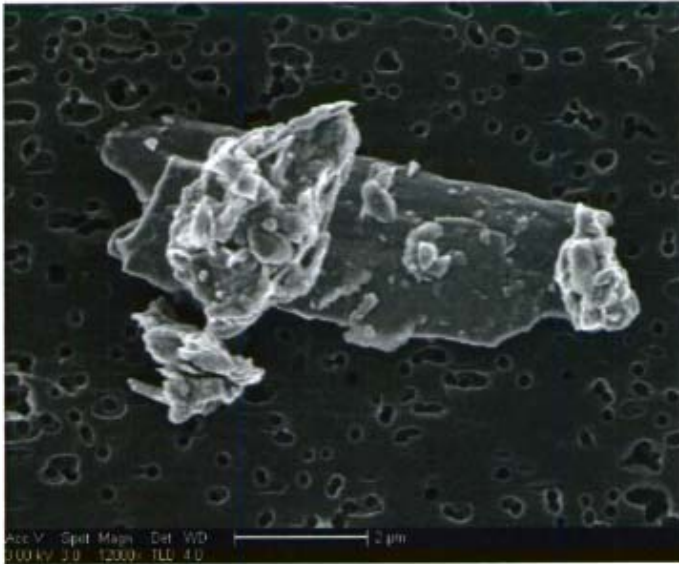
Zone 410

D1 5.23

Phi 86.1

D2 1.99

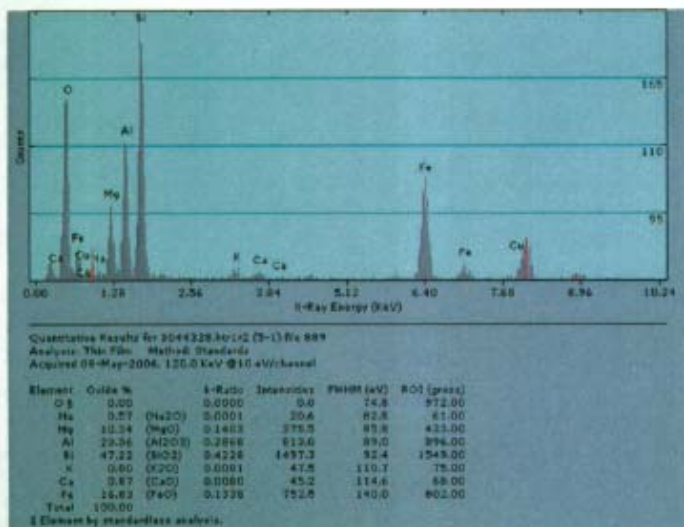
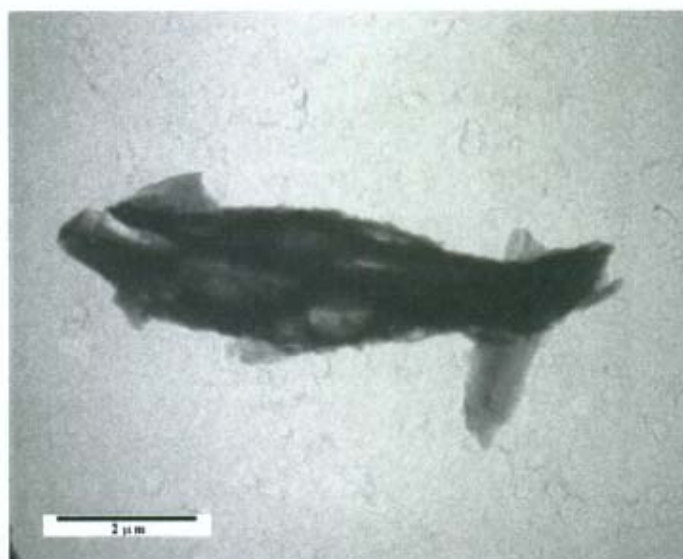
RJLG # 3044328 Field 3, Fiber 3
 NFB-SS04-100804-FG2 -- Elutriator



TEM could not relocate

Mineral category: Unknown

RJLG # 3044328 Field 4, Fiber 1
NFB-SS04-100804-FG2 -- Elutriator

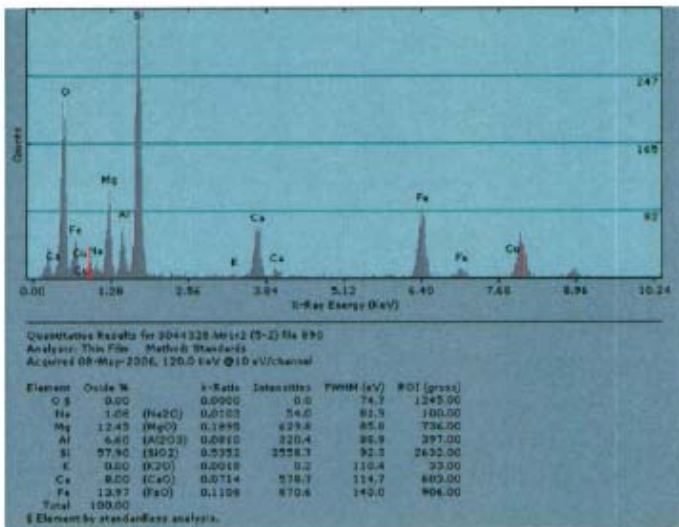
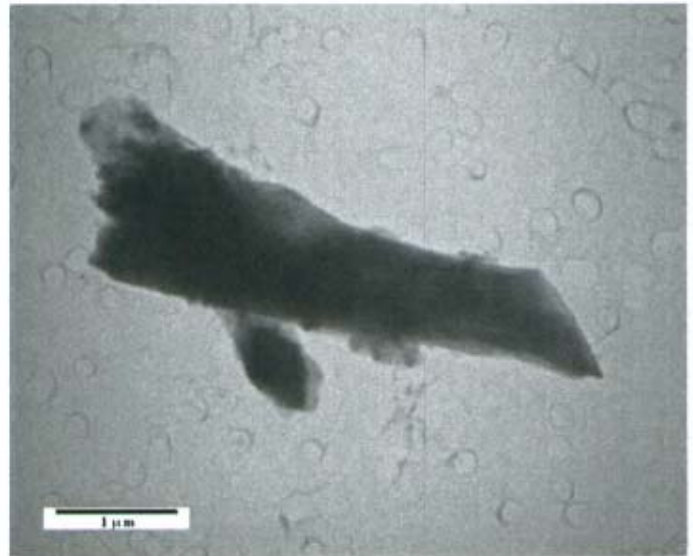


L = 9.75 W = 1.5 AR = 7:1

Mineral category: Amphibole

No SAED pattern acquired

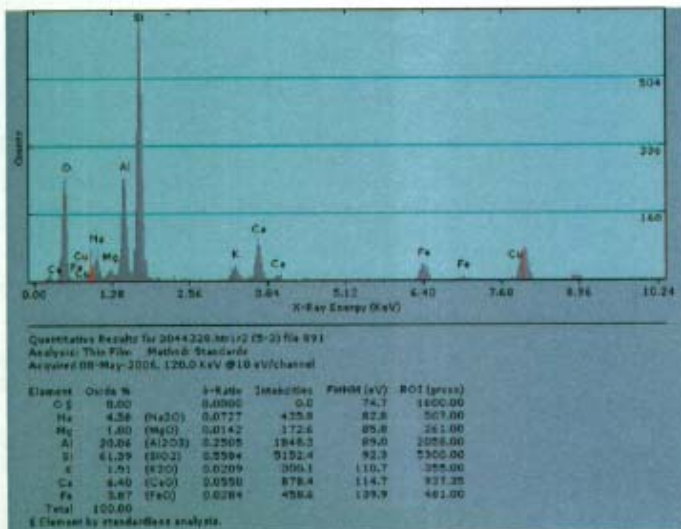
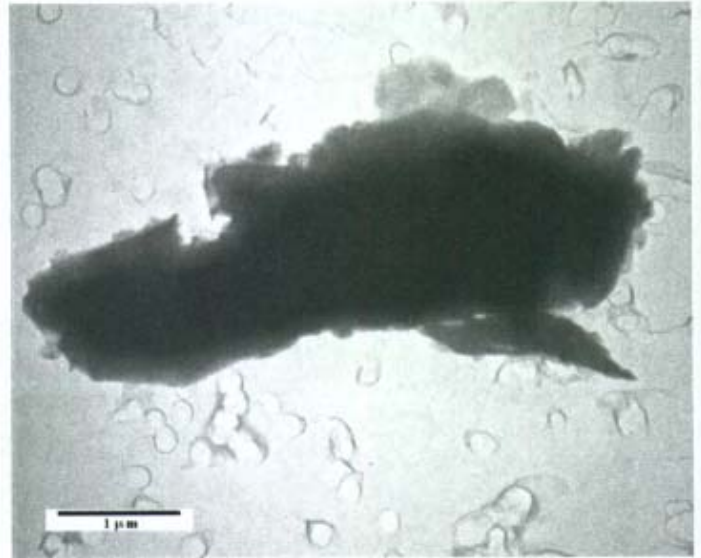
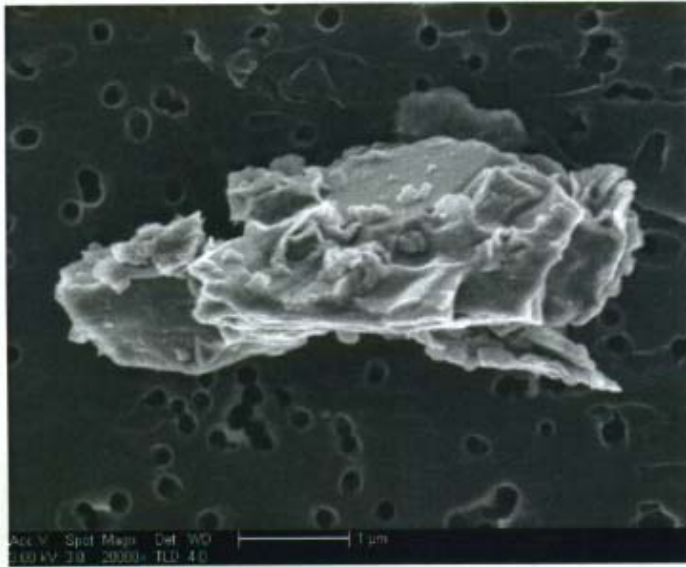
RJLG # 3044328 Field 5, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator



L = 5.5 W = 1.7 AR = 3:1
 Mineral category: Amphibole

Zone 10-1 D1 9.28
 Phi 78.4 D2 4.09

RJLG # 3044328 Field 5, Fiber 2
 NFB-SS04-100804-FG2 -- Elutriator



L = 6.5 W = 1.75 AR = 4:1

Mineral category: Pyroxene

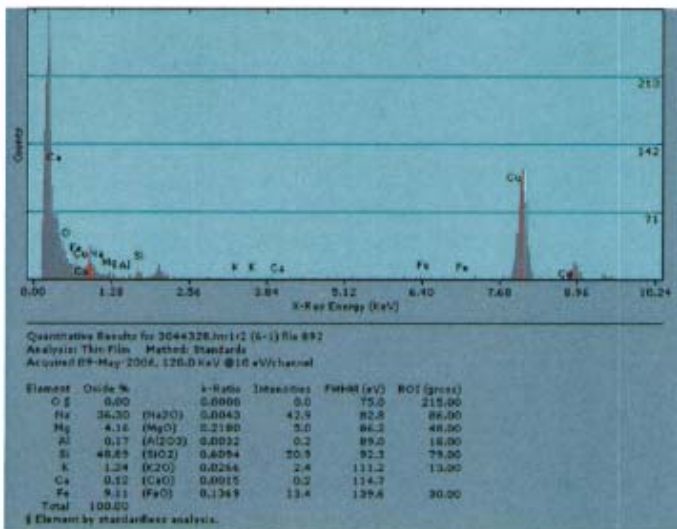
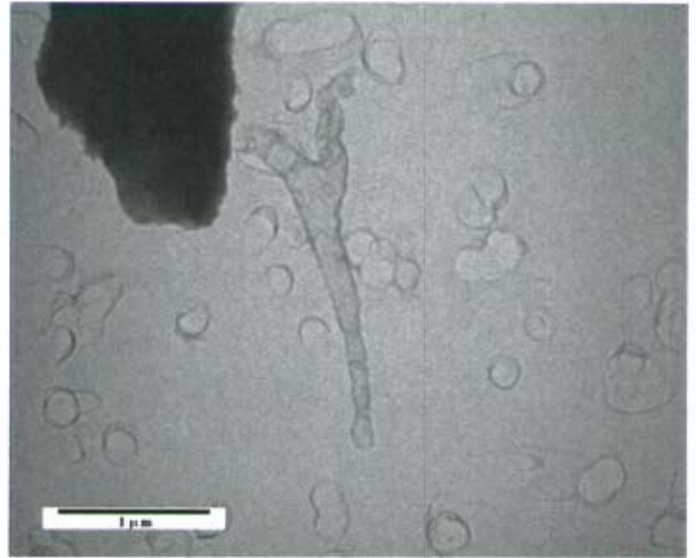
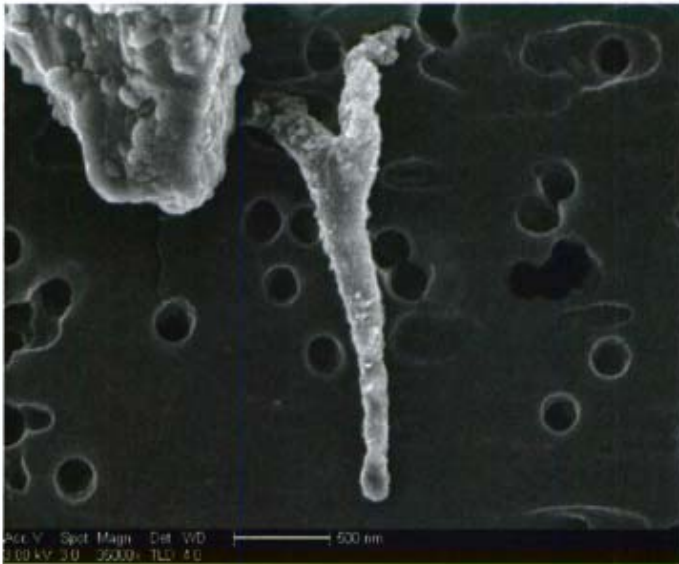
Zone 11-1

D1 6.52

Phi 83.7

D2 2.26

RJLG # 3044328 Field 5, Fiber 3
NFB-SS04-100804-FG2 -- Elutriator

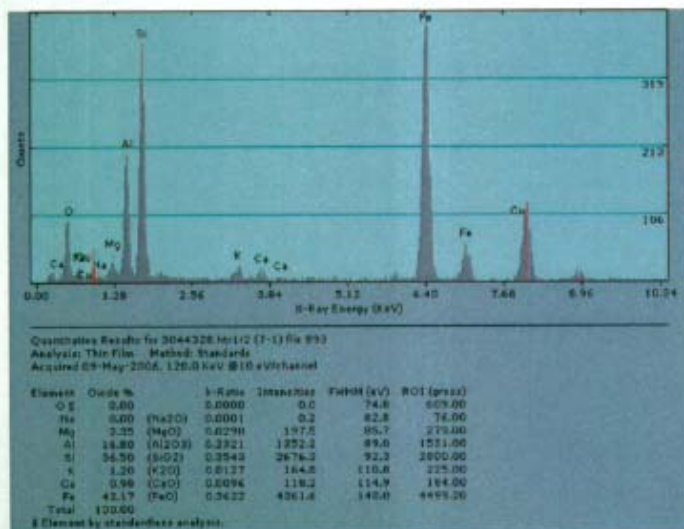
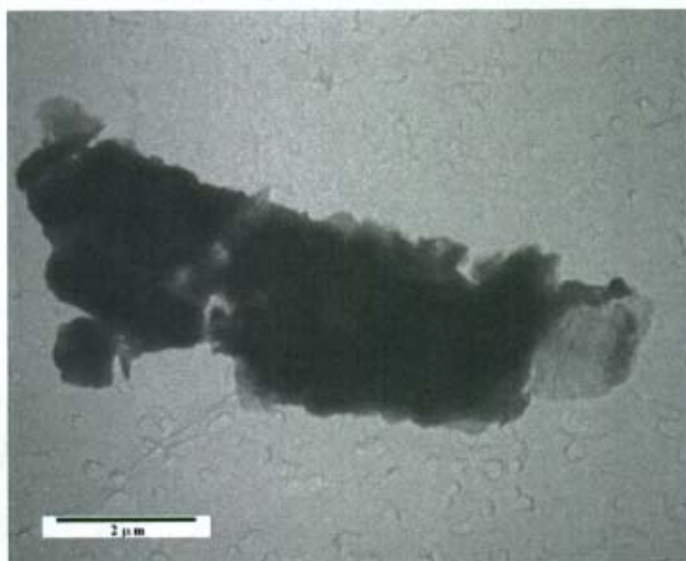
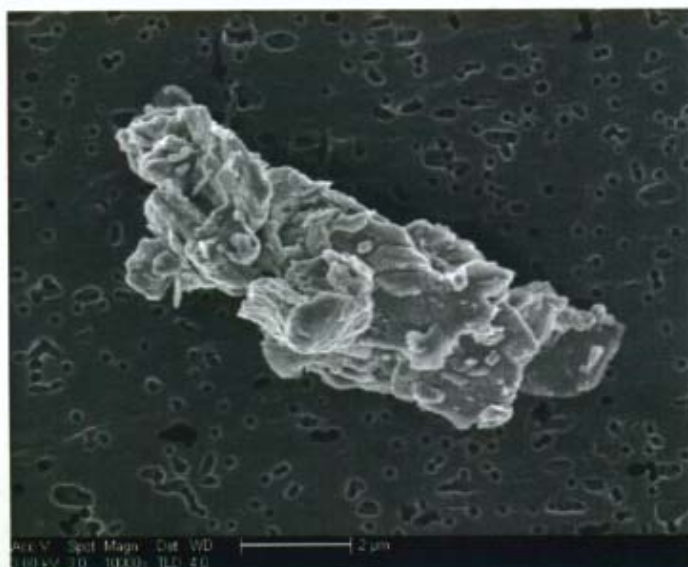


L = 2.75 W = .35 AR = 8:1

Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044328 Field 6, Fiber 1
NFB-SS04-100804-FG2 -- Elutriator



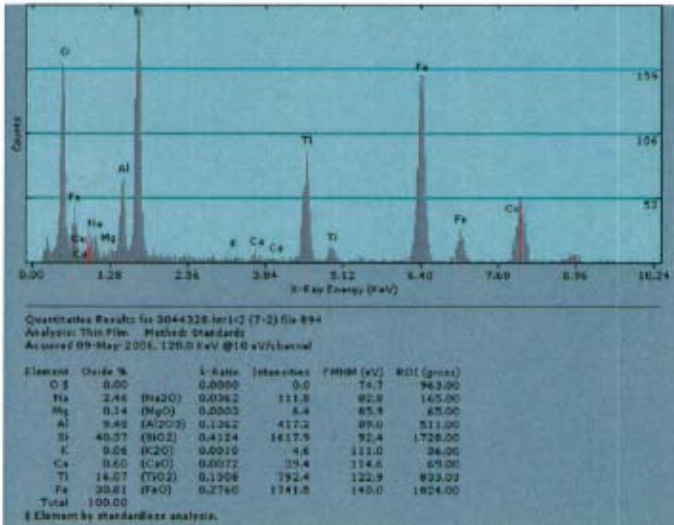
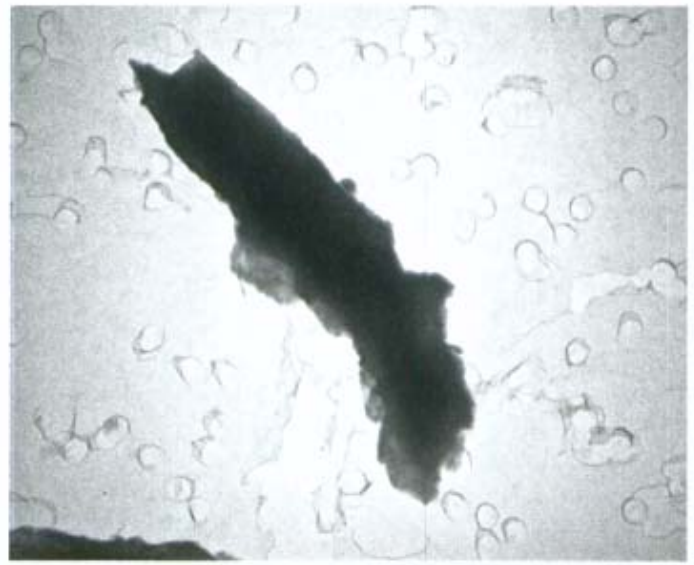
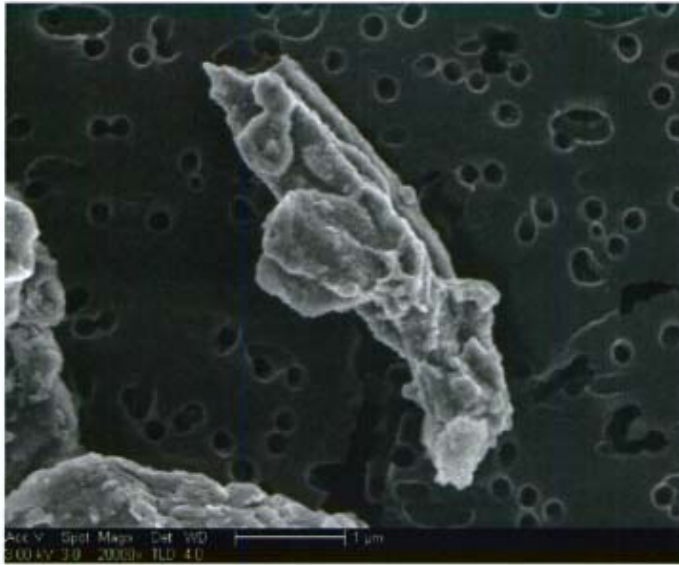
L = 10.75 W = 2.5 AR = 4:1

Mineral category: Amphibole

No SAED pattern acquired

RJLG # 3044328 Field 7, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator

TEM and SEM Data

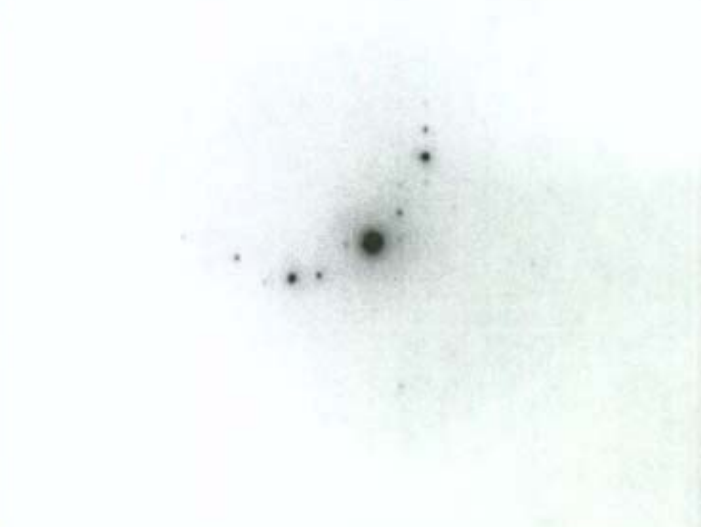
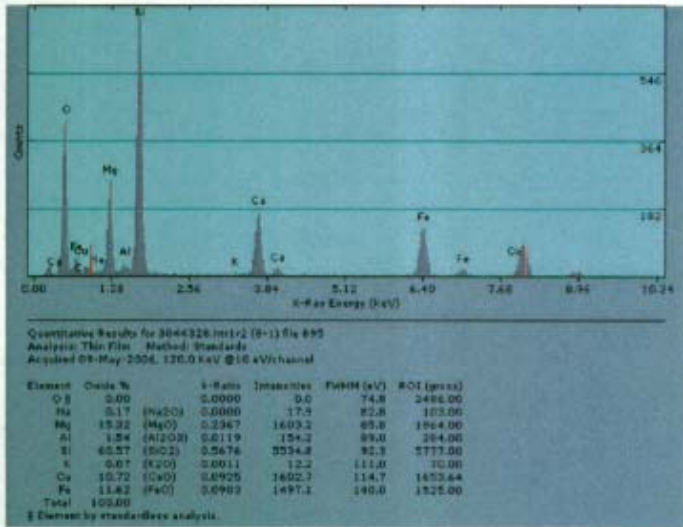
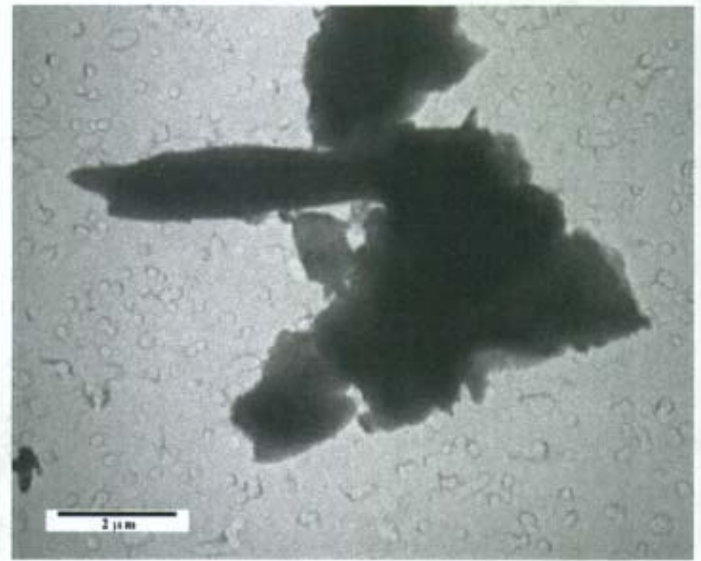


L = 5 W = 1 AR = 5:1

No SAED pattern acquired

Mineral category: Unknown

RJLG # 3044328 Field 7, Fiber 2
 NFB-SS04-100804-FG2 -- Elutriator



L = 7.2 W = 1.2 AR = 6:1
 Mineral category: Amphibole

Zone 314 D1 5.35
 Phi 85 D2 5.03

RJLG # 3044328 Field 8, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator

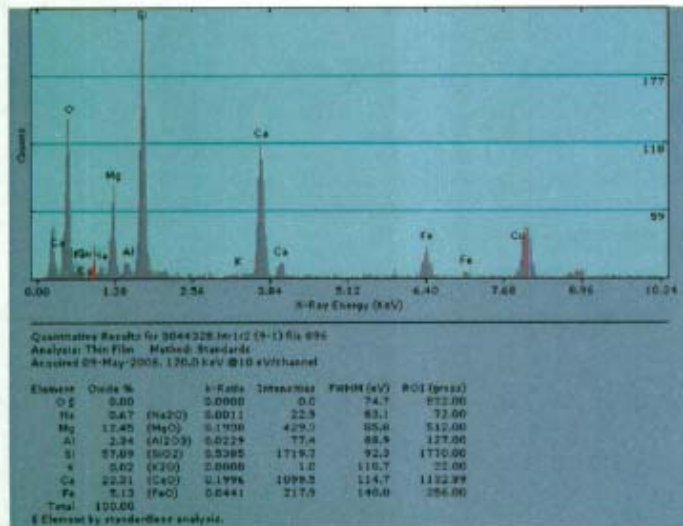
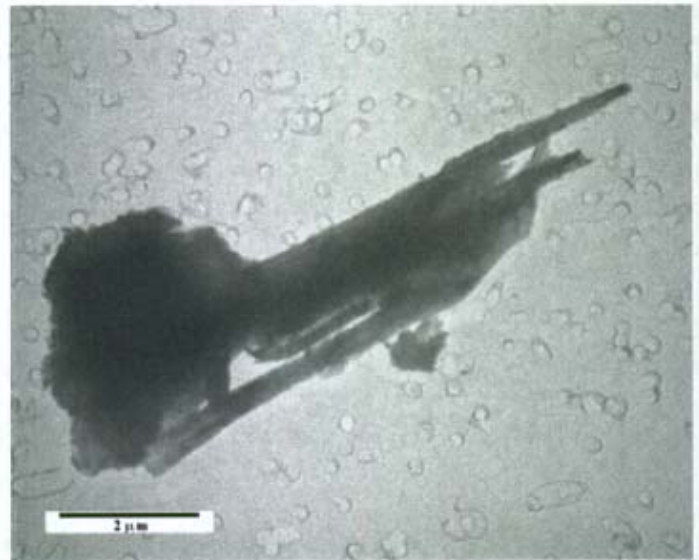


No EDS image acquired

L = 4.5 W = .4 AR = 11:1
Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044328 Field 8, Fiber 2
NFB-SS04-100804-FG2 -- Elutriator

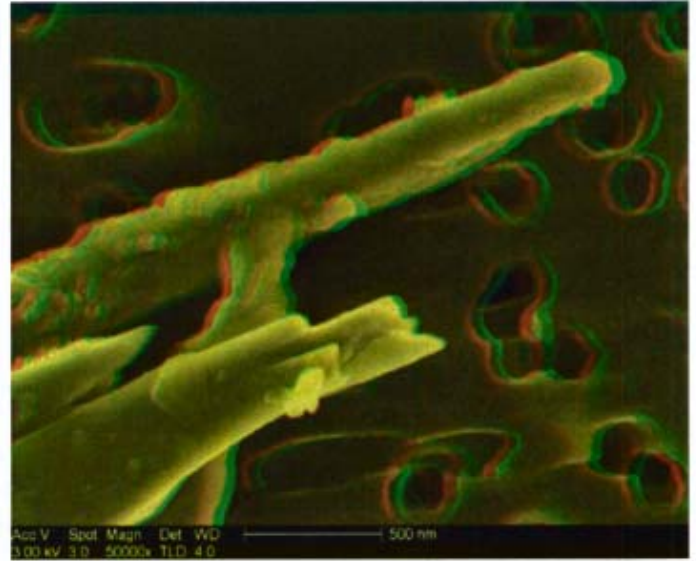
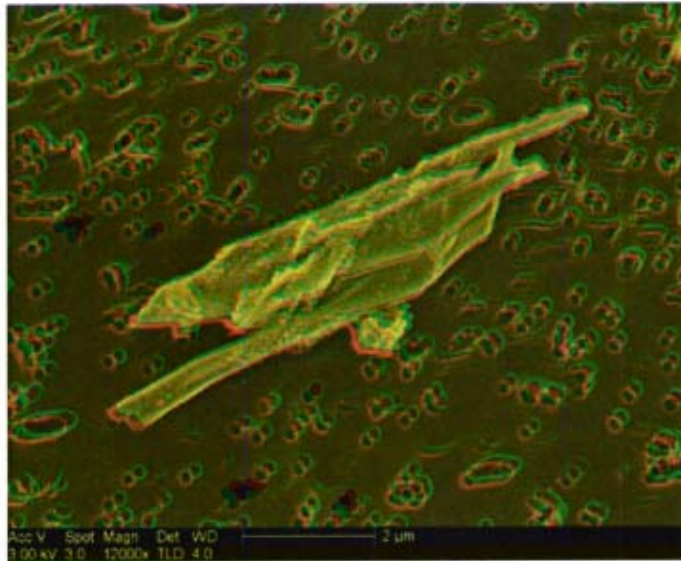


L = 10 W = 1.7 AR = 6:1

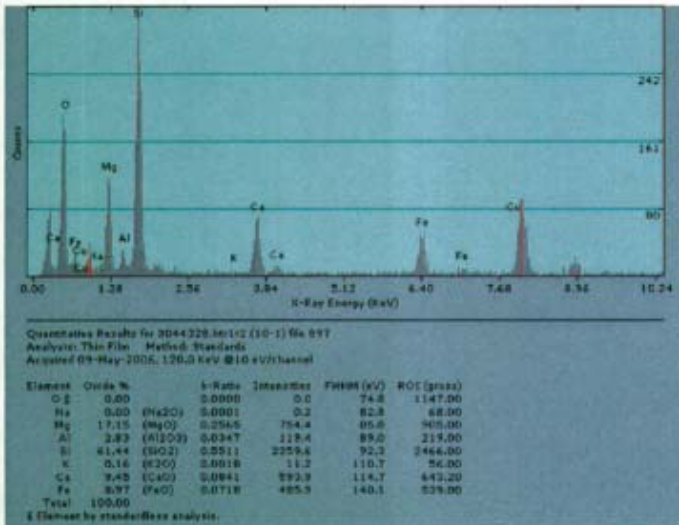
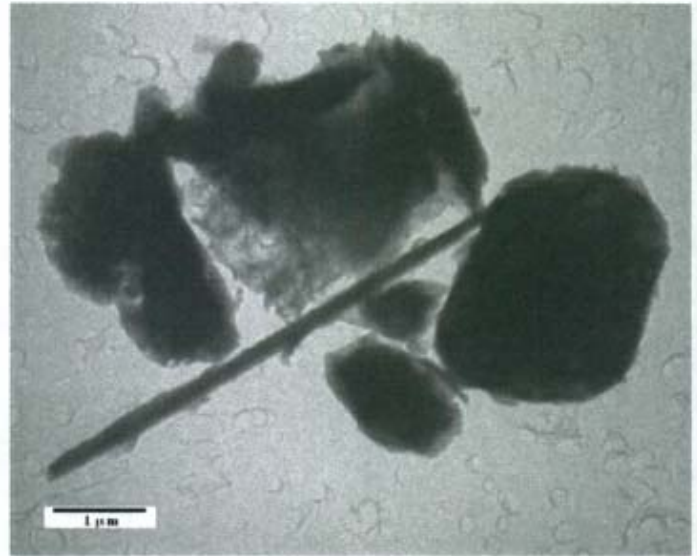
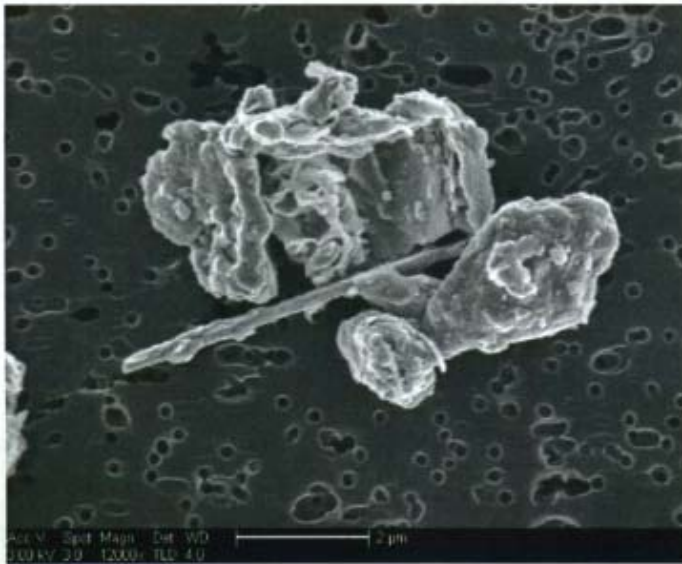
Mineral category: Pyroxene

Zone	111	D1	6.59
Phi	80.6	D2	2.59

RJLG # 3044328 Field 9, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator



RJLG # 3044328 Field 9, Fiber 1
NFB-SS04-100804-FG2 -- Elutriator



L = 5 W = .3 AR = 17:1

Mineral category: Amphibole

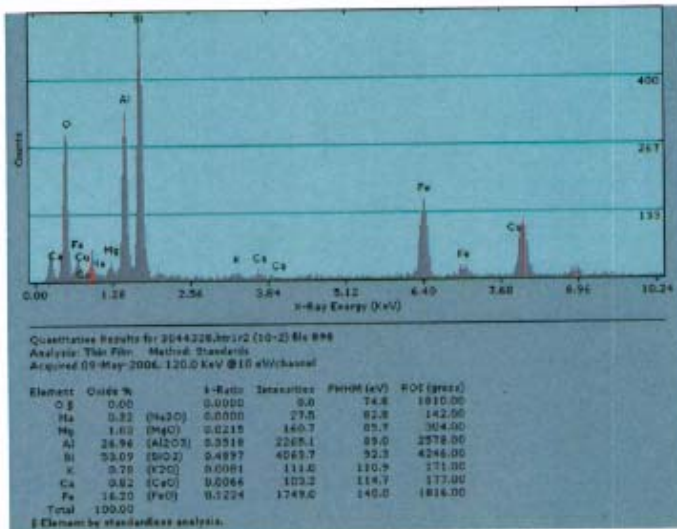
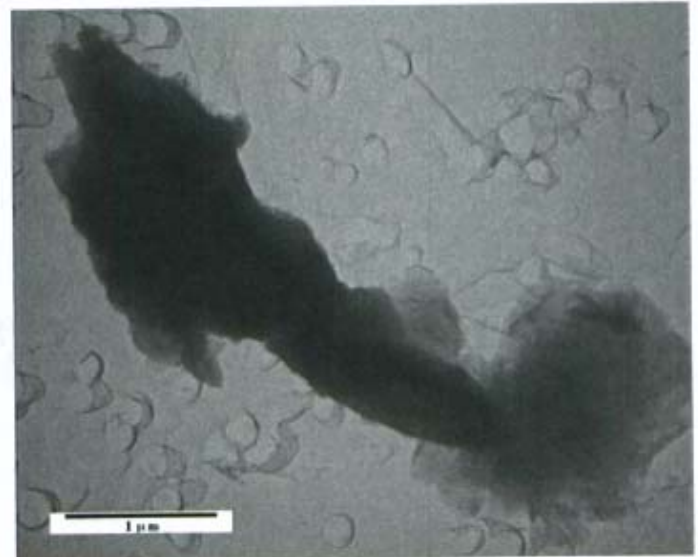
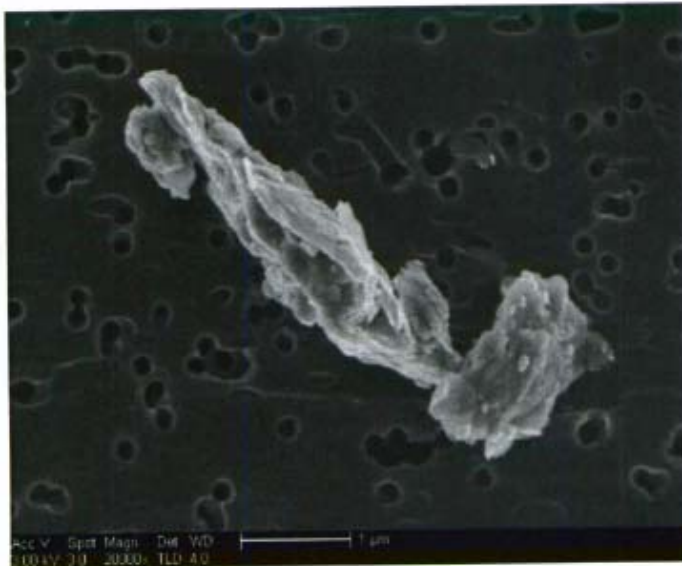
Zone 113

Phi 88

D1 8.6

D2 2.26

RJLG # 3044328 Field 10, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator

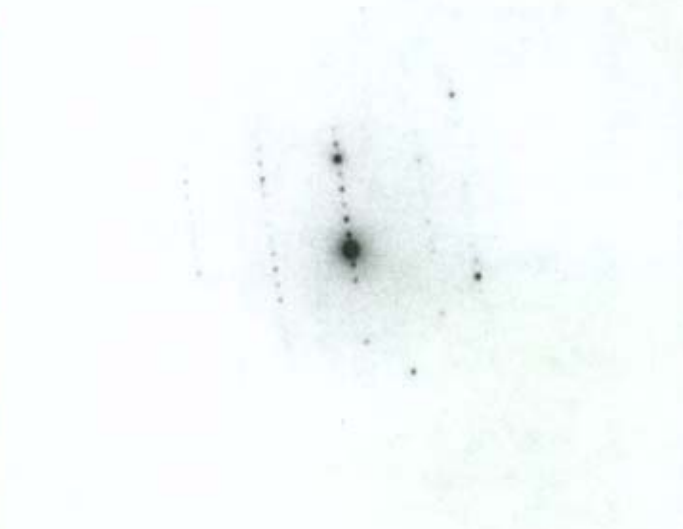
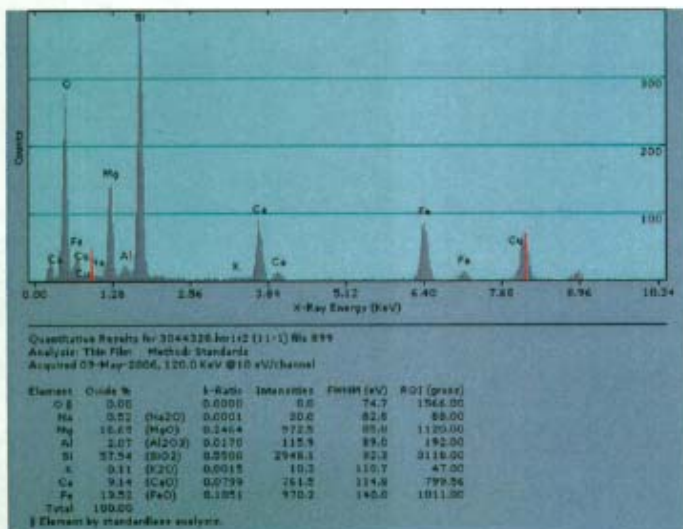
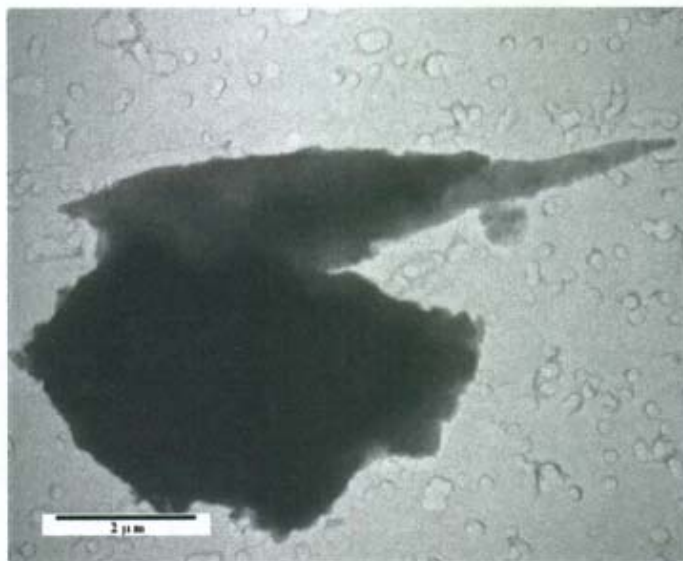


L = 5 W = 1.75 AR = 3:1

Mineral category: Clay/Mica

No SAED pattern acquired

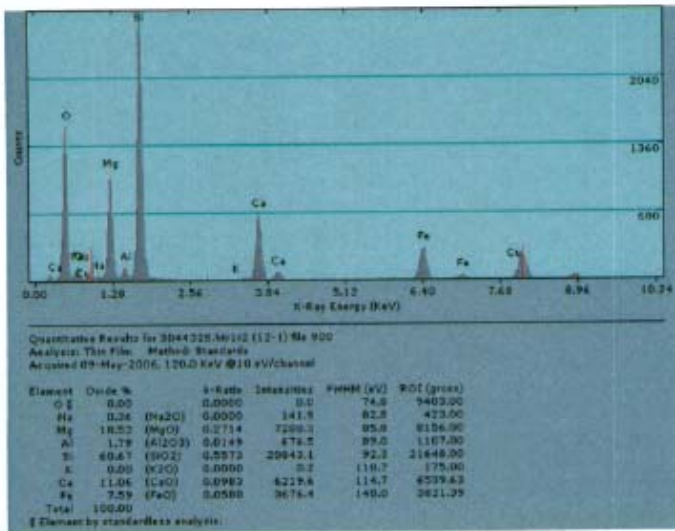
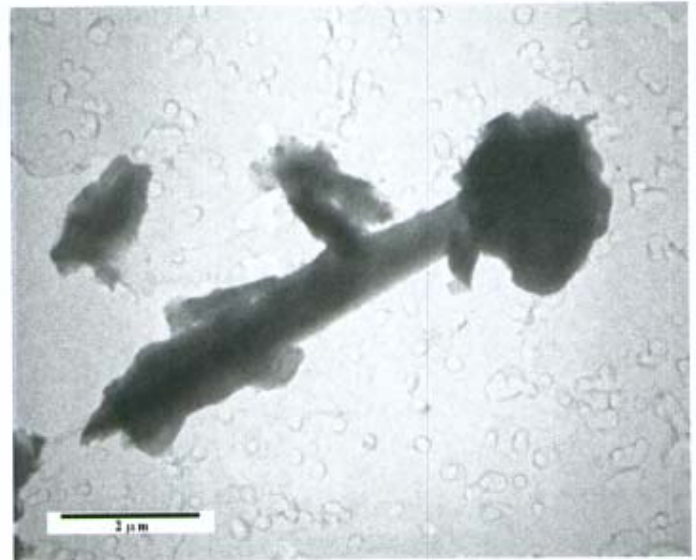
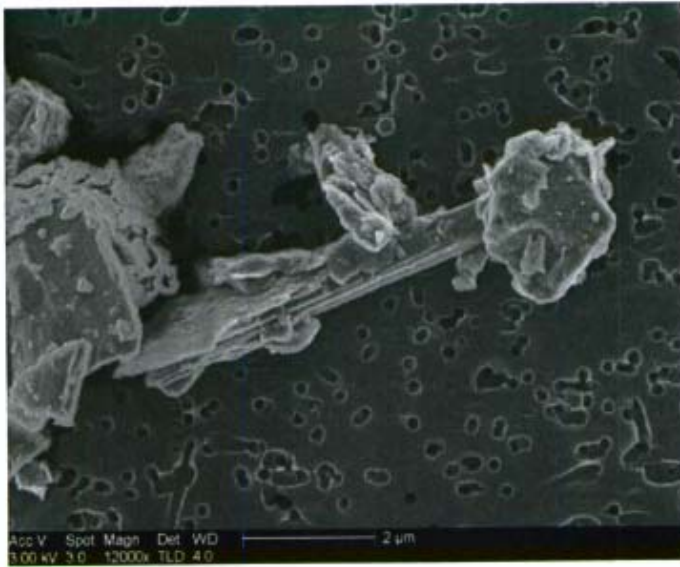
RJLG # 3044328 Field 10, Fiber 2
 NFB-SS04-100804-FG2 -- Elutriator



L = 10 W = 1.25 AR = 8:1
 Mineral category: Amphibole

Zone	301	D1	9.13
Phi	84.4	D2	1.78

RJLG # 3044328 Field 11, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator

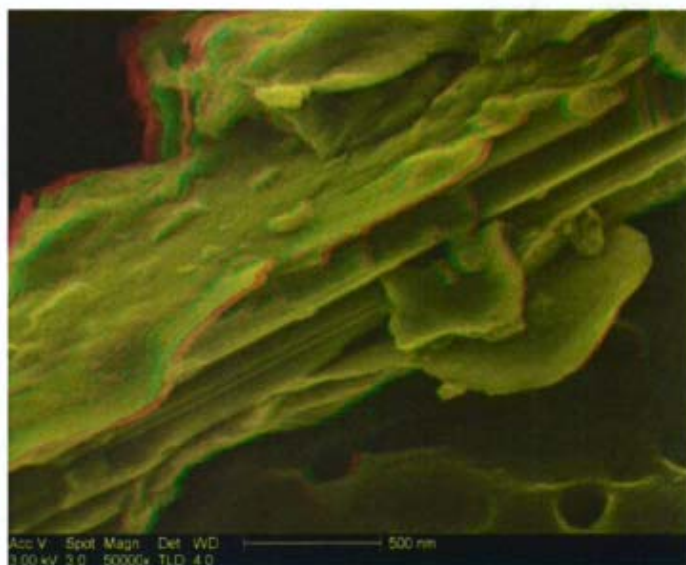
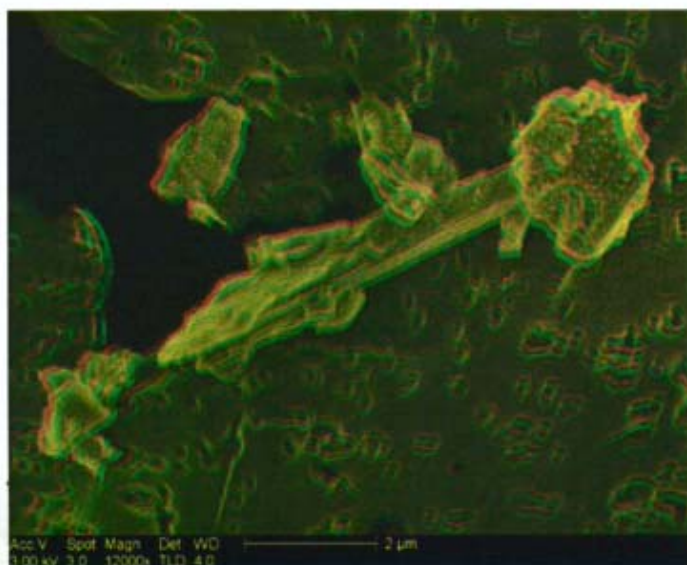


L = 7.5 W = 1 AR = 8:1

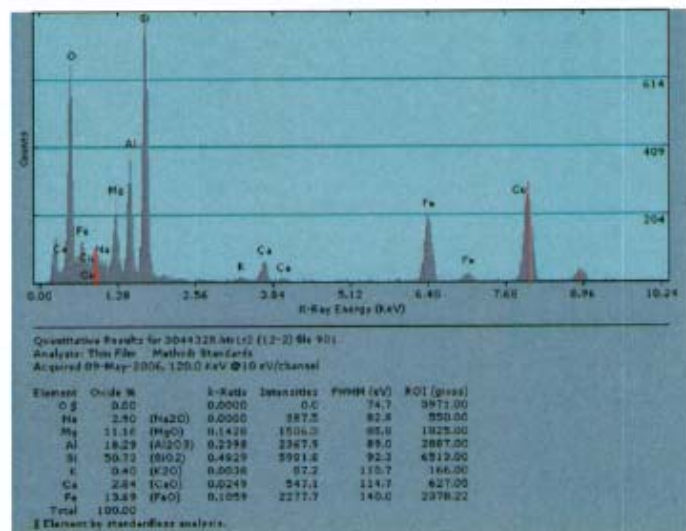
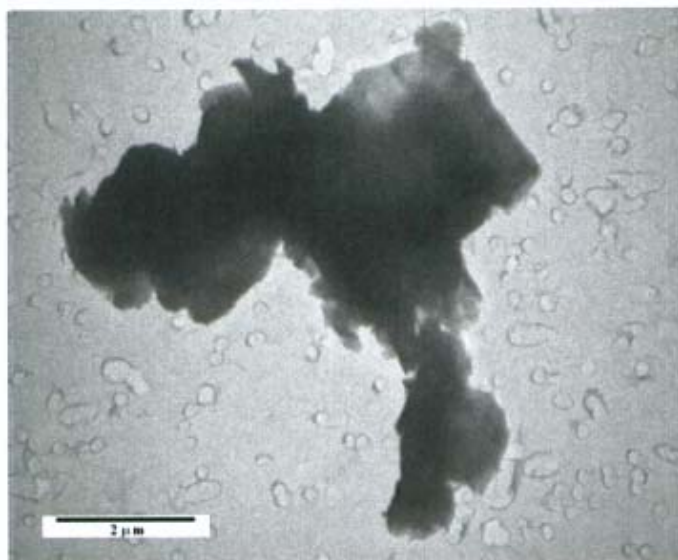
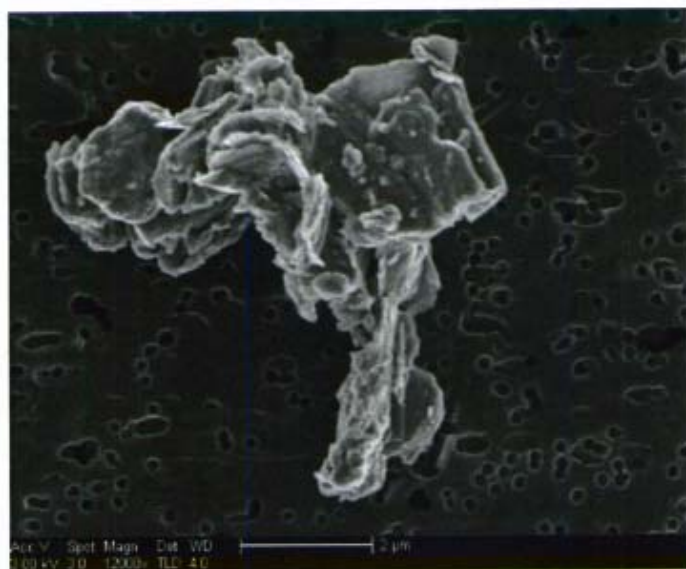
Mineral category: Amphibole

Zone	114	D1	8.76
Phi	85.5	D2	4.04

RJLG # 3044328 Field 12, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator



RJLG # 3044328 Field 12, Fiber 1
NFB-SS04-100804-FG2 -- Elutriator

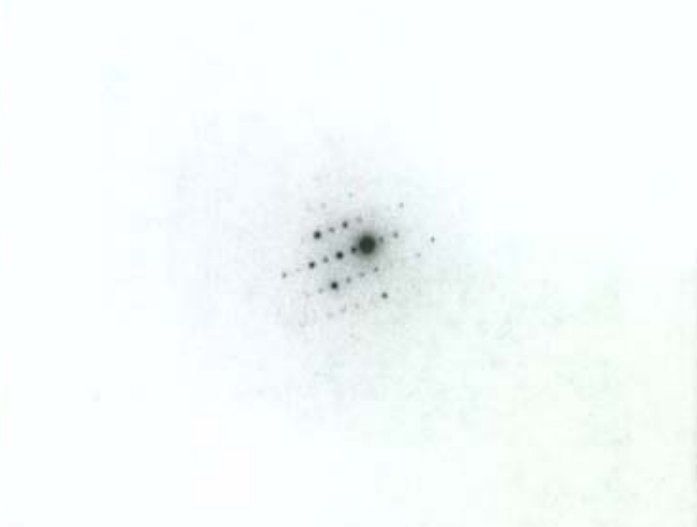
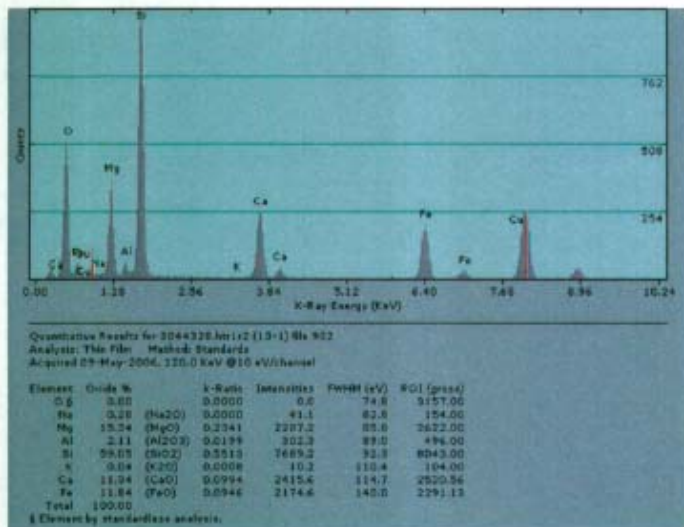
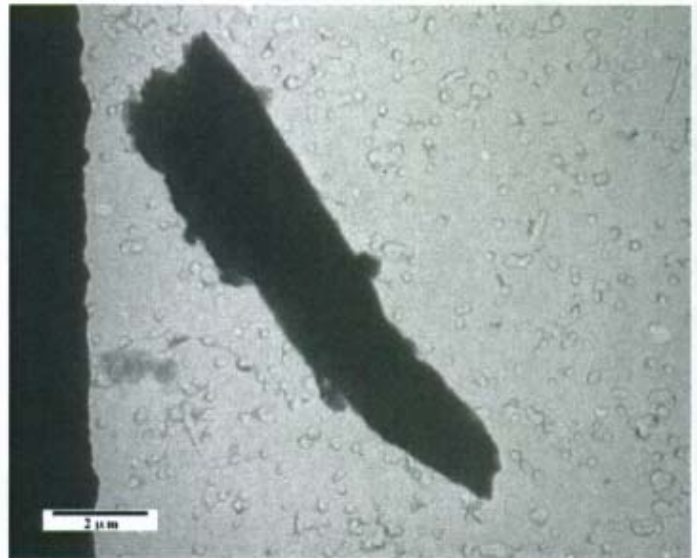


L = 3.2 W = 1 AR = 3:1

Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044328 Field 12, Fiber 2
 NFB-SS04-100804-FG2 -- Elutriator

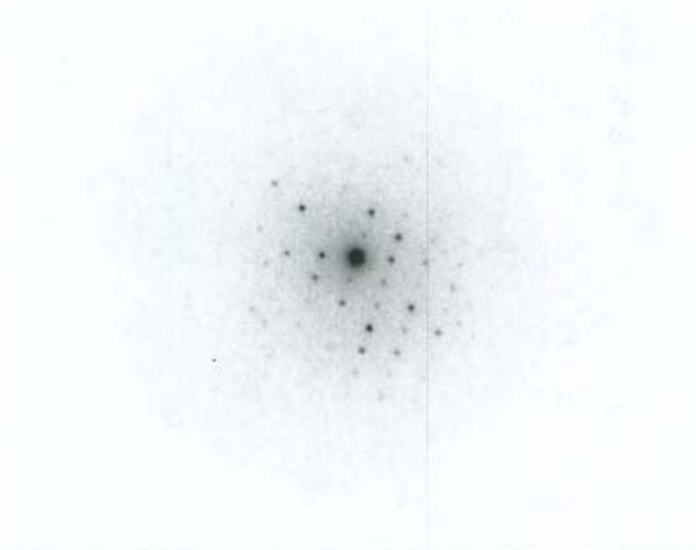
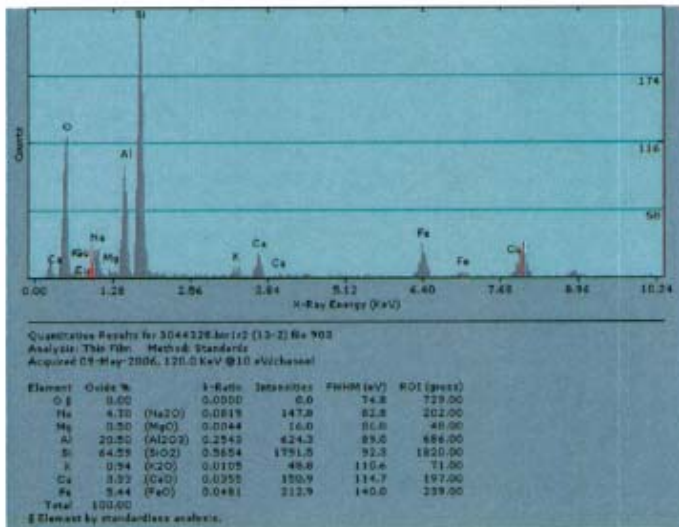
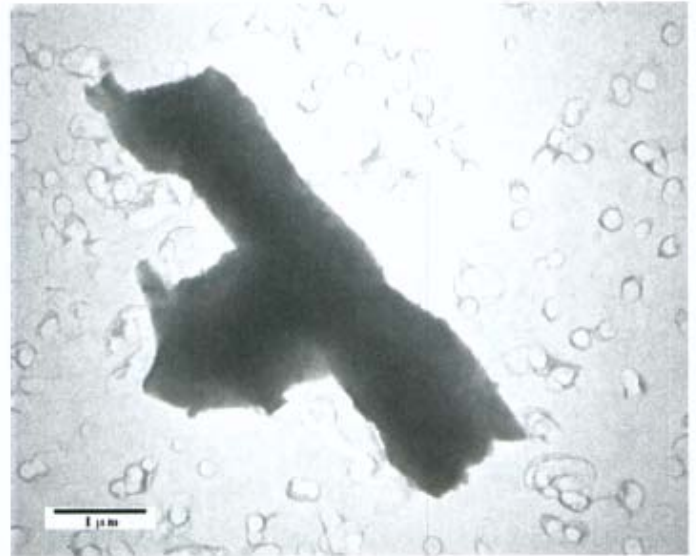
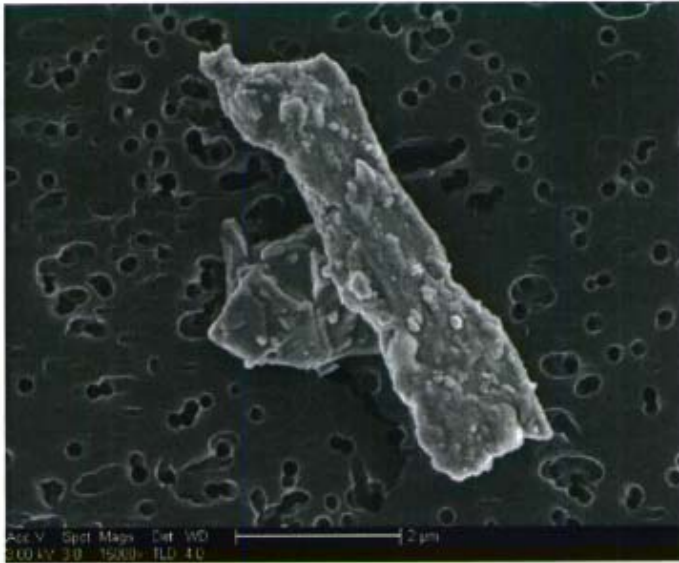


L = 12.5 W = 2.1 AR = 6:1
 Mineral category: Amphibole

Zone 100 D1 9.29
 Phi 89.9 D2 5.27

RJLG # 3044328 Field 13, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator

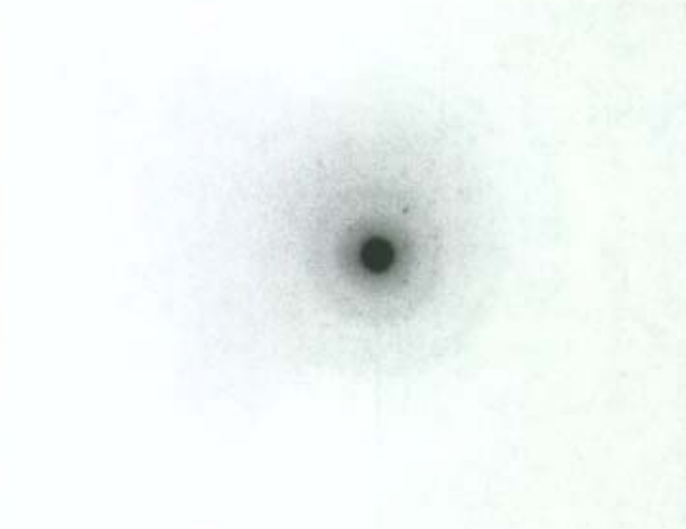
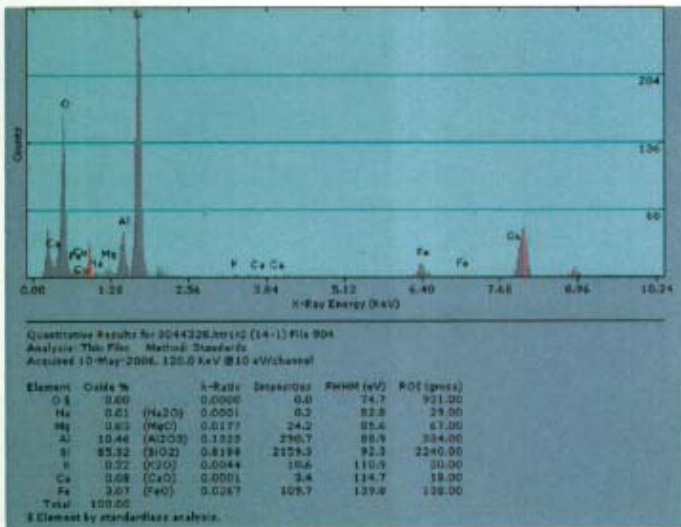
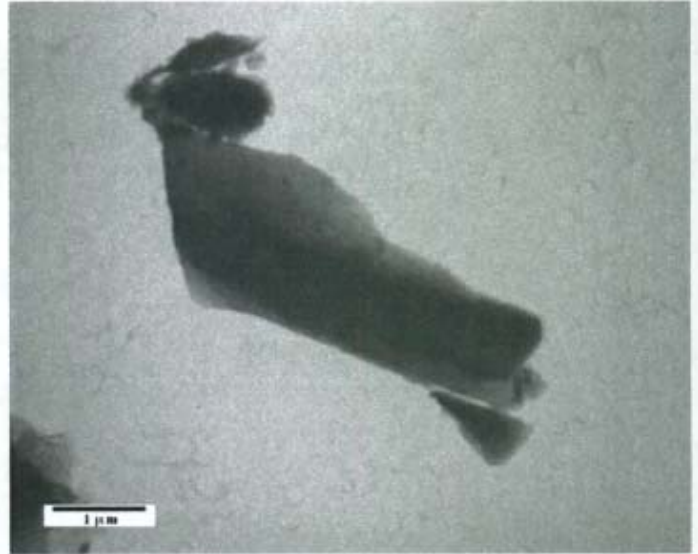
TEM and SEM Data



L = 7.15 W = 1 AR = 7:1
 Mineral category: Amphibole

Zone None Found D1 7.51
 Phi 67.1 D2 5.89

RJLG # 3044328 Field 13, Fiber 2
 NFB-SS04-100804-FG2 -- Elutriator

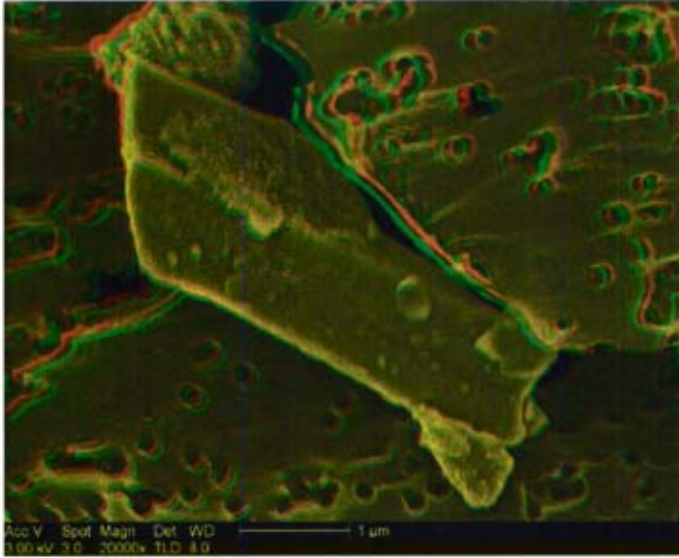


L = 6 W = 1.5 AR = 4:1

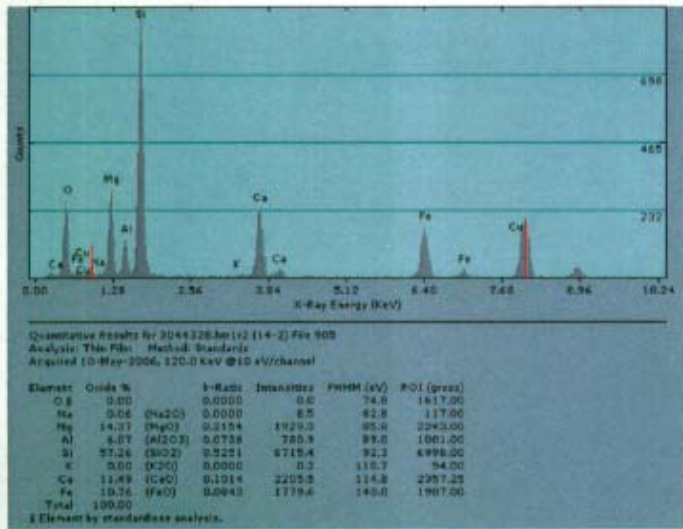
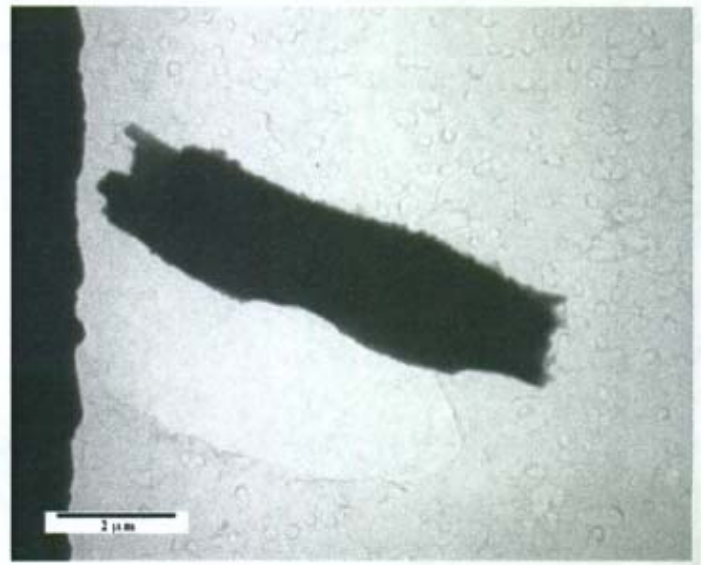
Mineral category: Clay/Mica

Zone	None Found	D1	4.76
Phi	73	D2	3.86

RJLG # 3044328 Field 14, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator



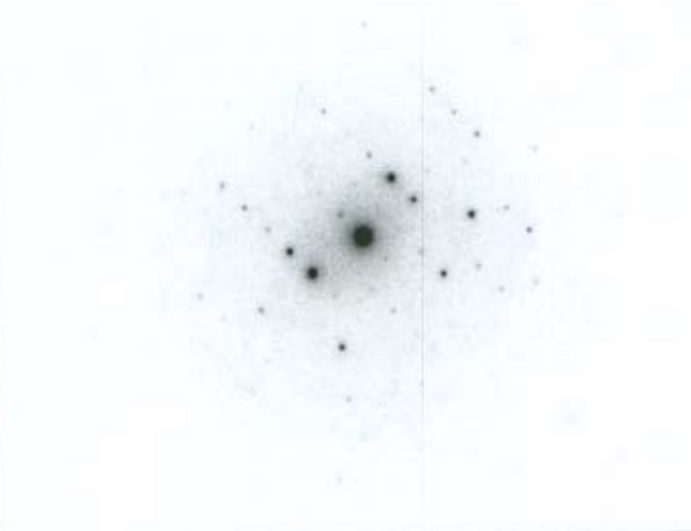
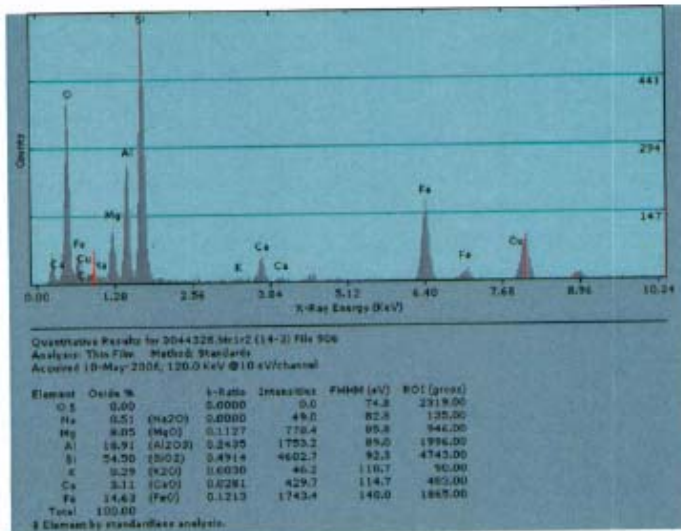
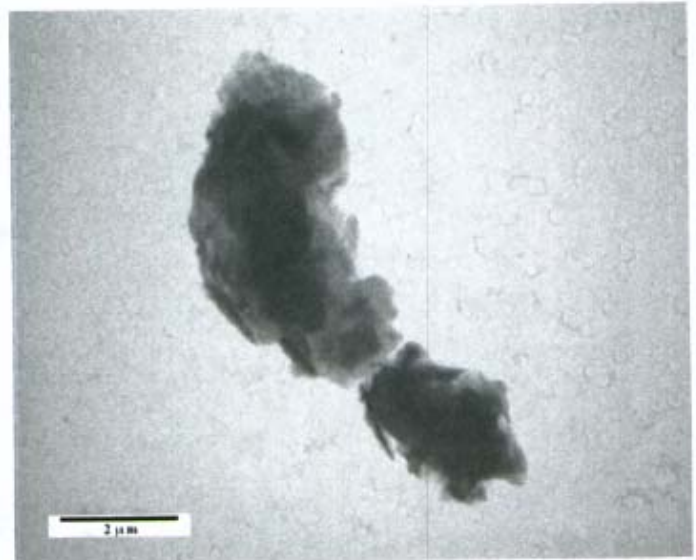
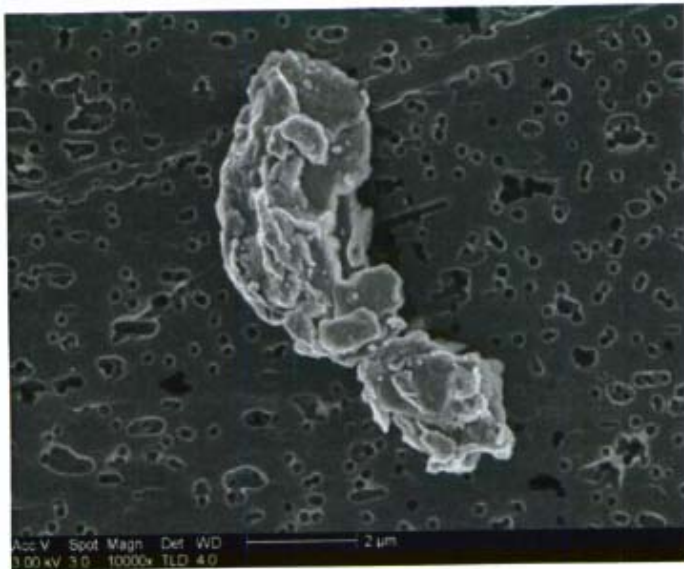
RJLG # 3044328 Field 14, Fiber 1
NFB-SS04-100804-FG2 -- Elutriator



L = 10 W = 2.5 AR = 4:1
 Mineral category: Amphibole

Zone 5-32 D1 5.19
 Phi 85.5 D2 2.9

RJLG # 3044328 Field 14, Fiber 2
 NFB-SS04-100804-FG2 -- Elutriator



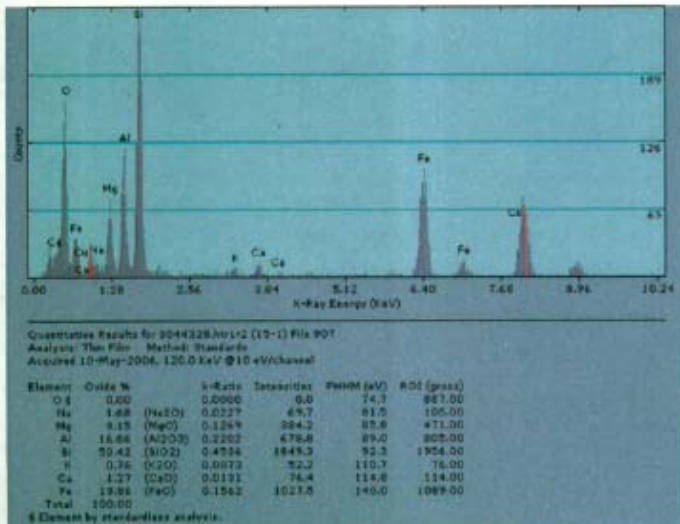
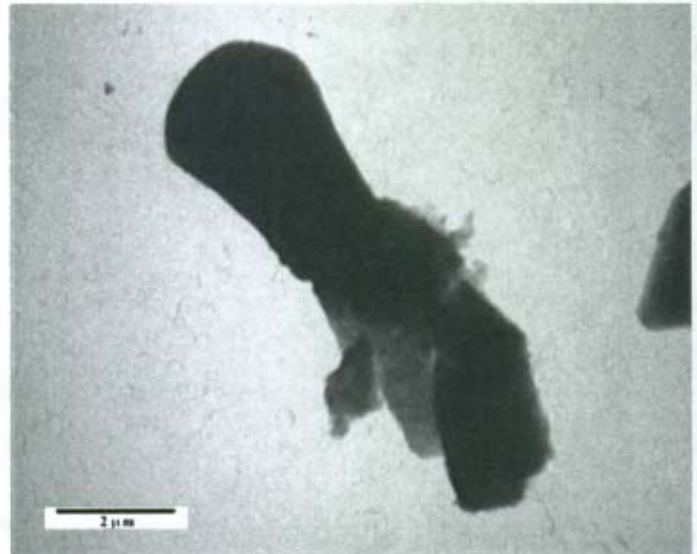
L = 10.1 W = 1.75 AR = 6:1

Mineral category: Clay/Mica

Zone None Found D1 4.39

Phi 72.8 D2 4.34

RJLG # 3044328 Field 14, Fiber 3
 NFB-SS04-100804-FG2 -- Elutriator

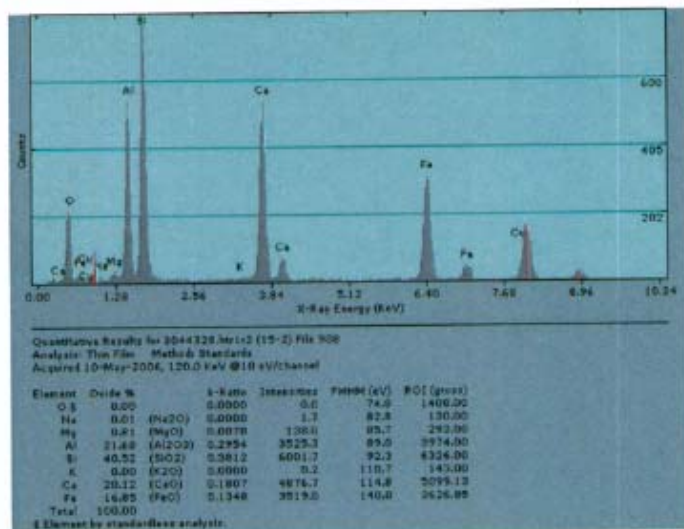
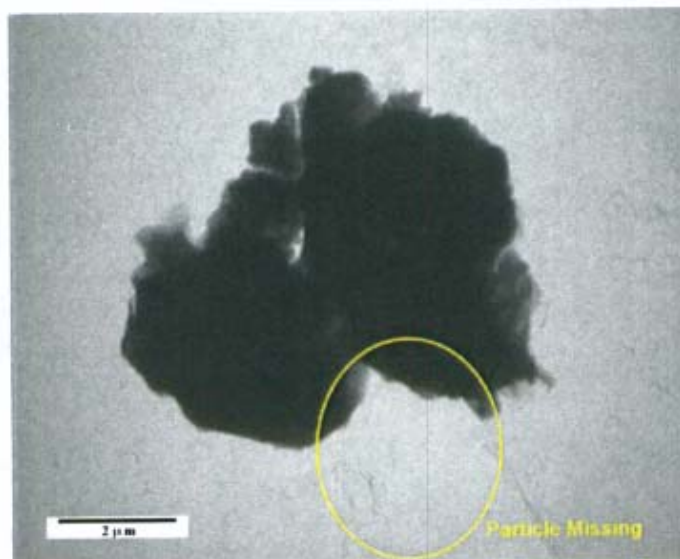
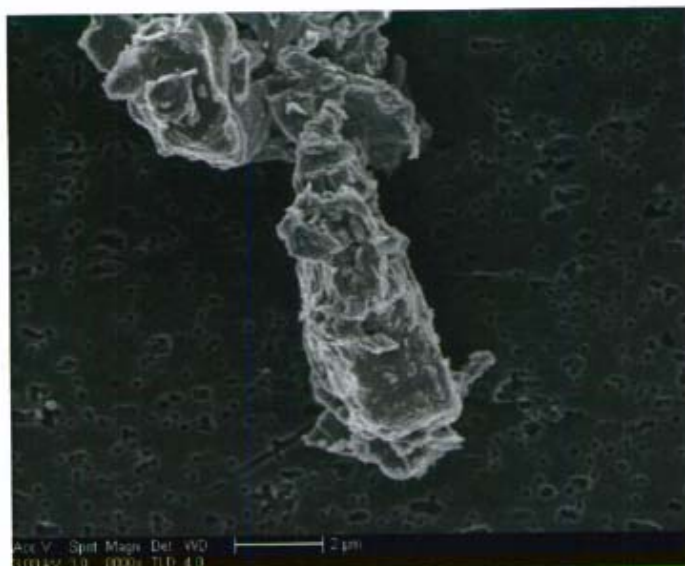


L = 10 W = 2.5 AR = 4:1

Mineral category: Garnet

No SAED pattern acquired

RJLG # 3044328 Field 15, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator

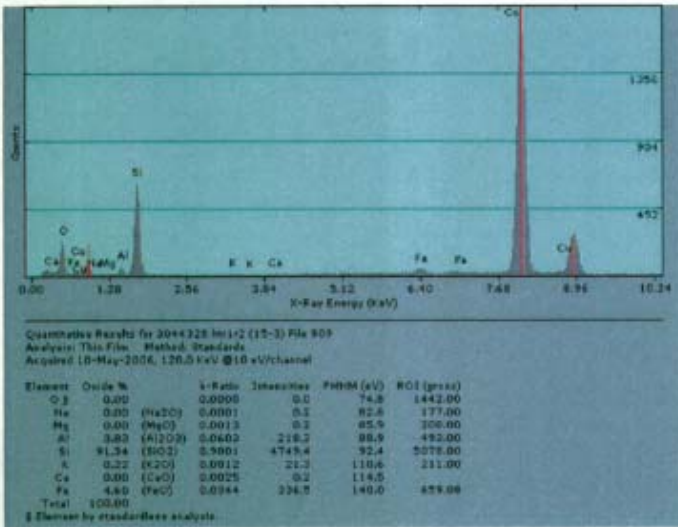
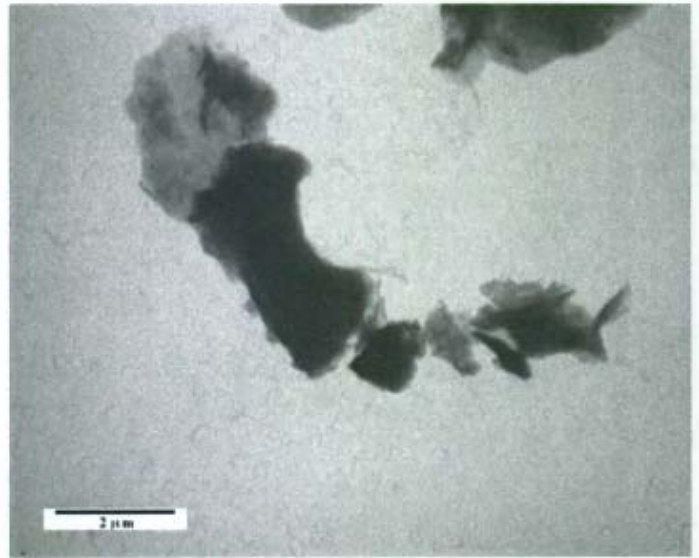


L = 4 W = 3.5 AR = 1:1

Mineral category: Clay/Mica

No SAED pattern acquired

RJLG # 3044328 Field 15, Fiber 2
 NFB-SS04-100804-FG2 -- Elutriator



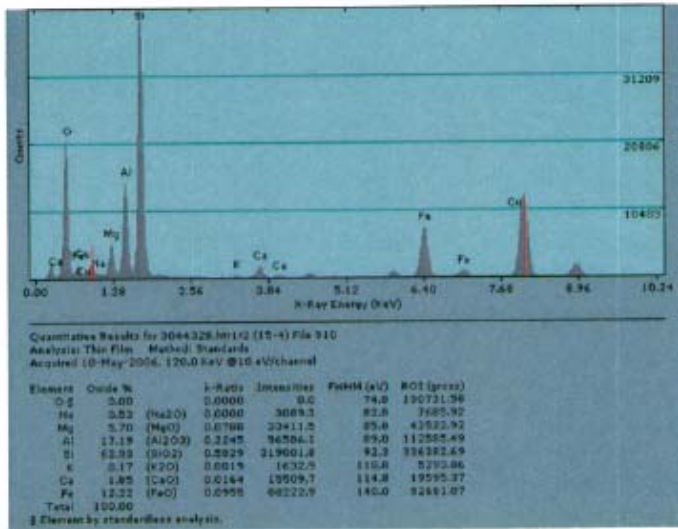
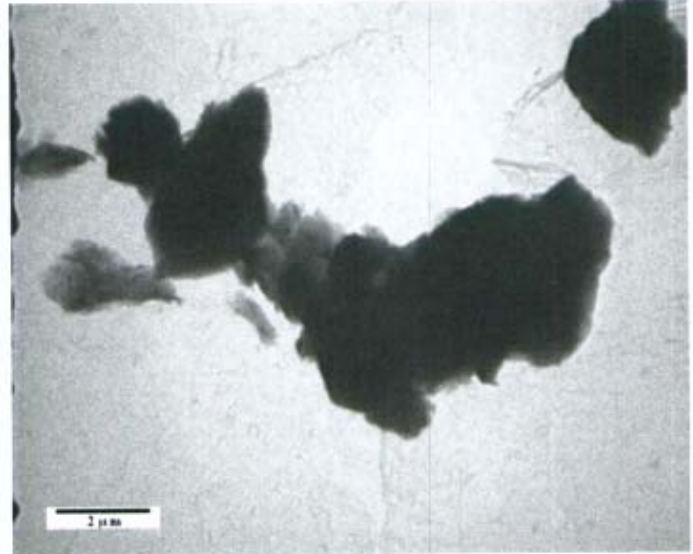
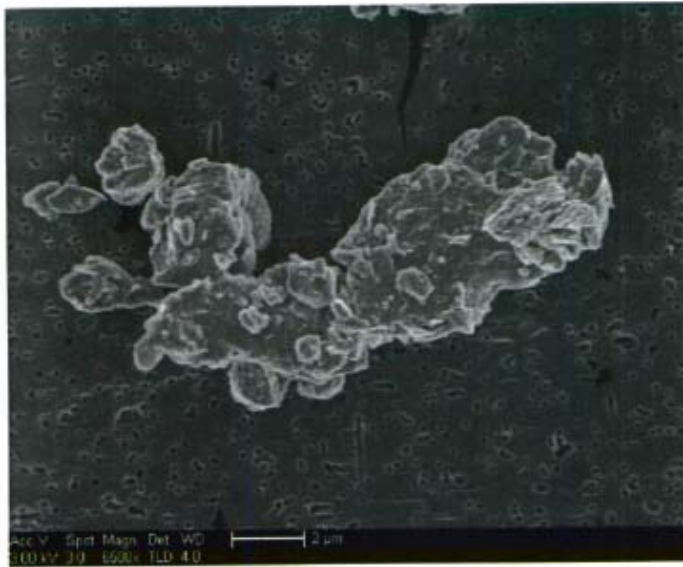
L = 7.5 W = 1.65 AR = 5:1

Mineral category: Unknown

No SAED pattern acquired

RJLG # 3044328 Field 15, Fiber 3
 NFB-SS04-100804-FG2 -- Elutriator

TEM and SEM Data



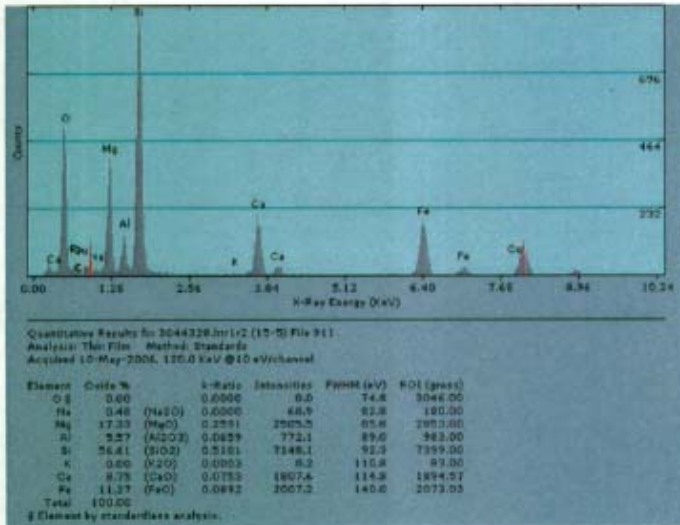
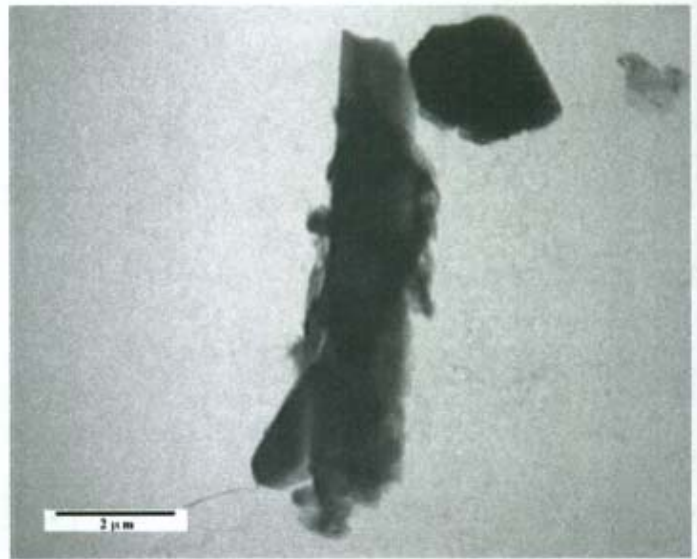
L = 16.5 W = 4 AR = 4:1

Mineral category: Amphibole

No SAED pattern acquired

RJLG # 3044328 Field 15, Fiber 4
 NFB-SS04-100804-FG2 -- Elutriator

TEM and SEM Data

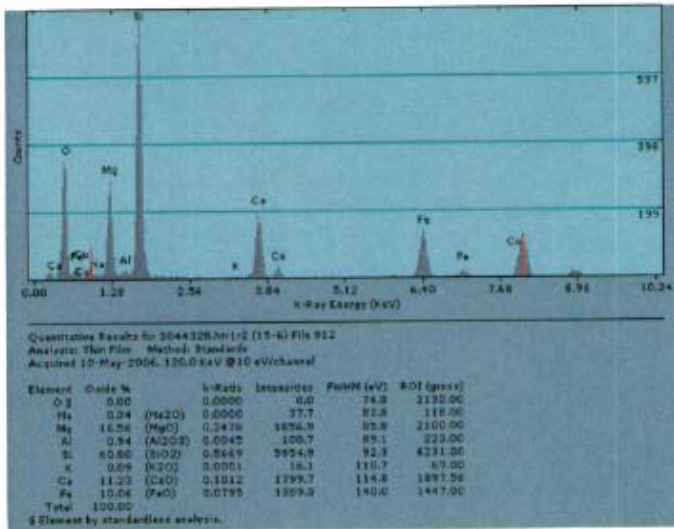
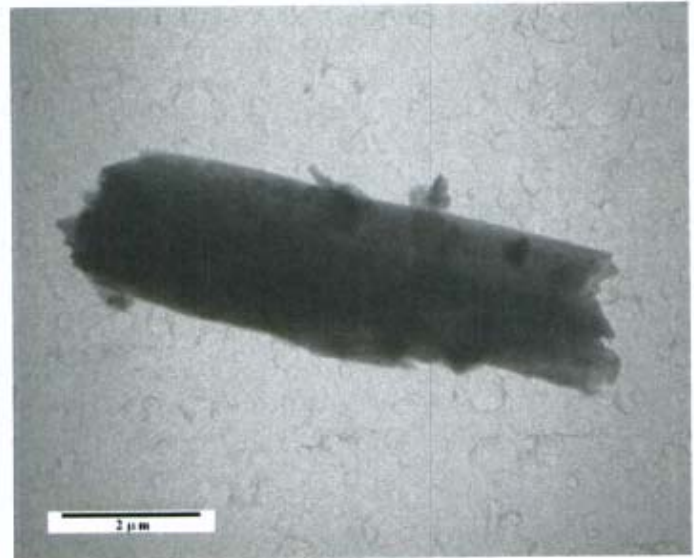
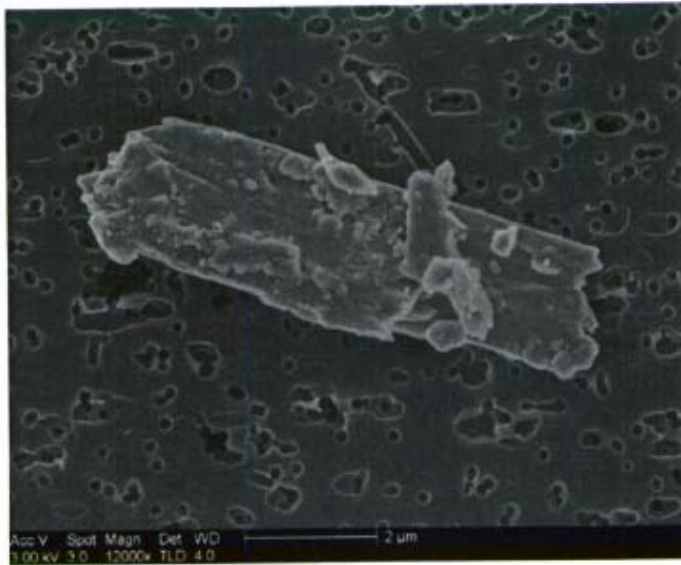


L = 10 W = 1.65 AR = 6:1
 Mineral category: Unknown

Zone 210 D1 7.23
 Phi 89.2 D2 5.37

RJLG # 3044328 Field 15, Fiber 5
 NFB-SS04-100804-FG2 -- Elutriator

TEM and SEM Data

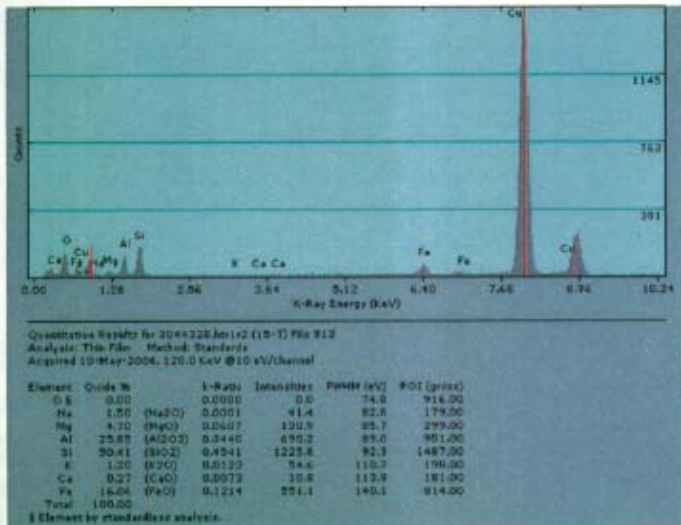
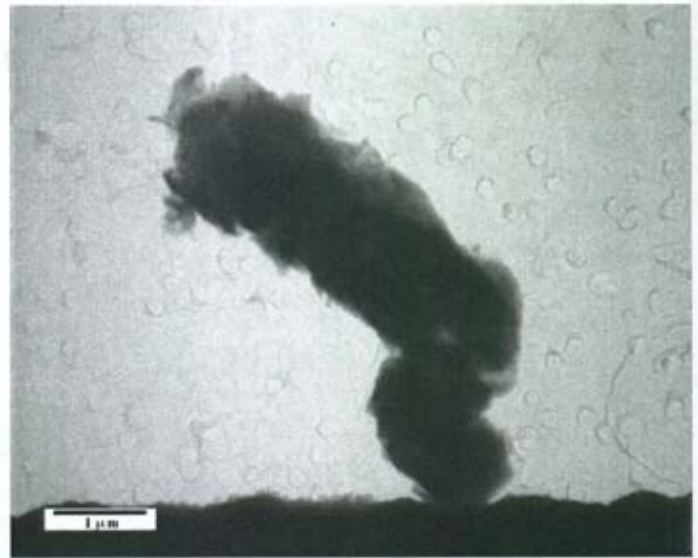
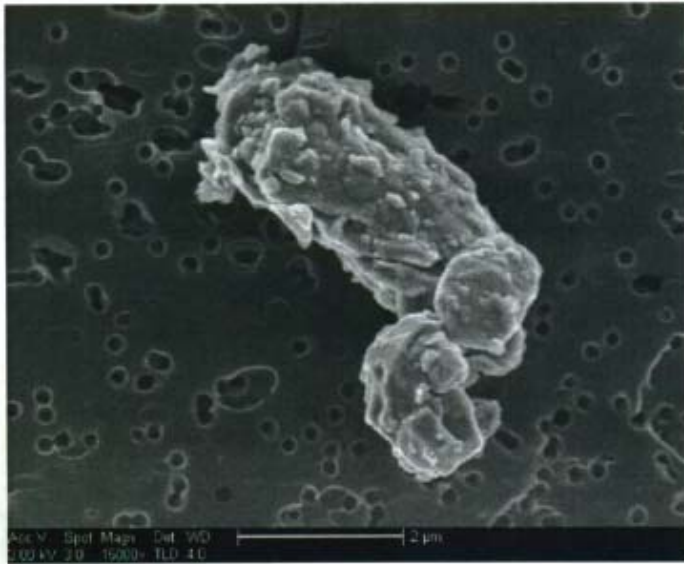


L = 10.5 W = 2.6 AR = 4:1

Mineral category: Amphibole

Zone	101	D1	9.24
Phi	75.5	D2	5.04

RJLG # 3044328 Field 15, Fiber 6
NFB-SS04-100804-FG2 -- Elutriator

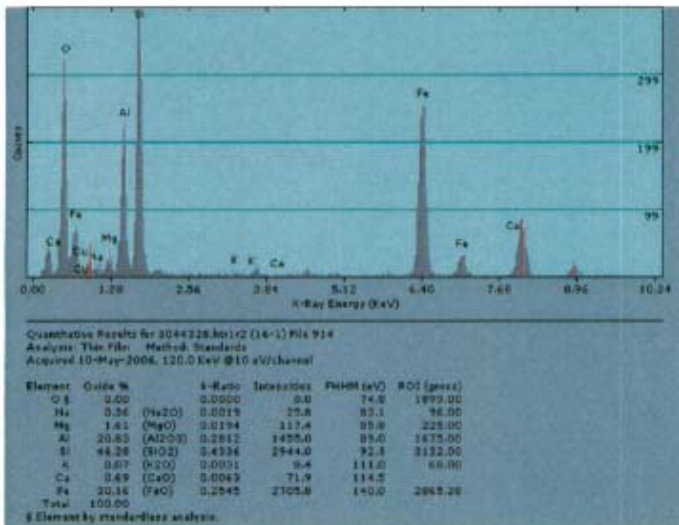
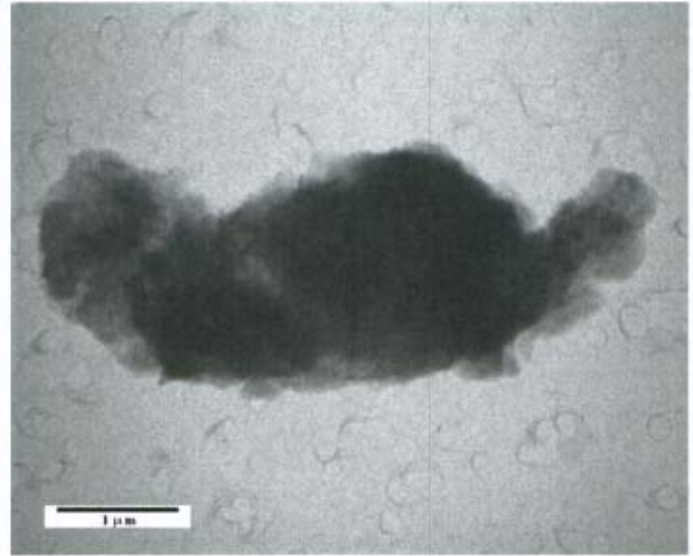
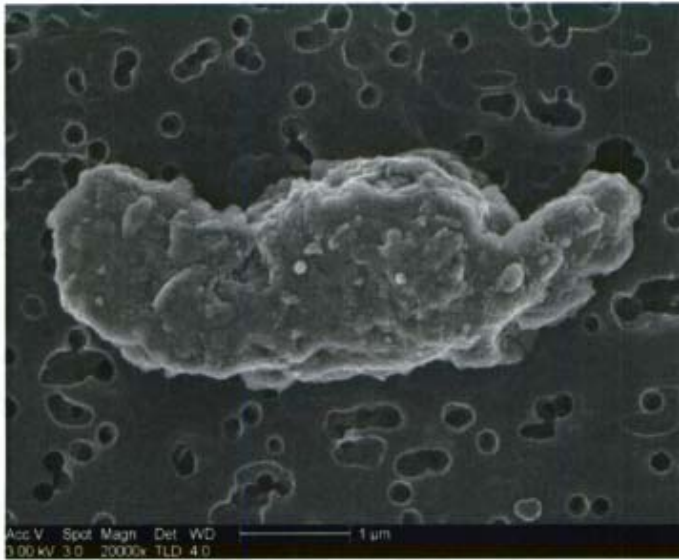


L = 7.5 W = 1.6 AR = 5:1

Mineral category: Clay/Mica

No SAED pattern acquired

RJLG # 3044328 Field 15, Fiber 7
NFB-SS04-100804-FG2 -- Elutriator



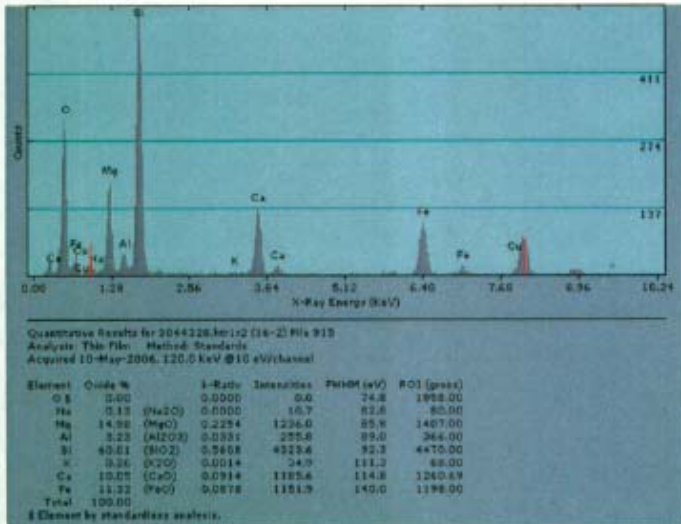
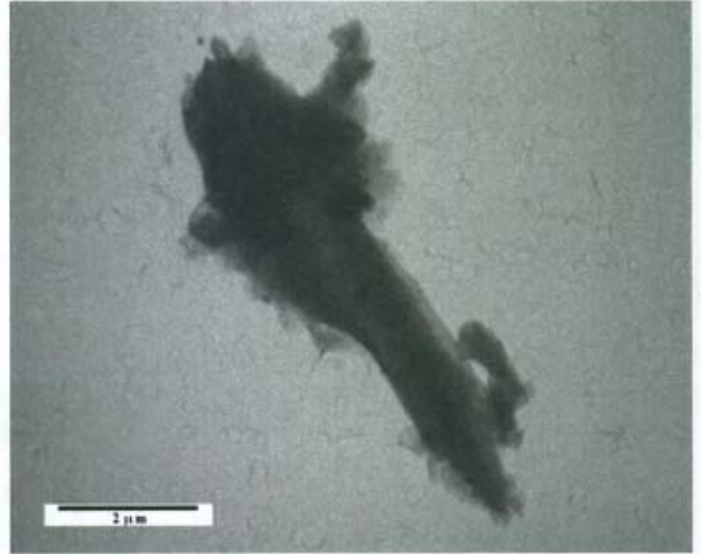
L = 6.25 W = 1.75 AR = 4:1

Mineral category: Clay/Mica

No SAED pattern acquired

RJLG # 3044328 Field 16, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator

TEM and SEM Data



L = 8.5 W = 1.5 AR = 6:1

Mineral category: Amphibole

Zone 210

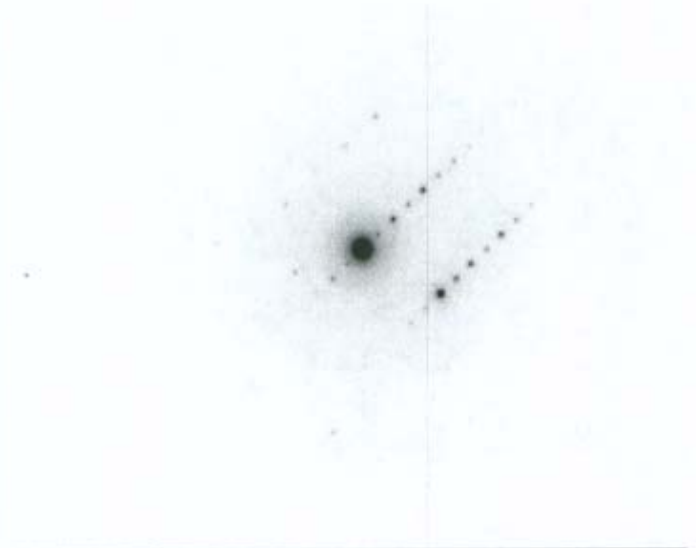
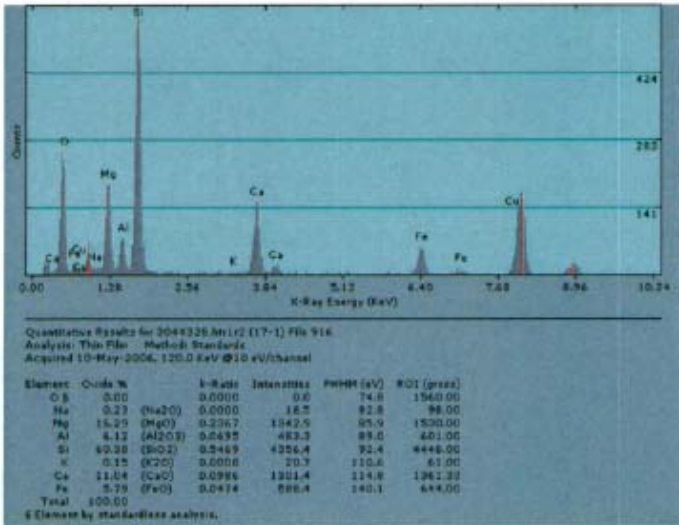
Phi 81.4

D1 5

D2 3.5

RJLG # 3044328 Field 16, Fiber 2
 NFB-SS04-100804-FG2 -- Elutriator

TEM and SEM Data



L = 13.4 W = 2.1 AR = 6:1

Mineral category: Pyroxene

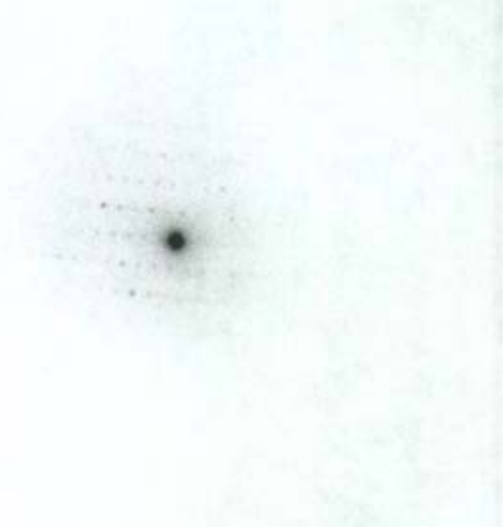
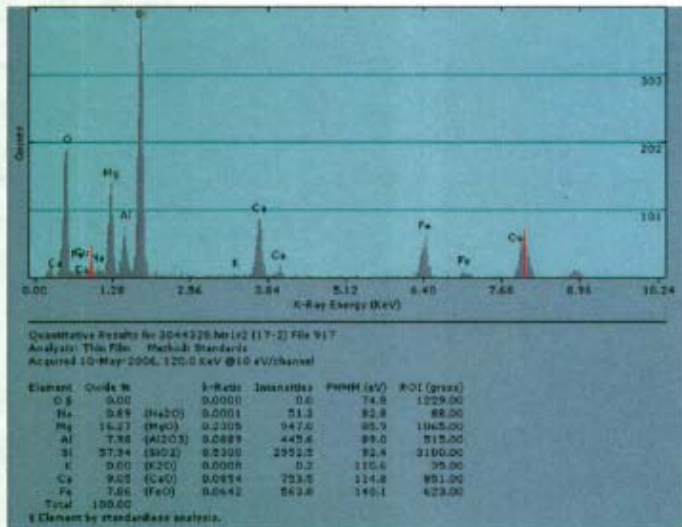
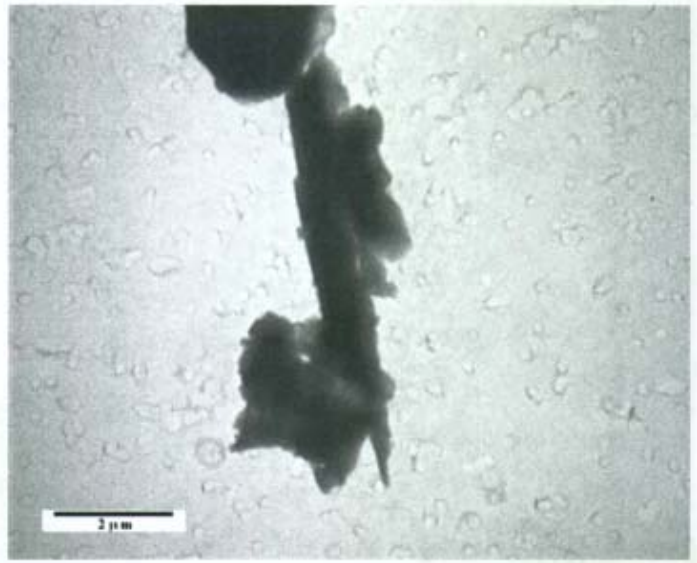
Zone 33-2

D1 6.57

Phi 85.3

D2 1.6

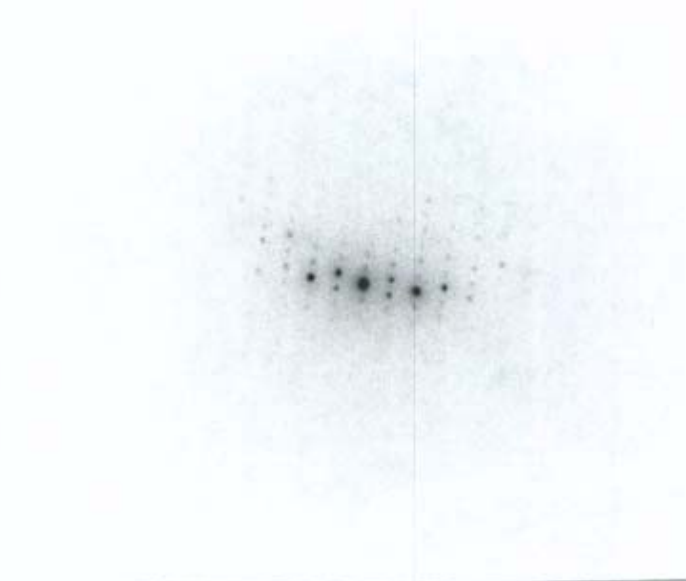
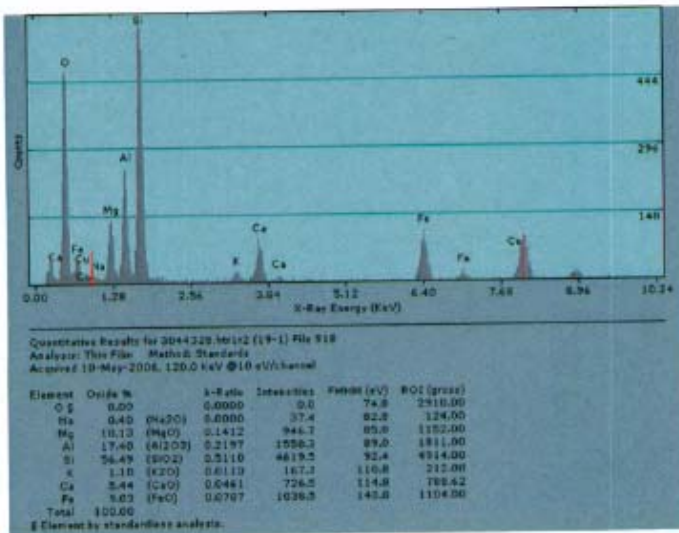
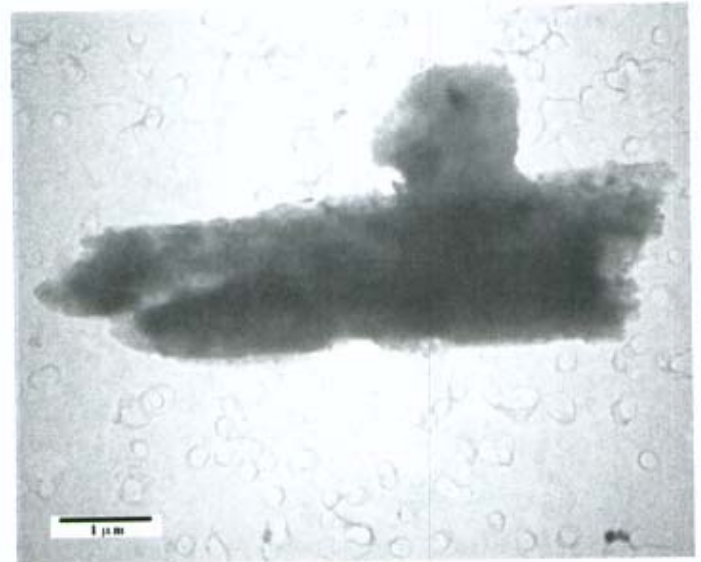
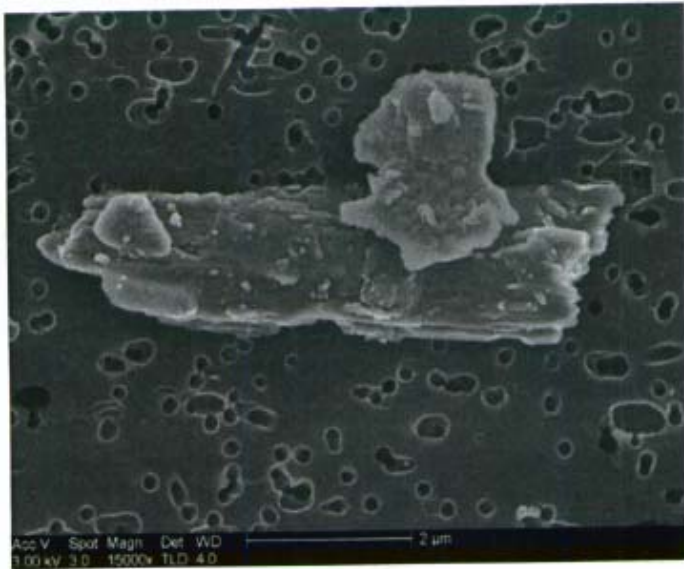
RJLG # 3044328 Field 17, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator



L = 7.9 W = .8 AR = 10:1
 Mineral category: Amphibole

Zone 112 D1 8.62
 Phi 82.7 D2 5.02

RJLG # 3044328 Field 18, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator



L = 8.25 W = 1.5 AR = 6:1

Mineral category: Amphibole

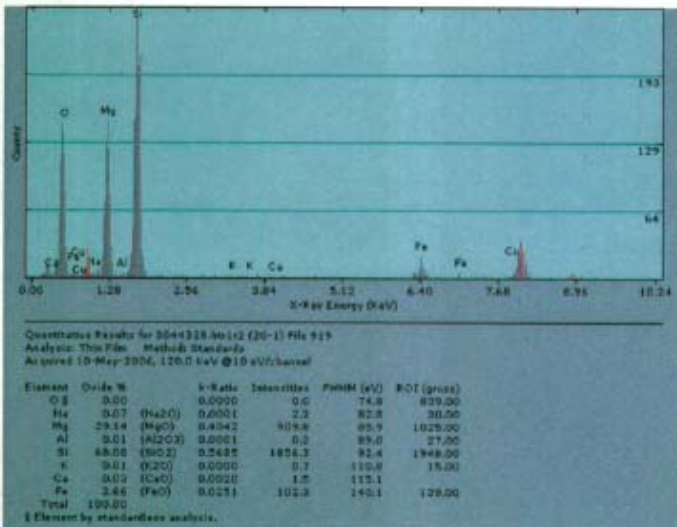
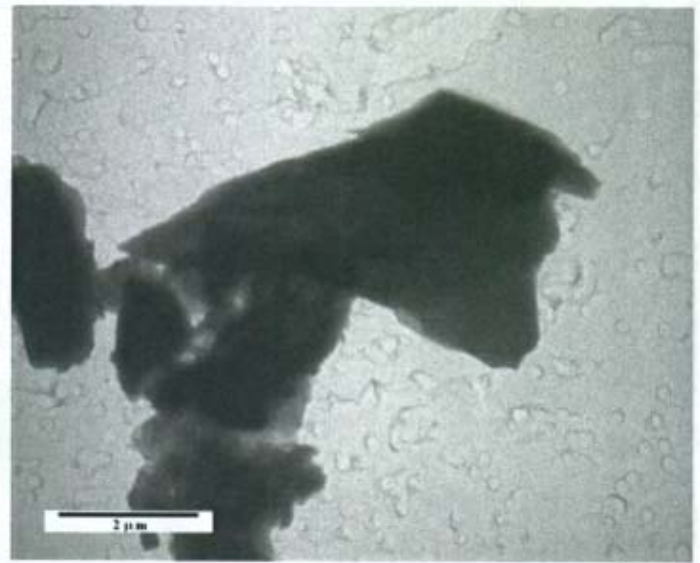
Zone 101

Phi 74.7

D1 9.2

D2 4.93

RJLG # 3044328 Field 19, Fiber 1
NFB-SS04-100804-FG2 -- Elutriator

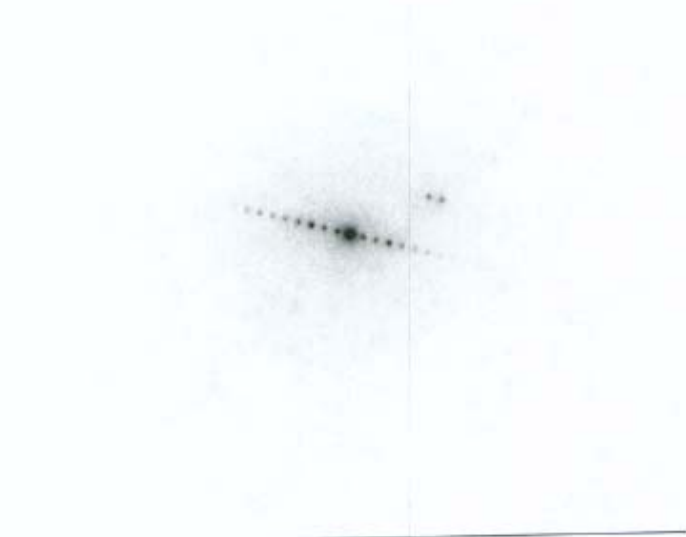
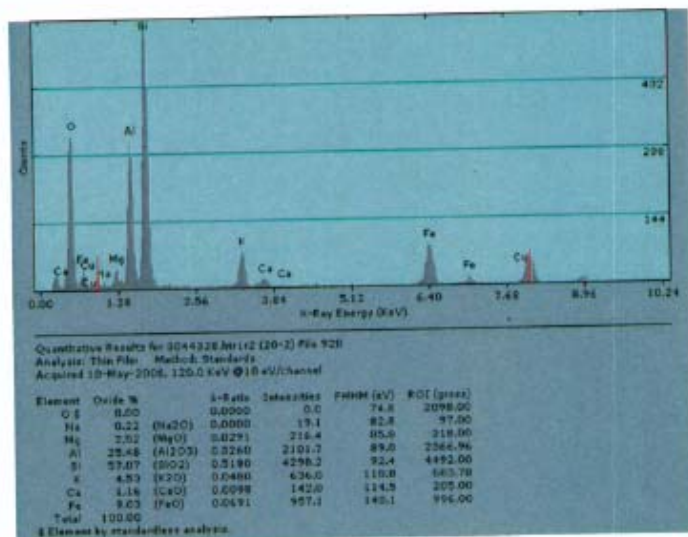
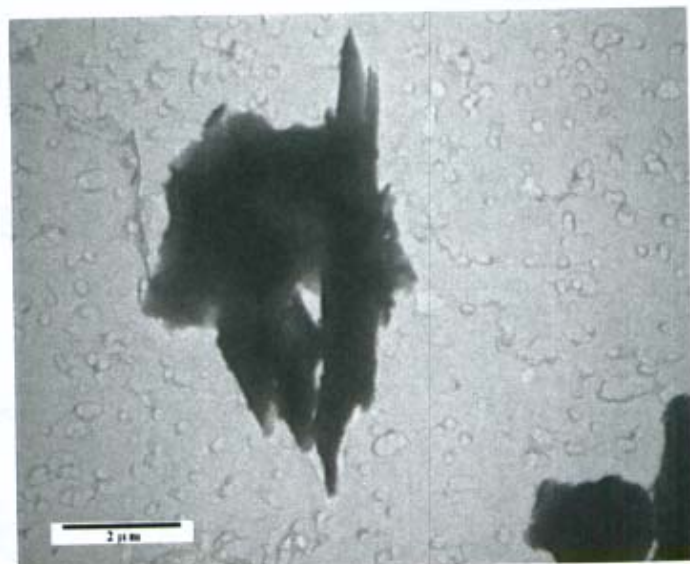
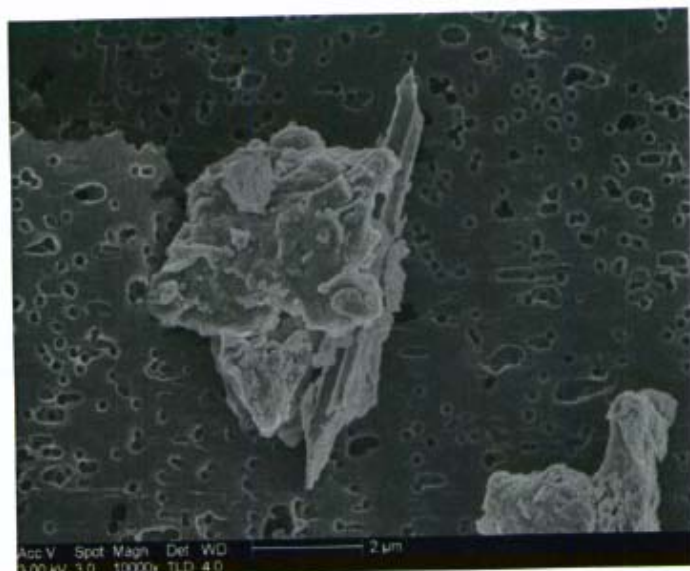


L = 7.8 W = 2.5 AR = 3:1

Mineral category: Amphibole

No SAED pattern acquired

RJLG # 3044328 Field 20, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator

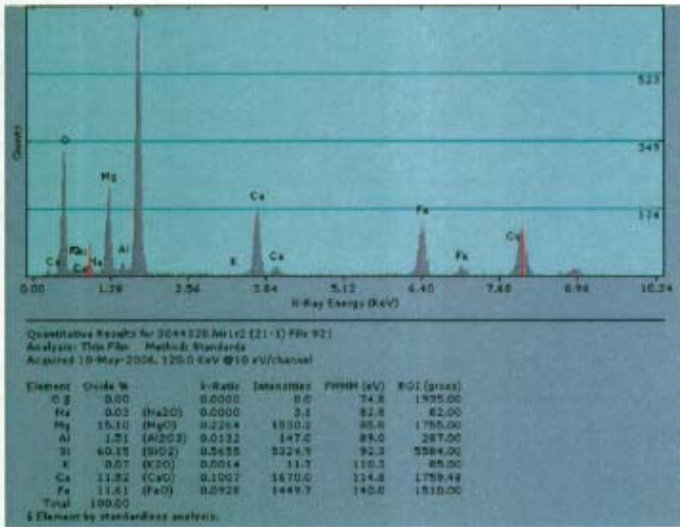


SAED not measured

L = 8 W = 1.1 AR = 7:1

Mineral category: Unknown

RJLG # 3044328 Field 20, Fiber 2
 NFB-SS04-100804-FG2 -- Elutriator

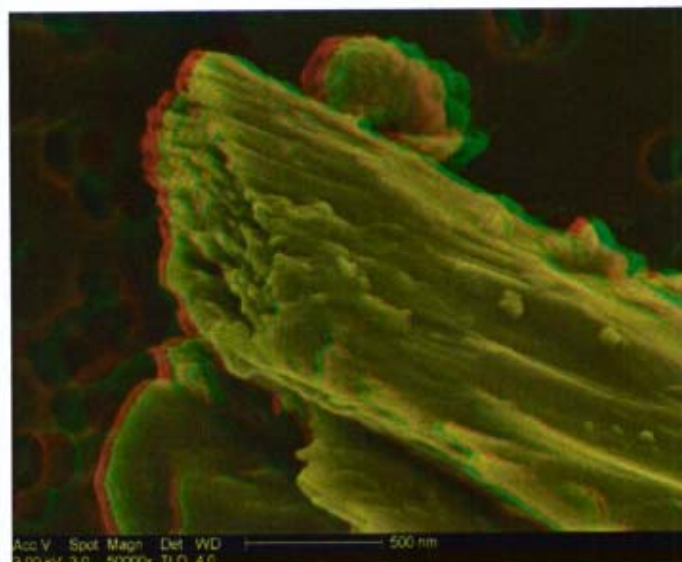


L = 8 W = 1 AR = 8:1
 Mineral category: Amphibole

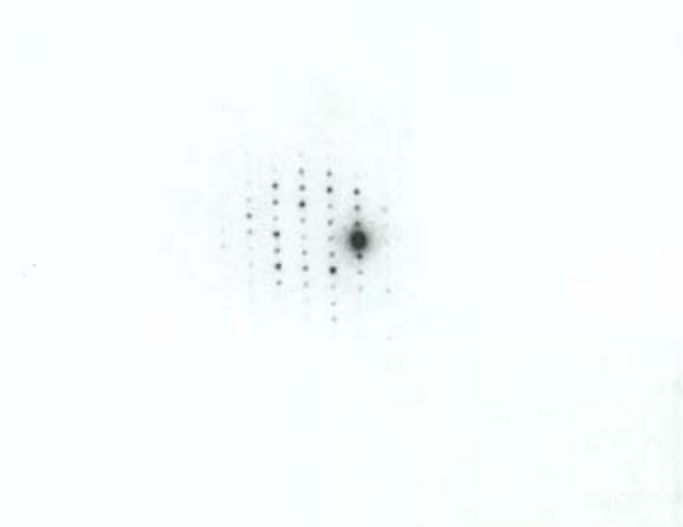
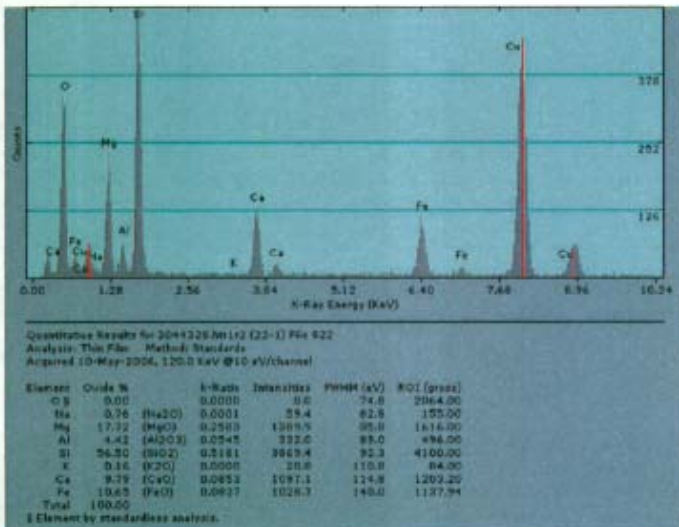
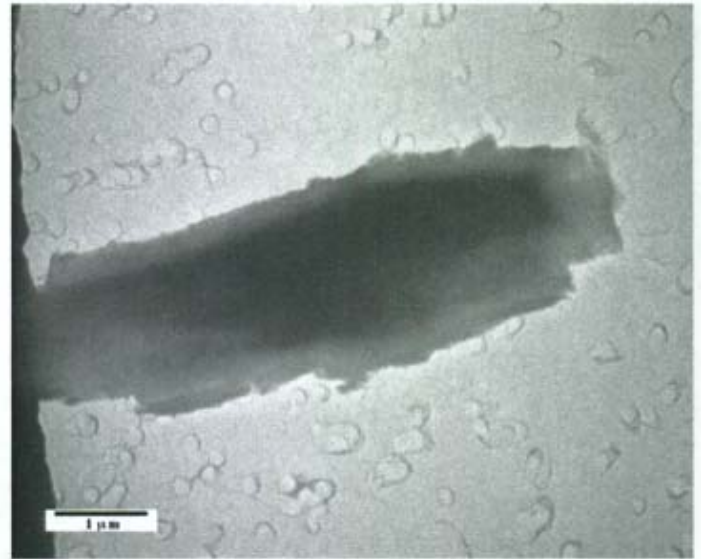
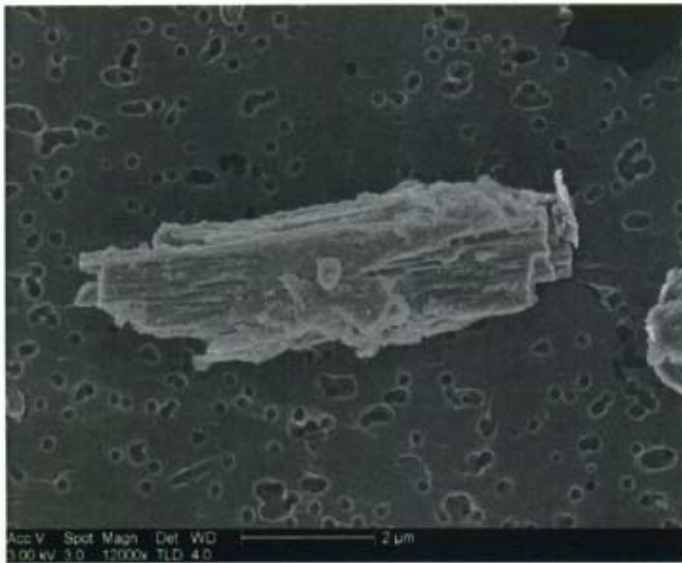
Zone 110 D1 8.47
 Phi 77.4 D2 5.15

RJLG # 3044328 Field 21, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator

TEM and SEM Data



RJLG # 3044328 Field 21, Fiber 1
NFB-SS04-100804-FG2 -- Elutriator



L = 8 W = 1.95 AR = 4:1
 Mineral category: Amphibole

Zone 112 D1 8.62
 Phi 83.7 D2 5.08

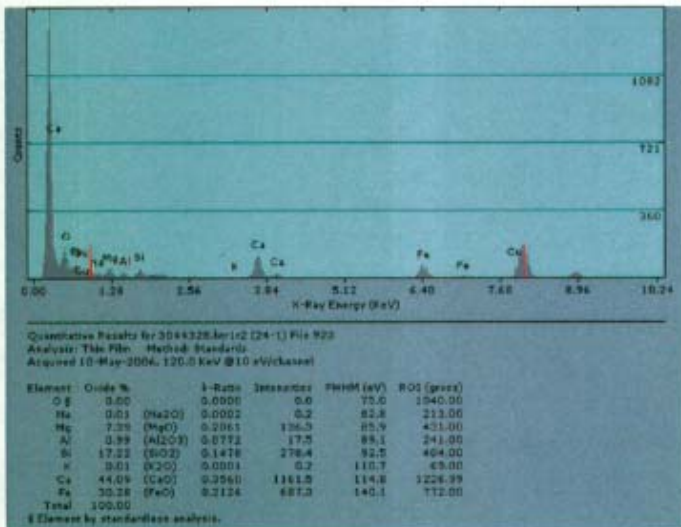
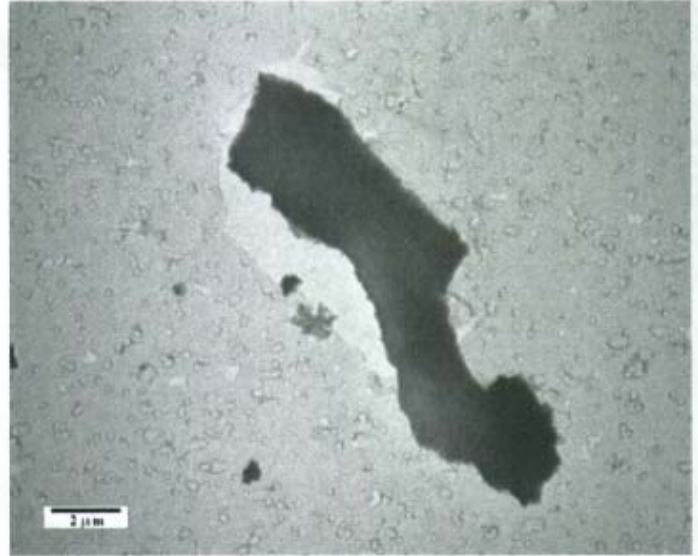
RJLG # 3044328 Field 22, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator



TEM could not relocate

Mineral category: Unknown

RJLG # 3044328 Field 23, Fiber 1
NFB-SS04-100804-FG2 -- Elutriator



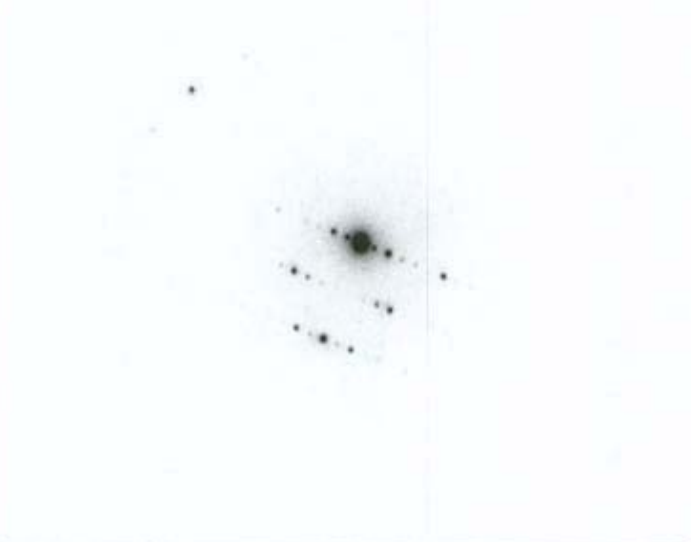
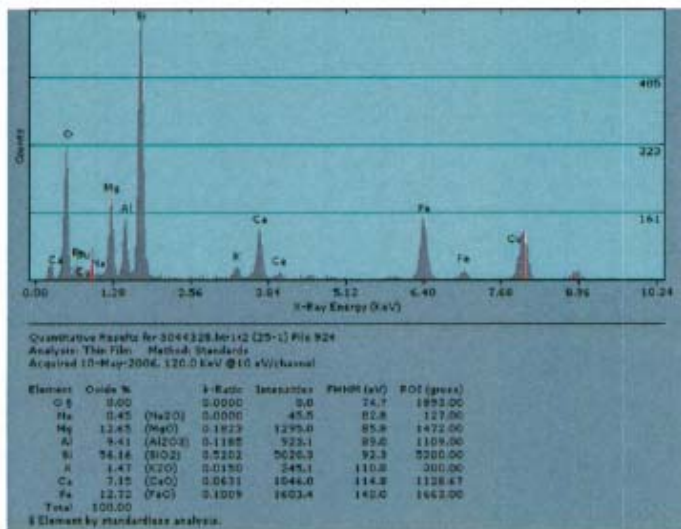
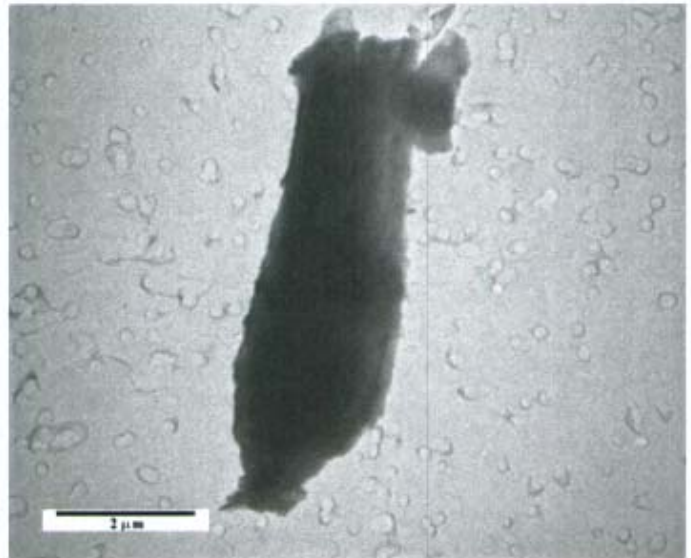
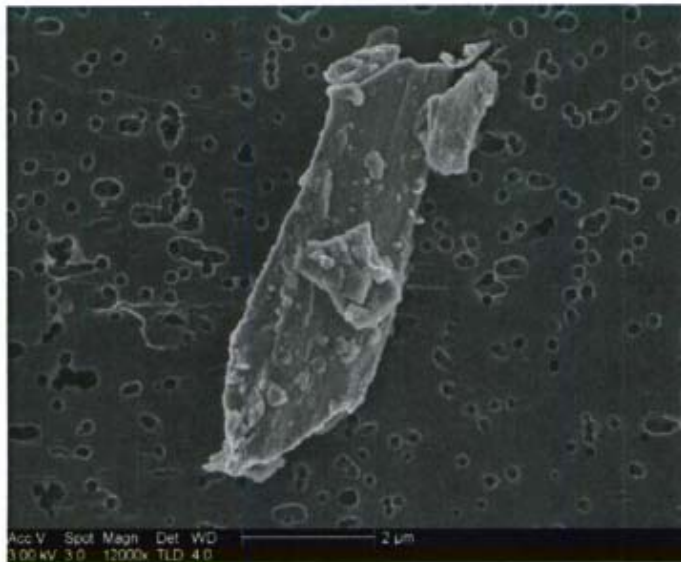
L = 16.25 W = 3.25 AR = 5:1

Mineral category: Pyroxene

No SAED pattern acquired

RJLG # 3044328 Field 24, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator

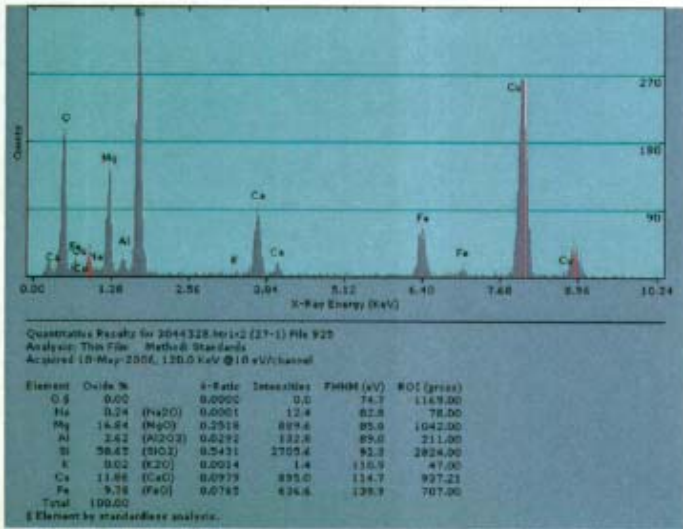
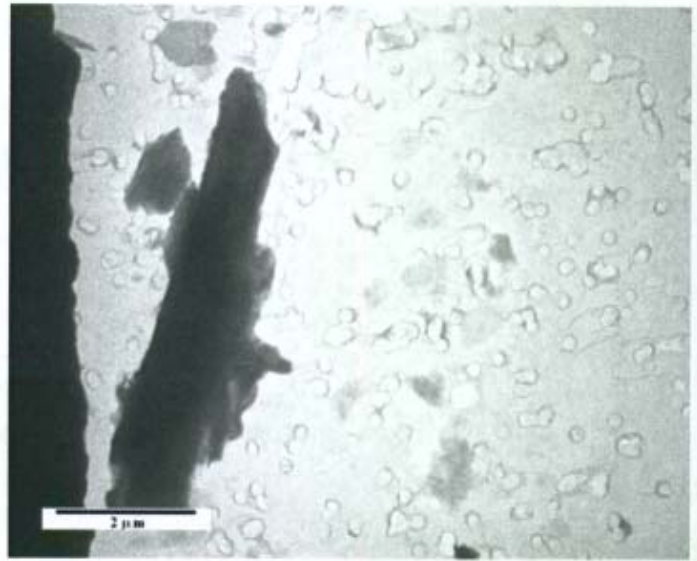
TEM and SEM Data



L = 8.5 W = 2.5 AR = 3:1
 Mineral category: Amphibole

Zone	201	D1	9.24
Phi	82.7	D2	2.71

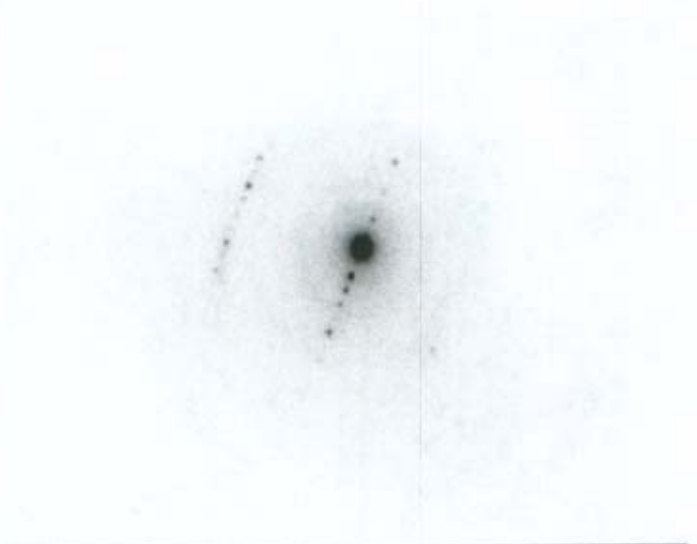
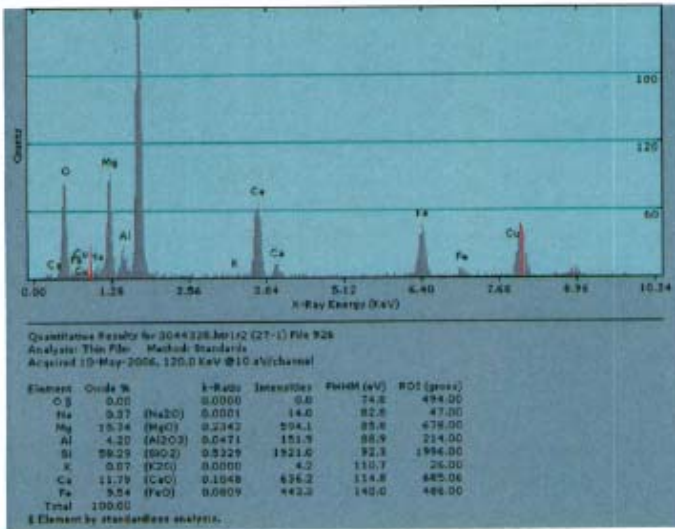
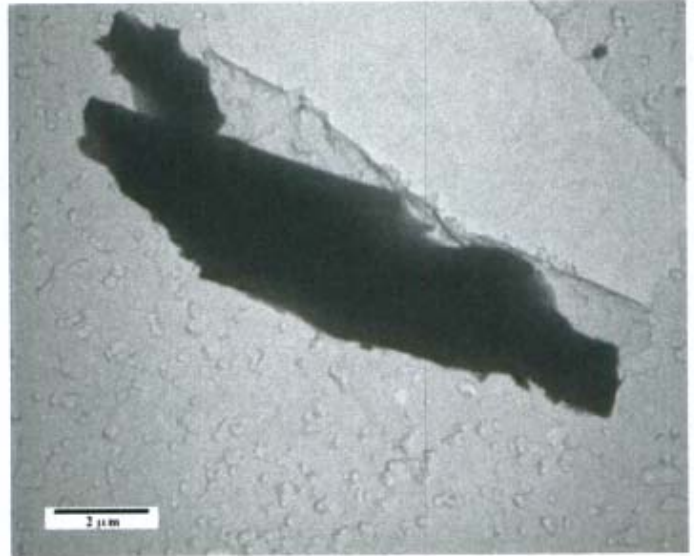
RJLG # 3044328 Field 25, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator



L = 7.25 W = 1.5 AR = 5:1
 Mineral category: Amphibole

Zone 33-2 D1 8.61
 Phi 87 D2 1.7

RJLG # 3044328 Field 26, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator



L = 14.5 W = 2.5 AR = 6:1

Mineral category: Amphibole

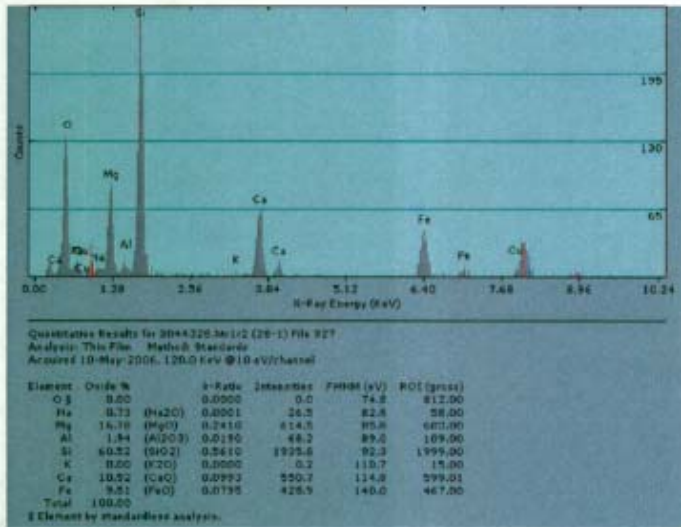
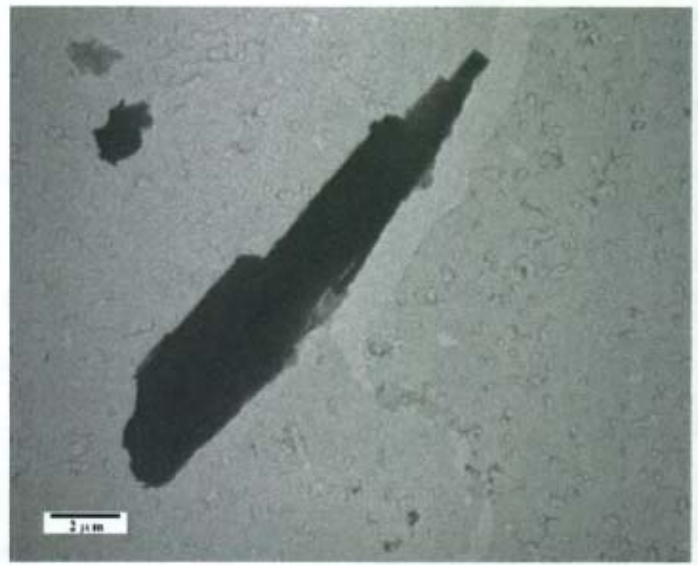
Zone 30-1

Phi 86.1

D1 9.17

D2 1.36

RJLG # 3044328 Field 27, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator



L = 15.75 W = 2.75 AR = 6:1

Mineral category: Pyroxene

Zone 332

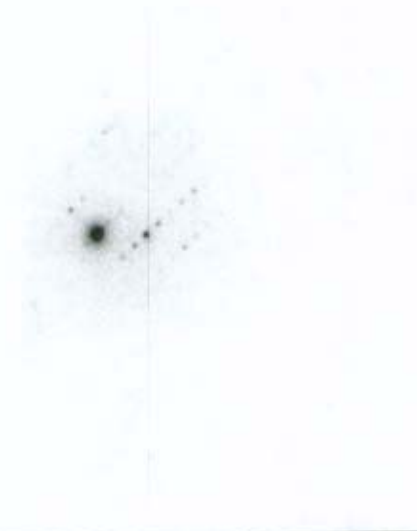
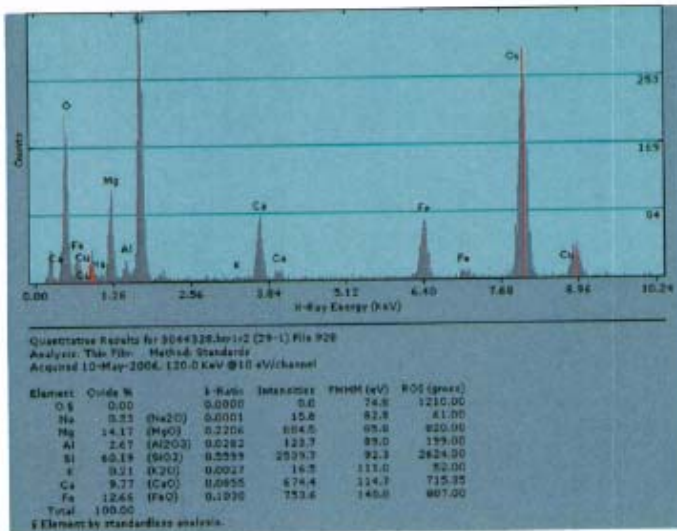
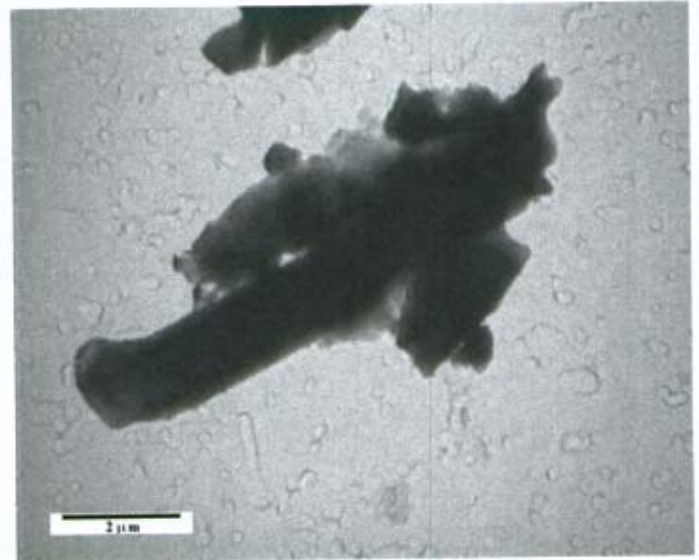
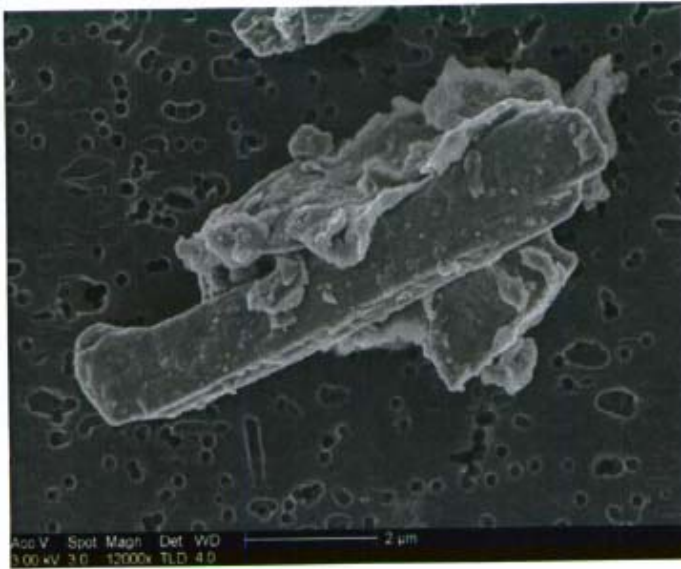
Phi 87.7

D1 6.62

D2 1.82

RJLG # 3044328 Field 28, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator

TEM and SEM Data



L = 5.75 W = .4 AR = 14:1

Mineral category: Amphibole

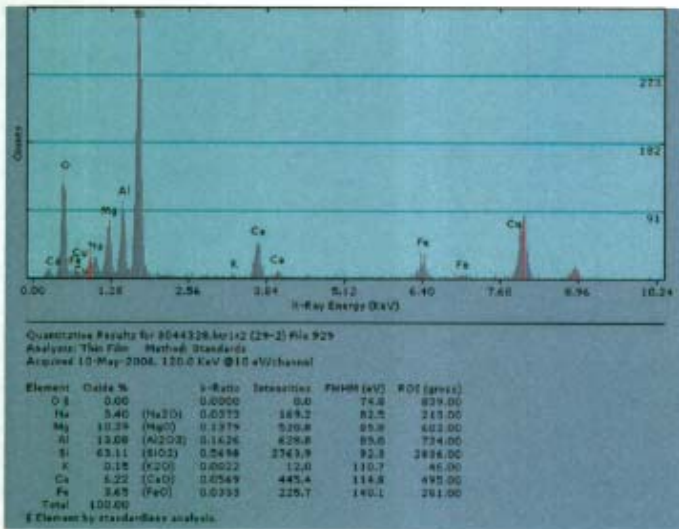
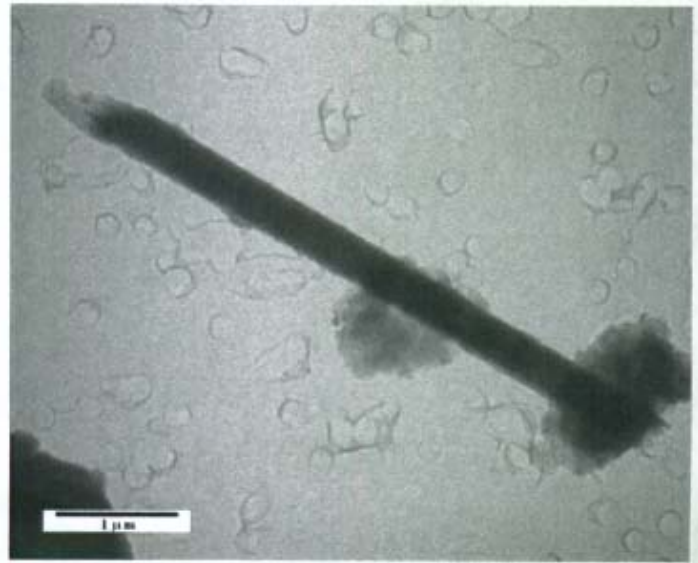
Zone 114

D1 8.54

Phi 83.5

D2 3.98

RJLG # 3044328 Field 29, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator



L = 11 W = 1.5 AR = 7:1

Mineral category: Amphibole

Zone 301

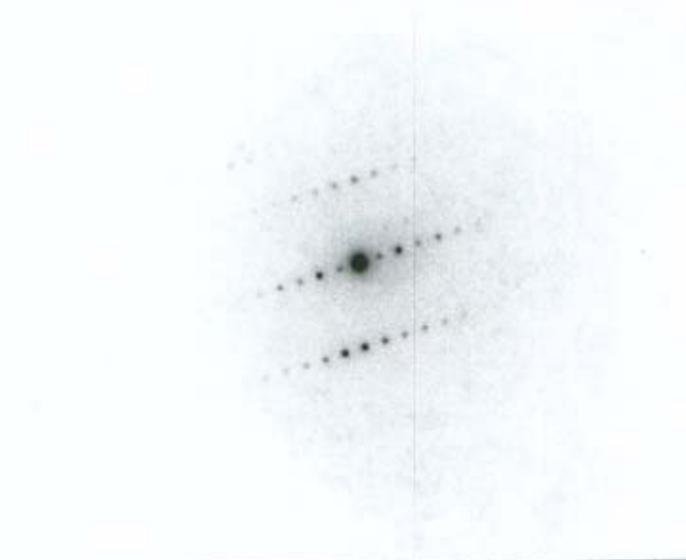
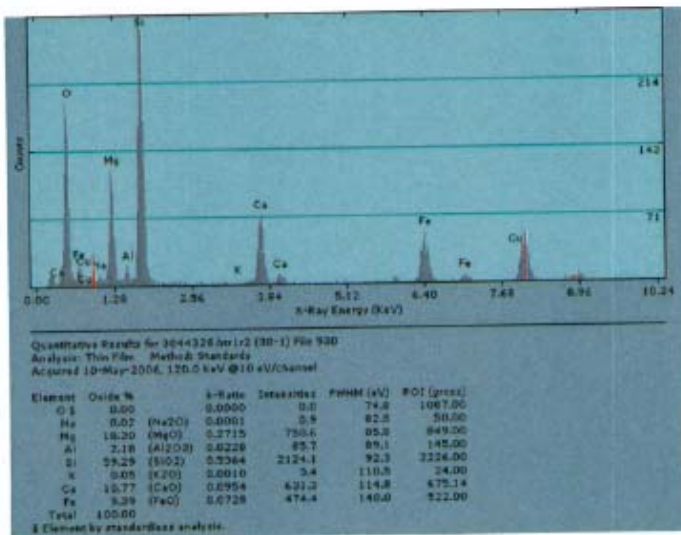
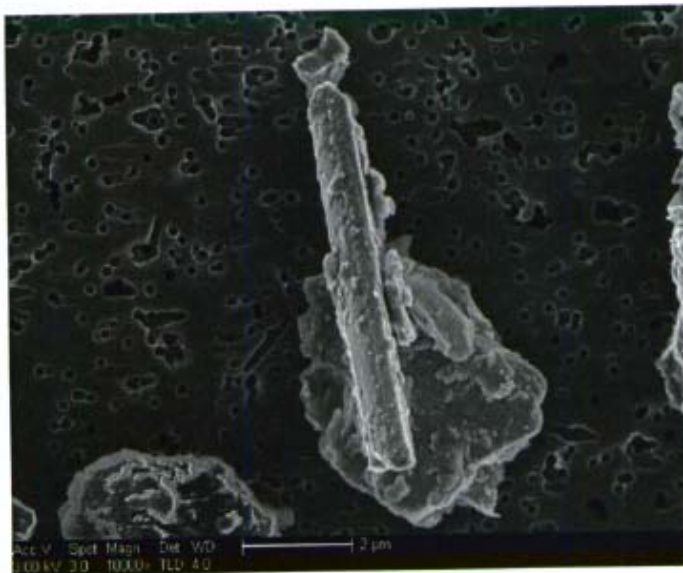
Phi 83.5

D1 9.29

D2 1.8

RJLG # 3044328 Field 29, Fiber 2
 NFB-SS04-100804-FG2 -- Elutriator

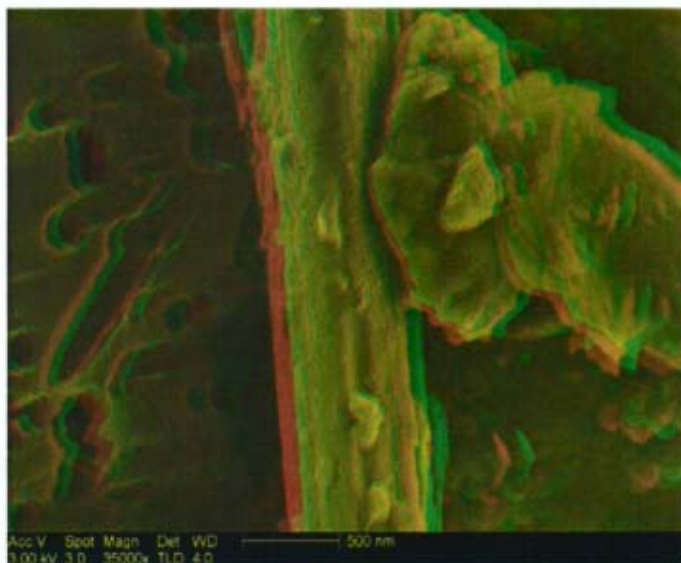
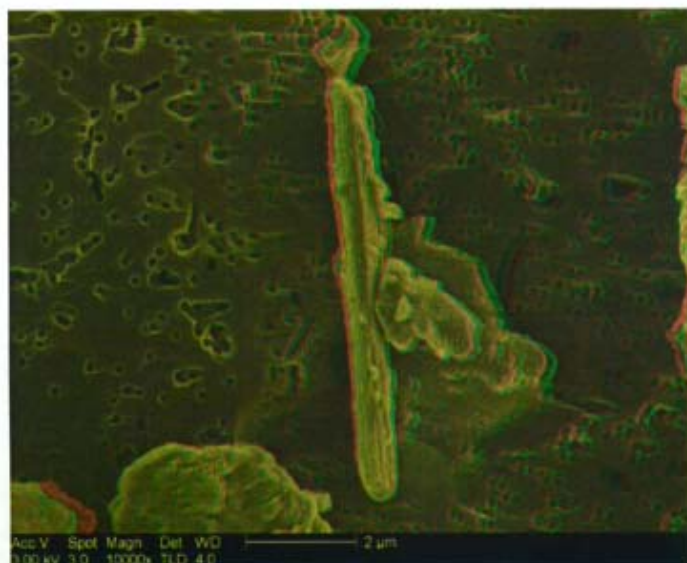
TEM and SEM Data



L = 9.5 W = 1.1 AR = 9:1
 Mineral category: Pyroxene

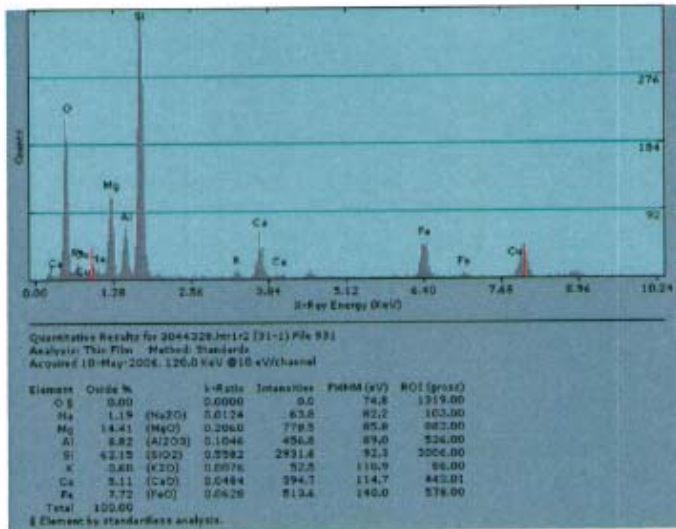
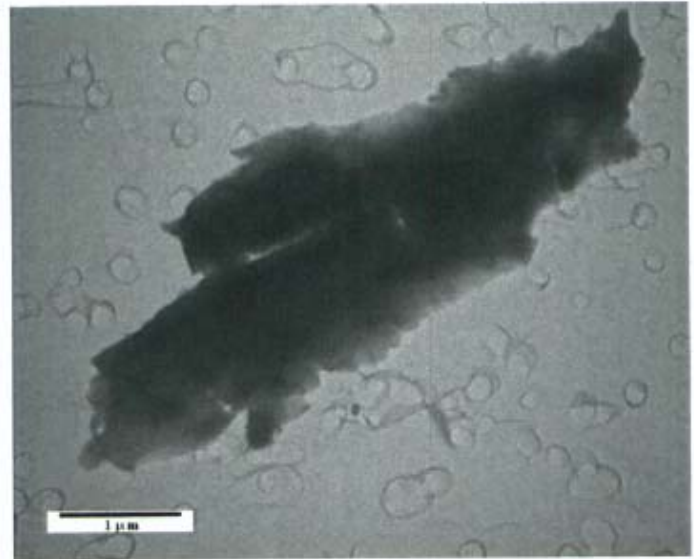
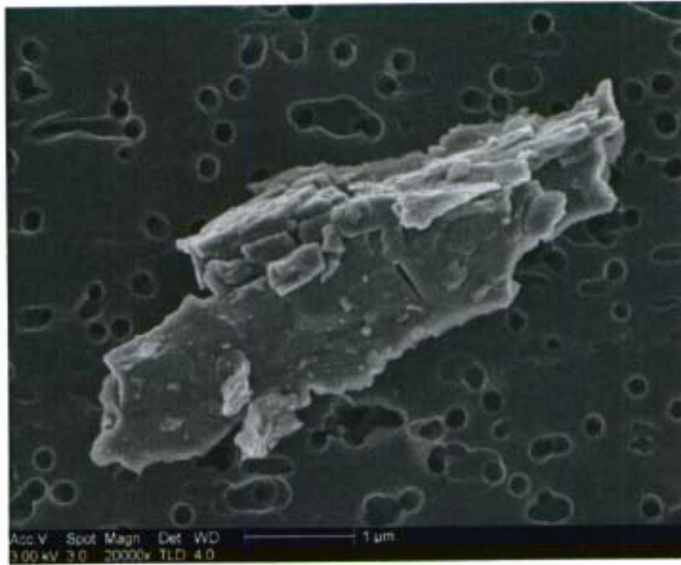
Zone 334 D1 6.6
 Phi 88.6 D2 1.71

RJLG # 3044328 Field 30, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator



RJLG # 3044328 Field 30, Fiber 1
NFB-SS04-100804-FG2 -- Elutriator

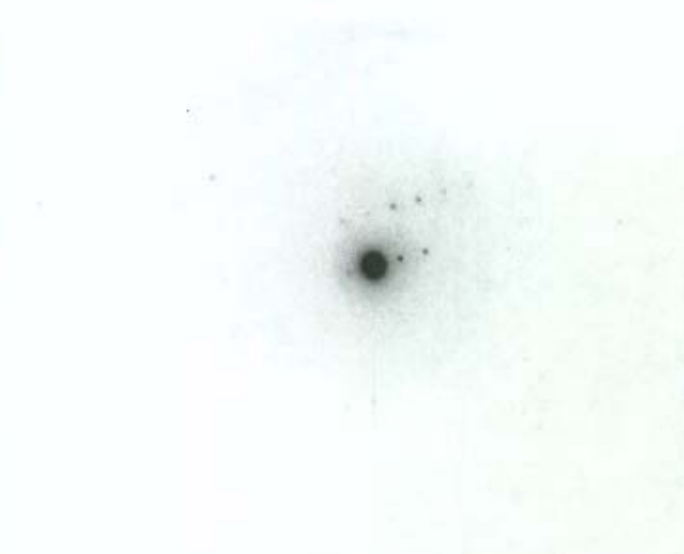
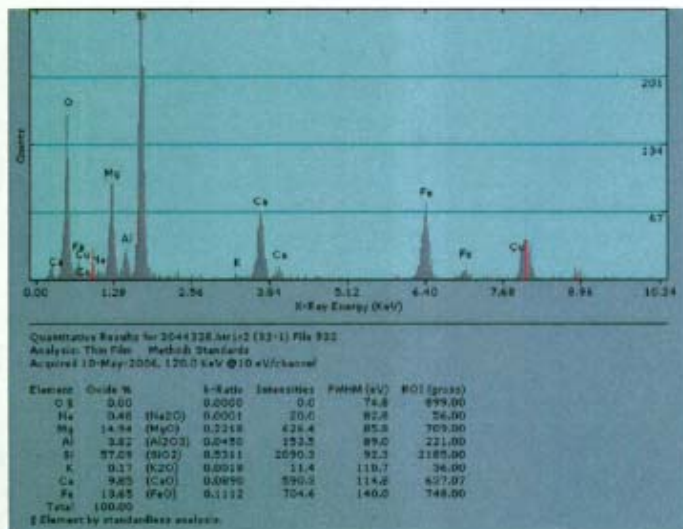
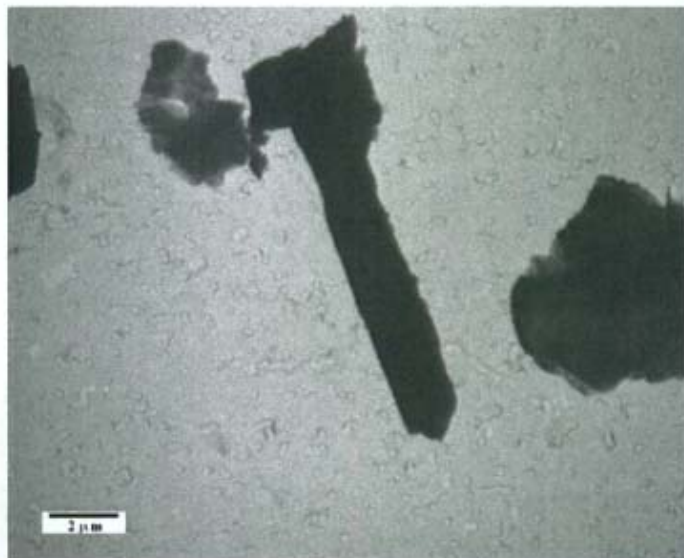
TEM and SEM Data



L = 7.5 W = 2.5 AR = 3:1
 Mineral category: Amphibole

Zone	320	D1	4.96
Phi	79.7	D2	1.97

RJLG # 3044328 Field 31, Fiber 1
 NFB-SS04-100804-FG2 -- Elutriator



L = 11.75 W = 2.2 AR = 5:1

Mineral category: Amphibole

Zone 311

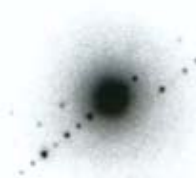
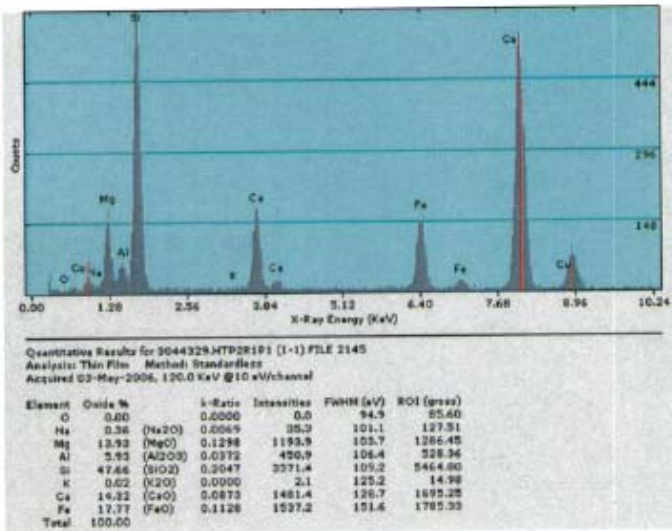
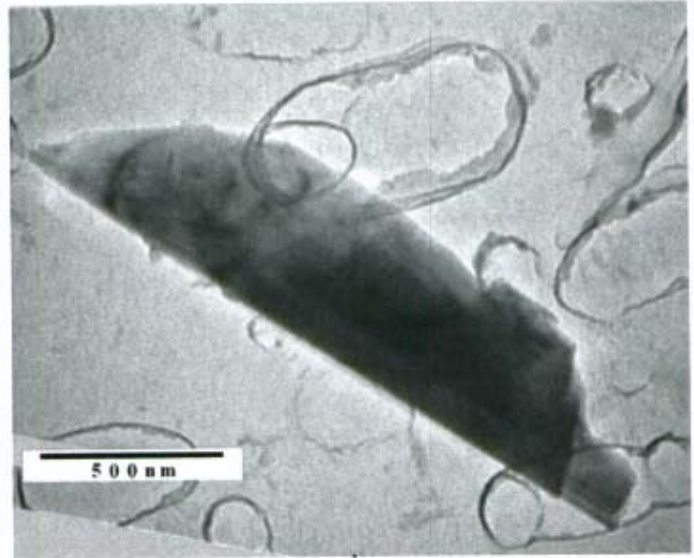
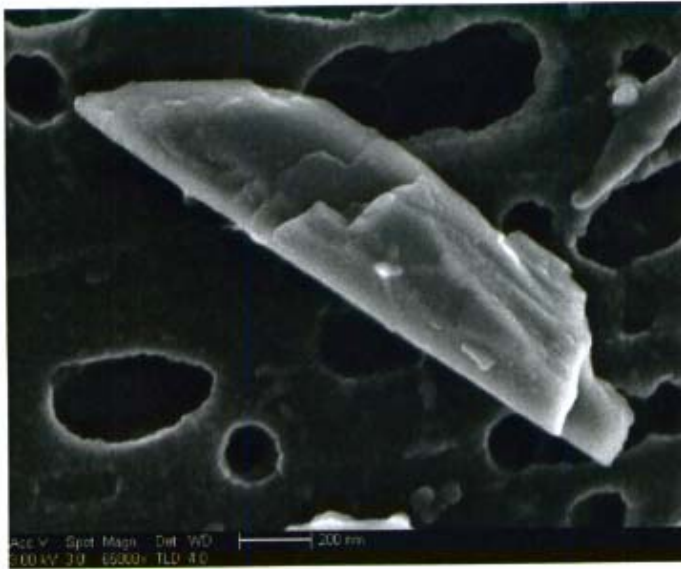
Phi 82

D1 5.23

D2 2.7

RJLG # 3044328 Field 32, Fiber 1
NFB-SS04-100804-FG2 -- Elutriator

TEM and SEM Data

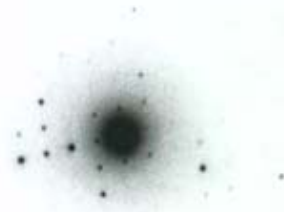
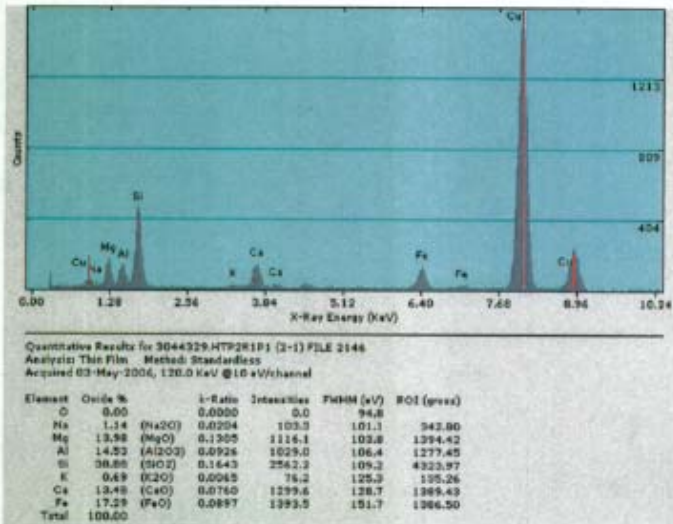
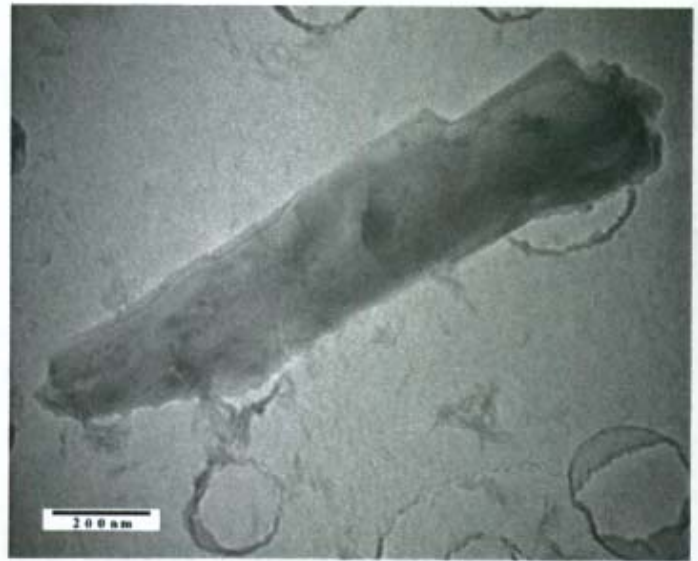


L = 2 W = .5 AR = 4:1

Mineral category: Amphibole

Zone	100	D1	9.23
Phi	89.3	D2	4.97

RJLG # 3044329 Field 1, Fiber 1
 NFB-S04-100804-FG2 -- Soil



L = 1.25 W = .2 AR = 6:1

Mineral category: Amphibole

Zone 310

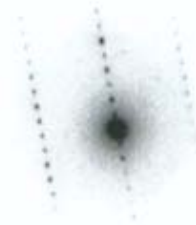
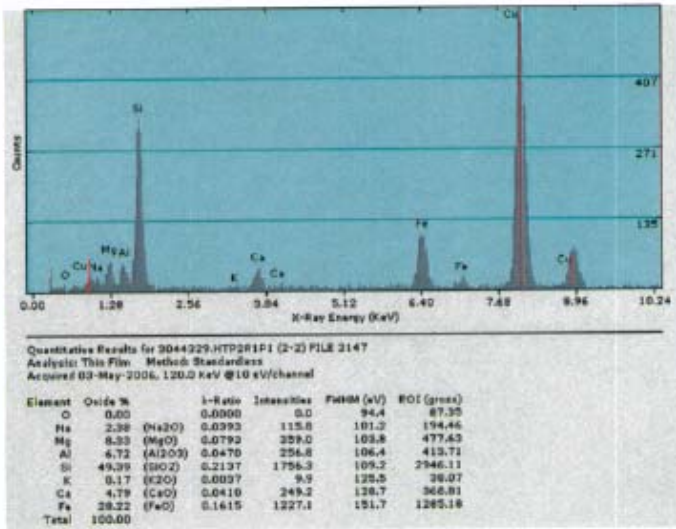
D1 5.19

Phi 82.4

D2 5.15

RJLG # 3044329 Field 2, Fiber 1
NFB-S04-100804-FG2 -- Soil

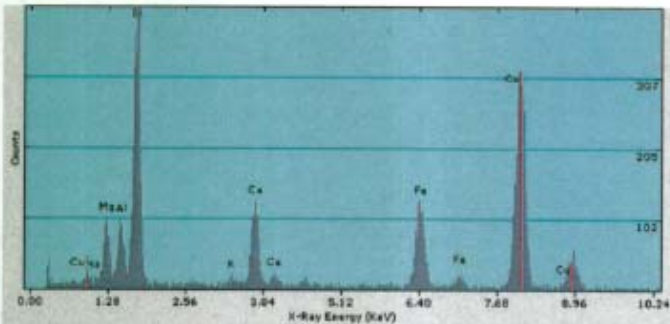
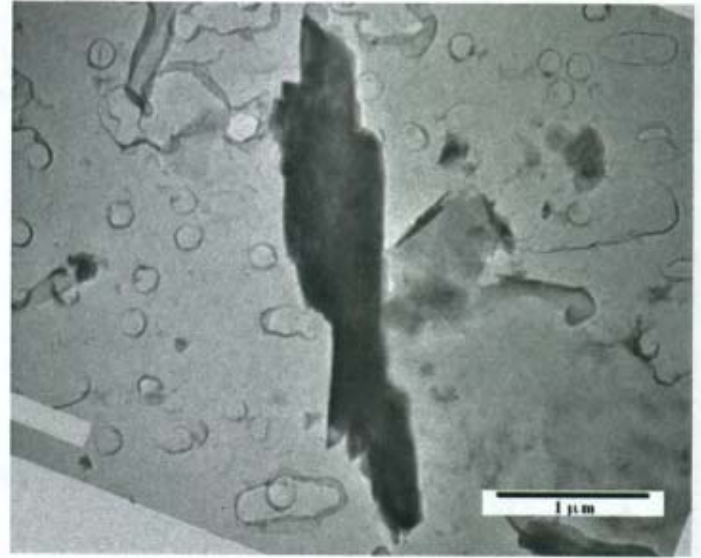
TEM and SEM Data



L = 1.75 W = .25 AR = 7:1
 Mineral category: Amphibole

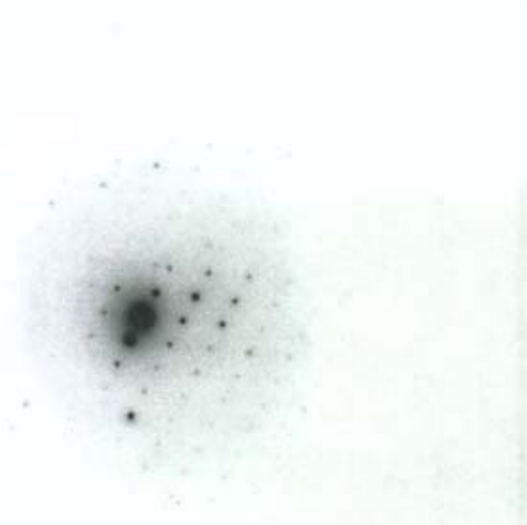
Zone 301 D1 9.4
 Phi 84.3 D2 1.83

RJLG # 3044329 Field 2, Fiber 2
 NFB-S04-100804-FG2 -- Soil



Quantitative Results for 3044329.HTR2R1D1 (3-1) FILE 2148
 Analysis: Thin Film - Methan Standardless
 Acquired 03-May-2006, 120.0 KeV @10 eU/channel

Element	Oxide %	I-Ratio	Intensity	PhiRH (μV)	ROI (gross)
O	0.00	0.0000	0.0	54.7	
Na	0.19 (Na2O)	0.0087	13.5	101.1	113.52
Mg	11.42 (MgO)	0.1050	719.0	103.7	786.92
Al	12.76 (Al2O3)	0.0917	712.8	106.4	813.96
Si	42.50 (SiO2)	0.1780	2208.2	109.2	3590.52
S	0.34 (S2O)	0.0059	20.9	125.3	89.24
Ca	13.62 (CaO)	0.0625	990.4	128.7	1228.33
Fe	19.84 (FeO)	0.1217	1262.5	131.6	1485.29
Total	100.00				



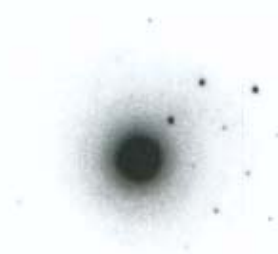
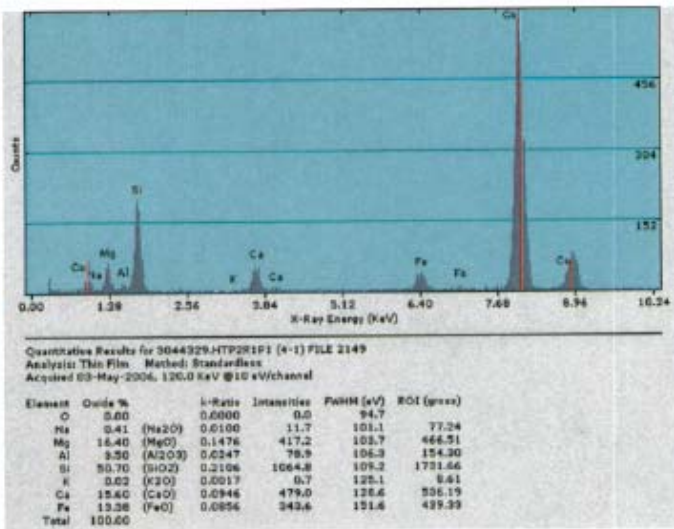
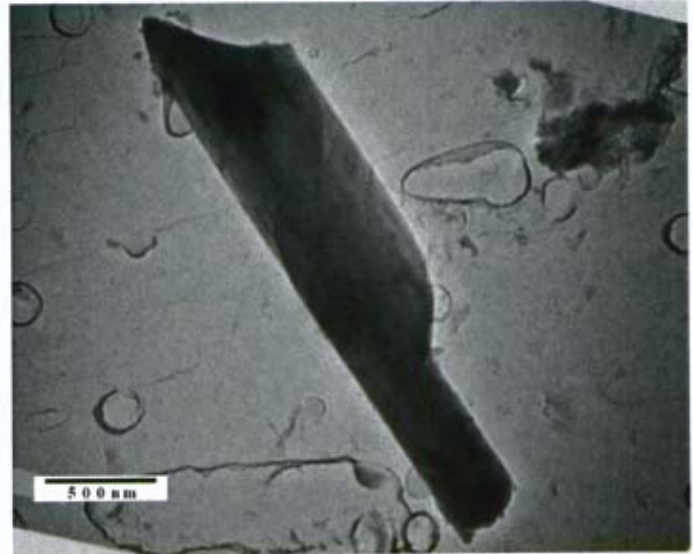
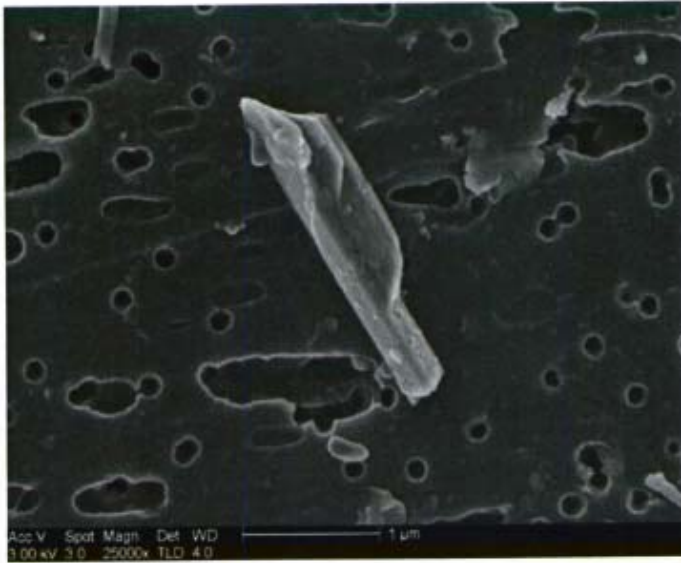
L = 2.9 W = .5 AR = 6:1

Mineral category: Amphibole

Zone	541	D1	5.06
Phi	66.9	D2	3.46

RJLG # 3044329 Field 3, Fiber 1
 NFB-S04-100804-FG2 -- Soil

TEM and SEM Data

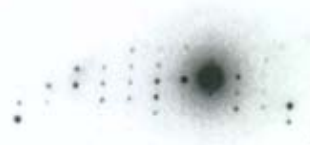
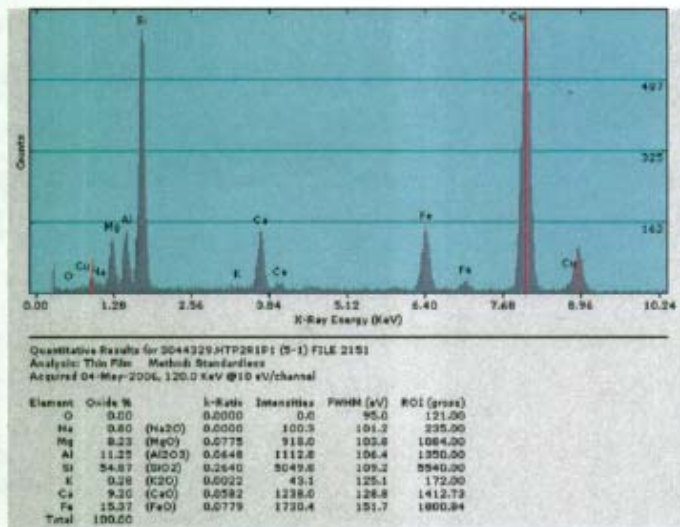
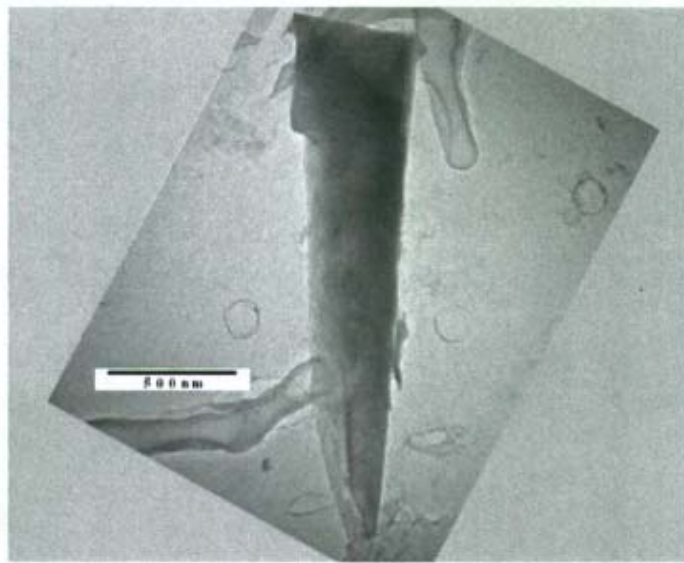


L = 2.5 W = .45 AR = 6:1

Mineral category: Amphibole

Zone 525 D1 2.8
Phi 67.4 D2 2.7

RJLG # 3044329 Field 4, Fiber 1
NFB-S04-100804-FG2 -- Soil



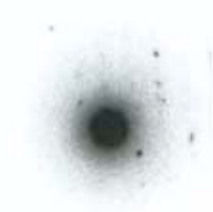
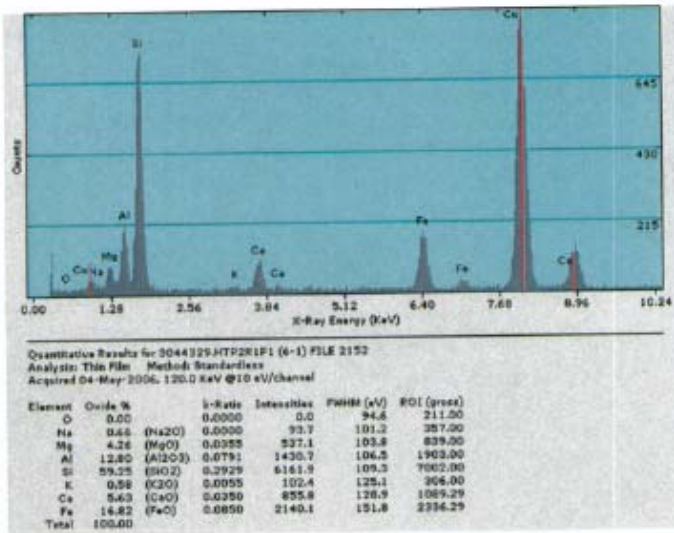
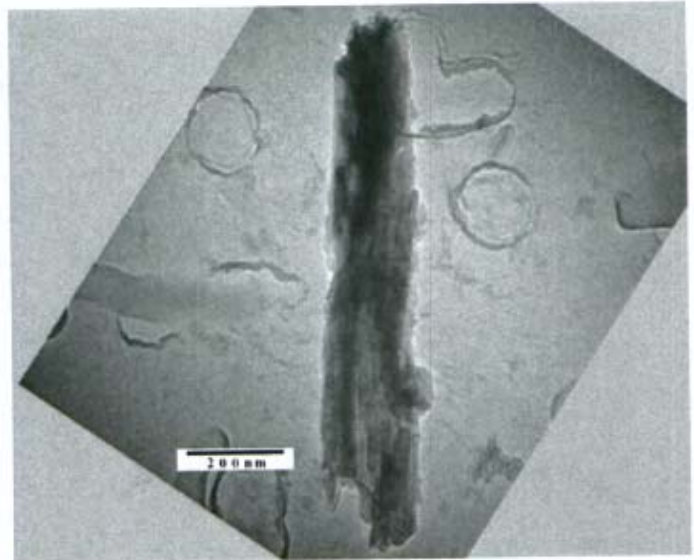
L = 2.3 W = .4 AR = 6:1

Mineral category: Amphibole

Zone	112	D1	8.48
Phi	84.7	D2	4.95

RJLG # 3044329 Field 5, Fiber 1
 NFB-S04-100804-FG2 -- Soil

TEM and SEM Data

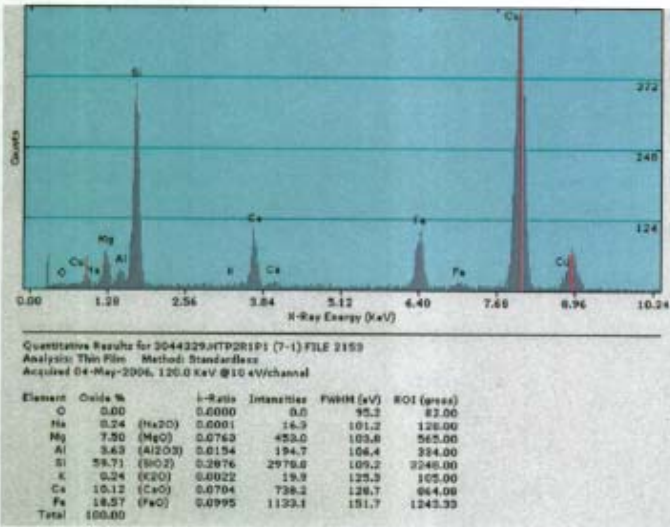
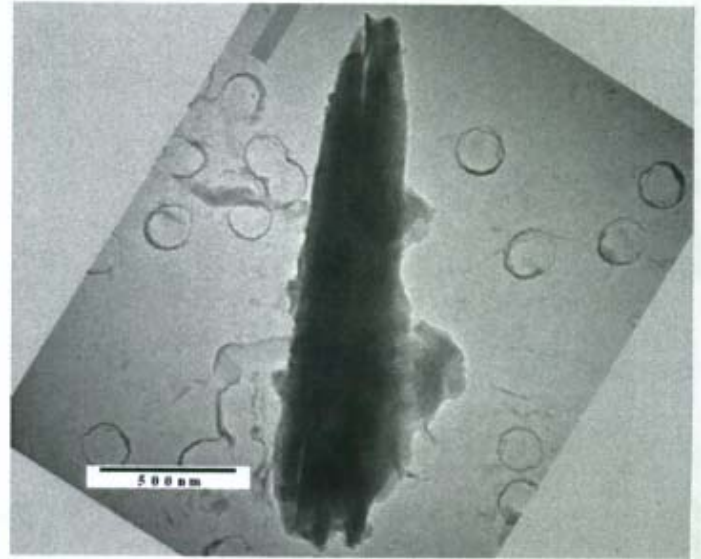
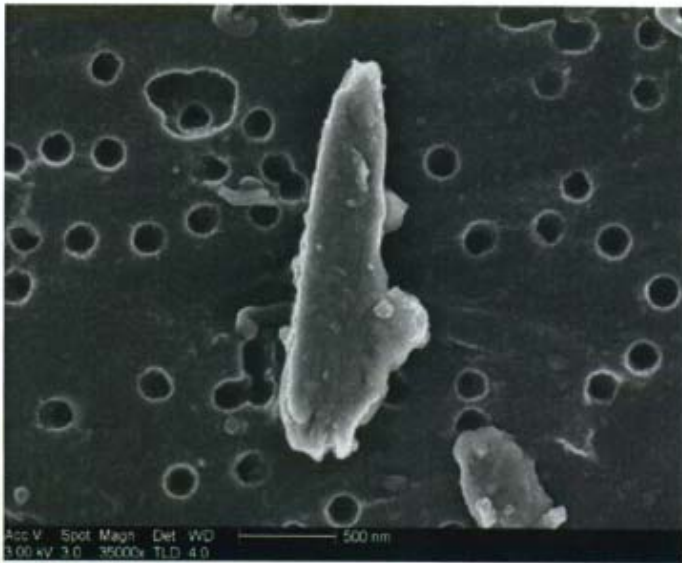


L = 1.1 W = .15 AR = 7:1

Mineral category: Amphibole

Zone	112	D1	8.6
Phi	84.5	D2	4.89

RJLG # 3044329 Field 6, Fiber 1
 NFB-S04-100804-FG2 -- Soil

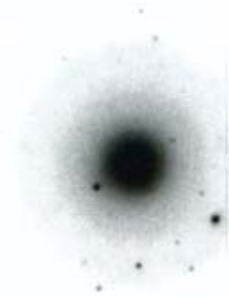
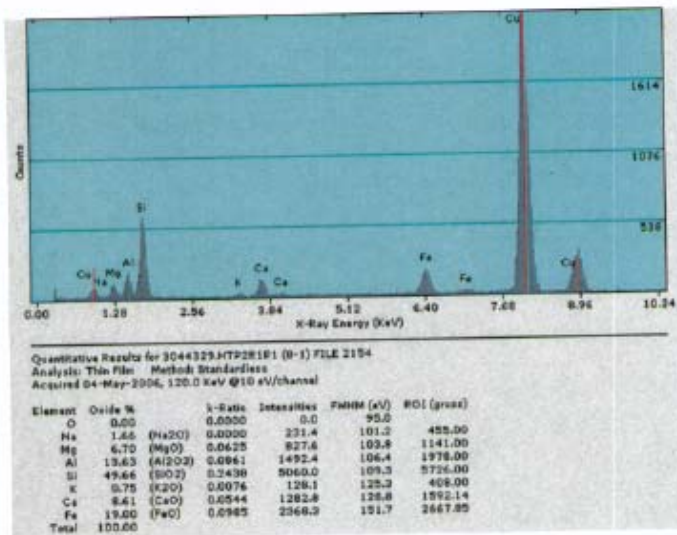
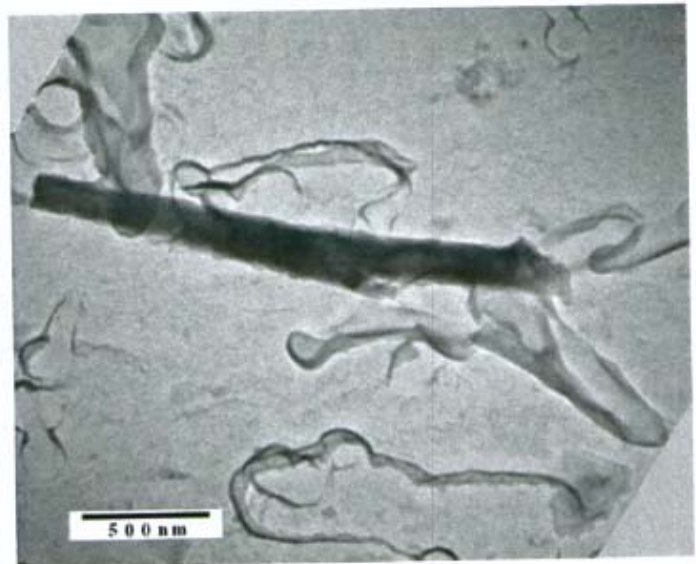


L = 2 W = .3 AR = 7:1

Mineral category: Amphibole

Zone	101	D1	9.12
Phi	75.1	D2	4.93

RJLG # 3044329 Field 7, Fiber 1
 NFB-S04-100804-FG2 -- Soil



$L = 1.85$ $W = .15$ $AR = 12:1$

Mineral category: Amphibole

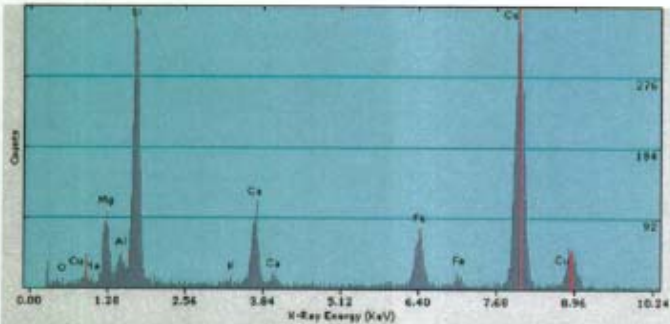
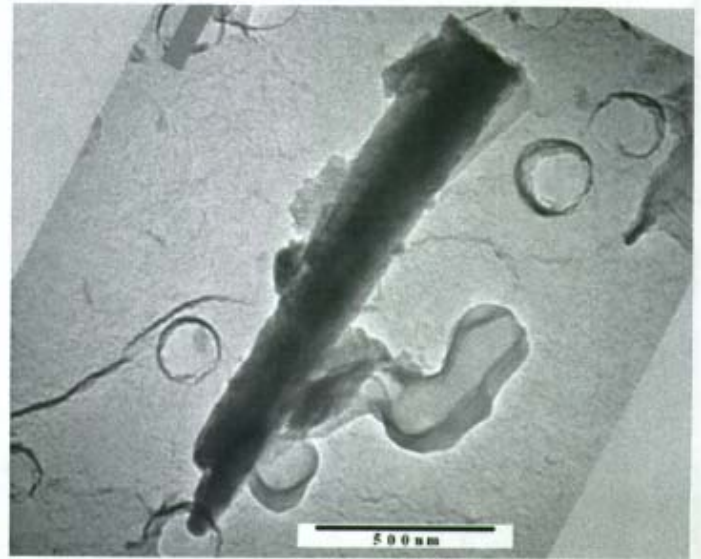
Zone 213

Phi 89.3

D1 4.91

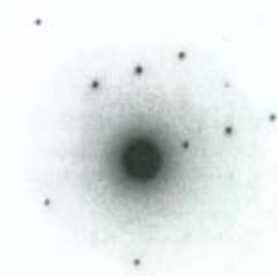
D2 3.29

RJLG # 3044329 Field 8, Fiber 1
 NFB-S04-100804-FG2 -- Soil



Quantitative Results for 9044329.NFB28191 (9-1) FILE 2155
 Analysis: Thin Film Method Standardless
 Acquired 04-May-2006 120.0 KeV @10 x/UmChannel

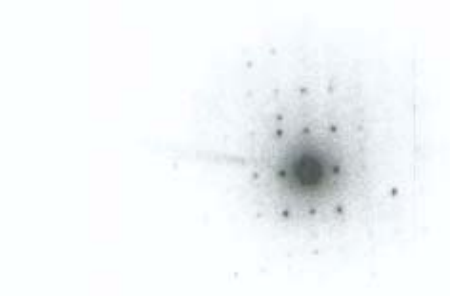
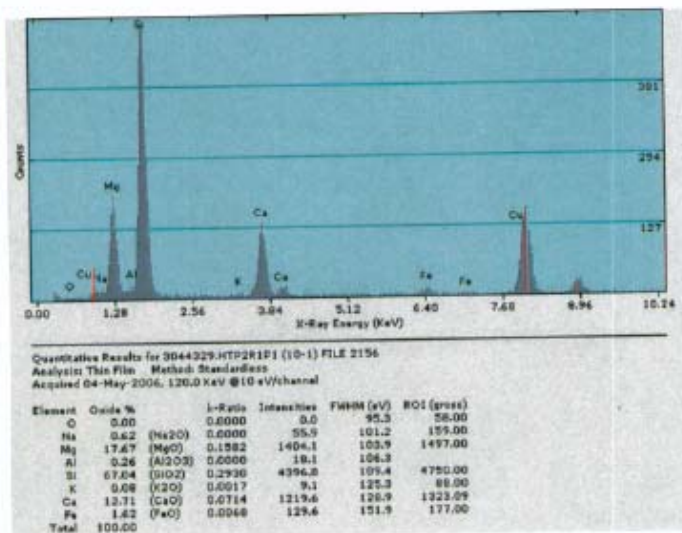
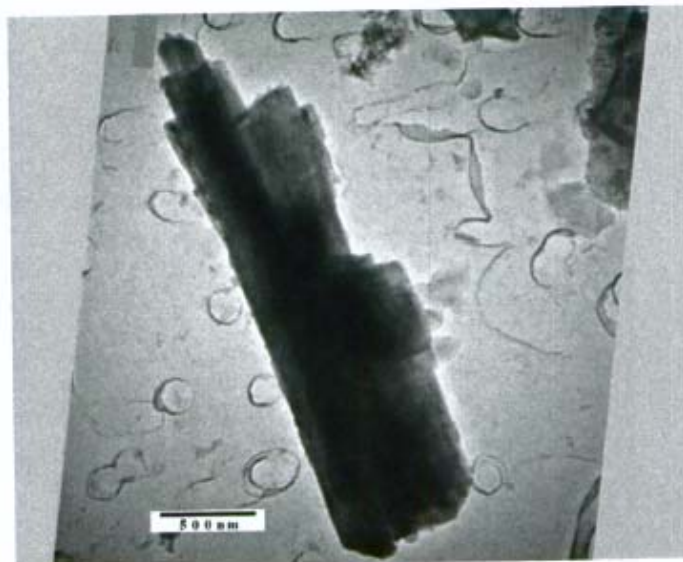
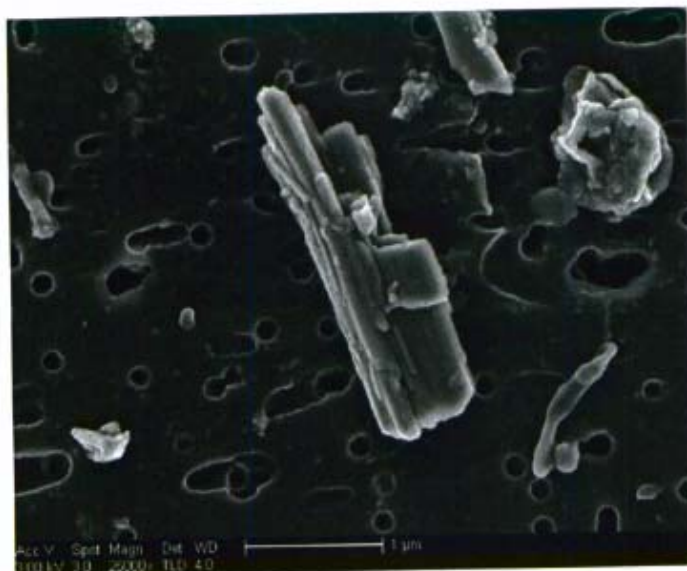
Element	Oxide %	W-Ratio	Intensity	FWHM (eV)	ROI (gross)
O	0.00	0.0000	0.0	94.4	82.00
Na	0.00 (Na2O)	0.0001	0.2	101.2	110.00
Mg	10.85 (MgO)	0.1079	706.2	103.8	847.00
Al	4.88 (Al2O3)	0.0162	270.5	106.5	450.00
Si	83.28 (SiO2)	0.2795	3185.8	109.3	3477.00
K	0.46 (K2O)	0.0042	41.3	124.9	115.00
Ca	10.95 (CaO)	0.0699	860.9	128.8	970.57
Fe	13.78 (FeO)	0.0697	906.2	151.7	942.95
Total	100.00				



L = 1.5 W = .15 AR = 10:1
 Mineral category: Amphibole

Zone 32-2 D1 3.05
 Phi 75.1 D2 2.96

RJLG # 3044329 Field 9, Fiber 1
 NFB-S04-100804-FG2 -- Soil

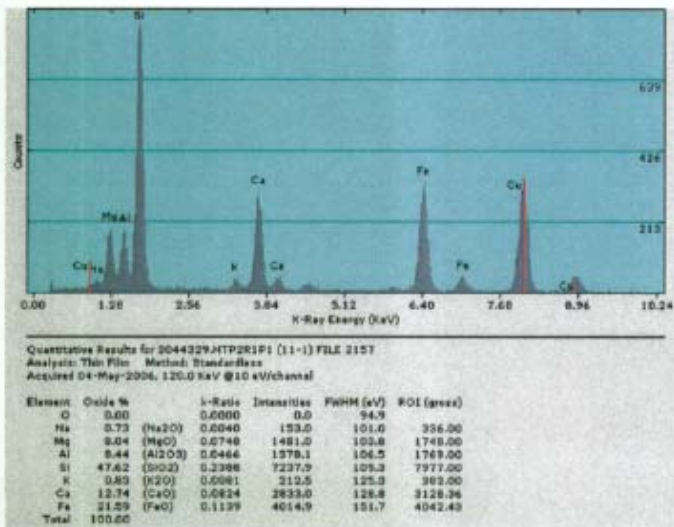
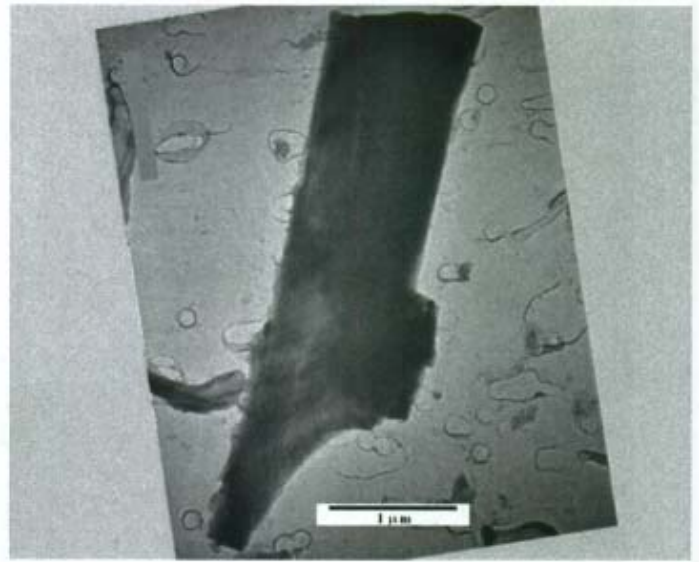


L = 2.75 W = .7 AR = 4:1

Mineral category: Amphibole

Zone	213	D1	4.95
Phi	88.8	D2	3.41

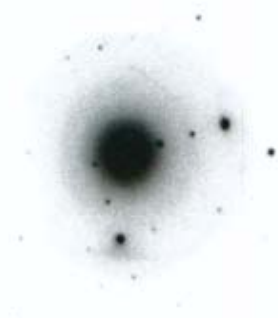
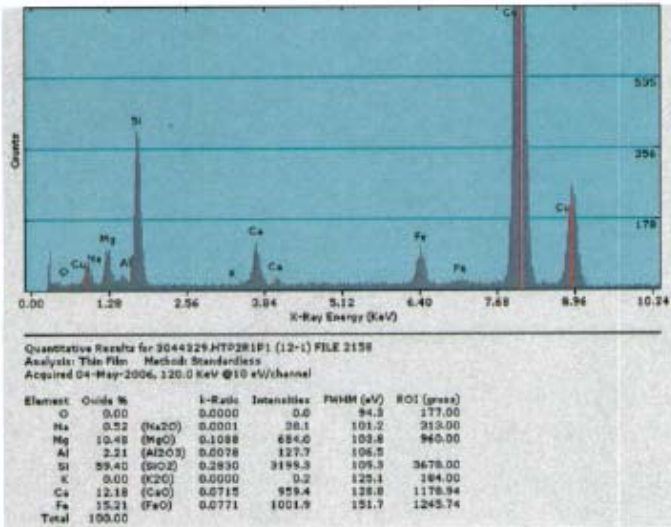
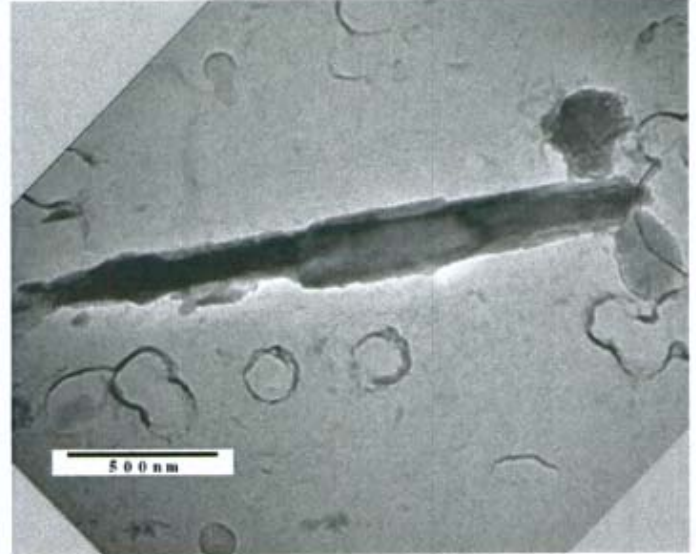
RJLG # 3044329 Field 10, Fiber 1
 NFB-S04-100804-FG2 -- Soil



L = 5 W = 1.25 AR = 4:1
 Mineral category: Amphibole

Zone 213 D1 5.03
 Phi 88.9 D2 3.36

RJLG # 3044329 Field 11, Fiber 1
 NFB-S04-100804-FG2 -- Soil



L = 1.75 W = .15 AR = 12:1

Mineral category: Pyroxene

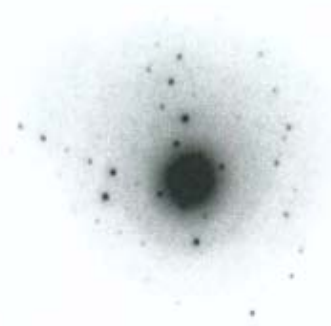
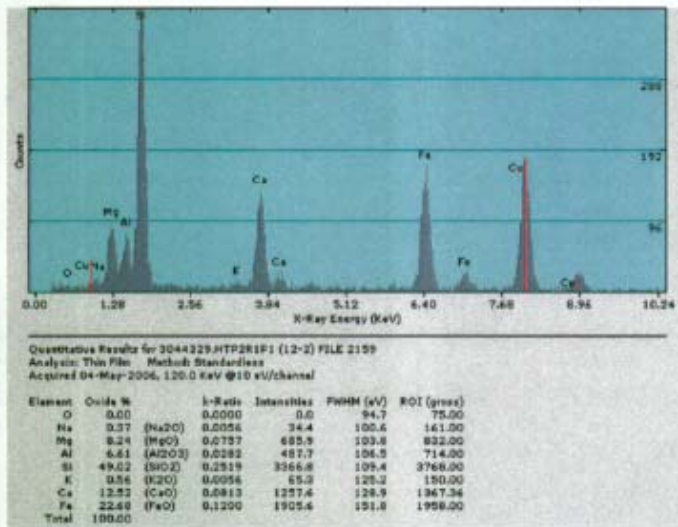
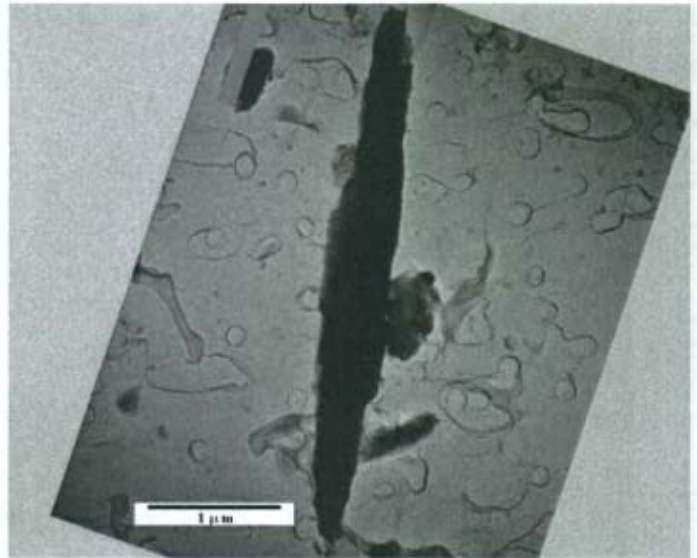
Zone 21-3

D1 3.88

Phi 86.5

D2 3.41

RJLG # 3044329 Field 12, Fiber 1
NFB-S04-100804-FG2 -- Soil



L = 4.3 W = .3 AR = 14:1

Mineral category: Amphibole

Zone 310

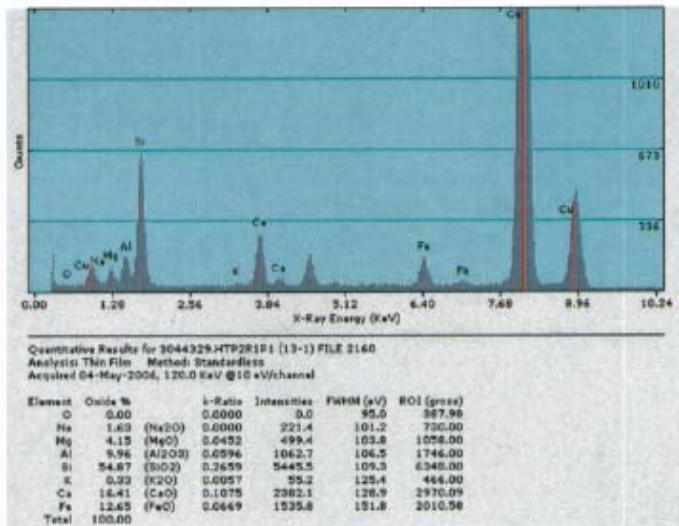
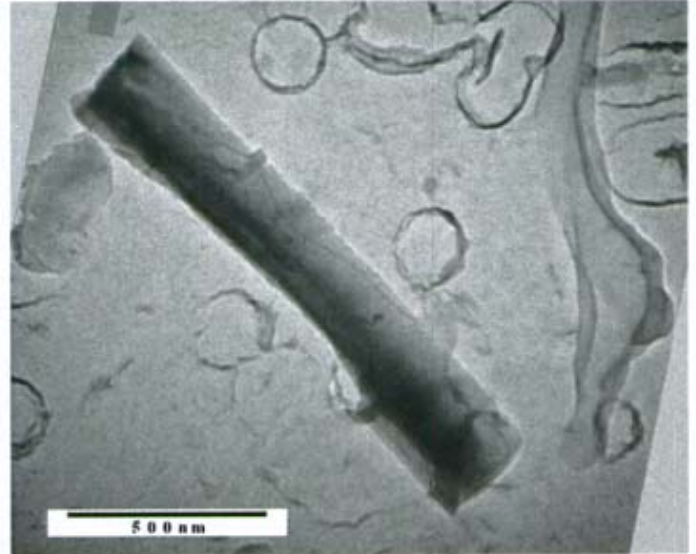
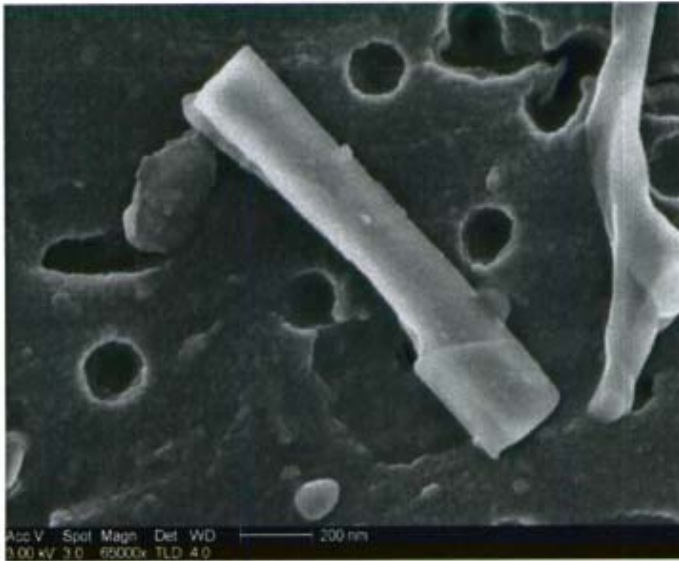
D1 5.25

Phi 83.9

D2 5.23

RJLG # 3044329 Field 12, Fiber 2
 NFB-S04-100804-FG2 -- Soil

TEM and SEM Data

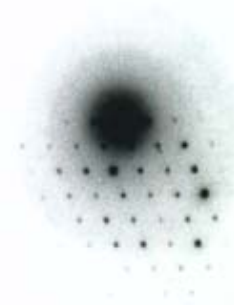
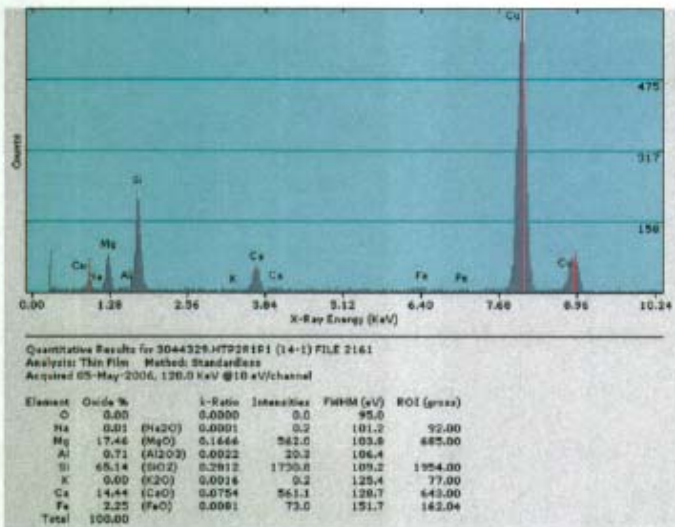
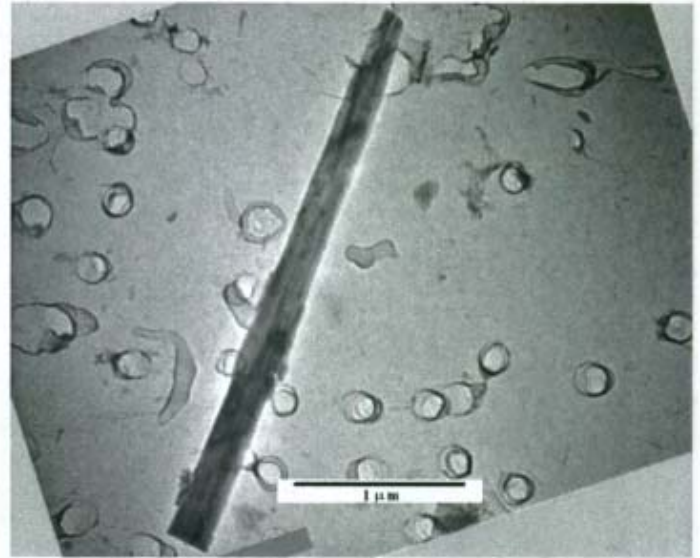


L = 1.3 W = .15 AR = 9:1

Mineral category: Amphibole

Zone	201	D1	9.13
Phi	83.1	D2	2.64

RJLG # 3044329 Field 13, Fiber 1
 NFB-S04-100804-FG2 -- Soil



L = 2.75 W = .2 AR = 14:1

Mineral category: Amphibole

Zone 312

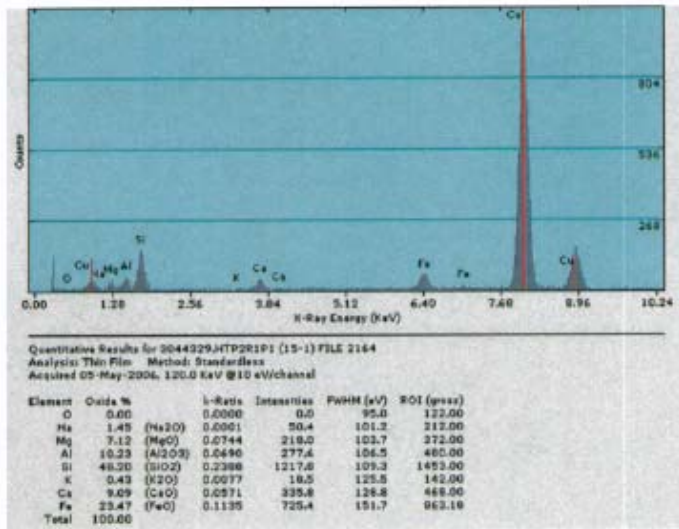
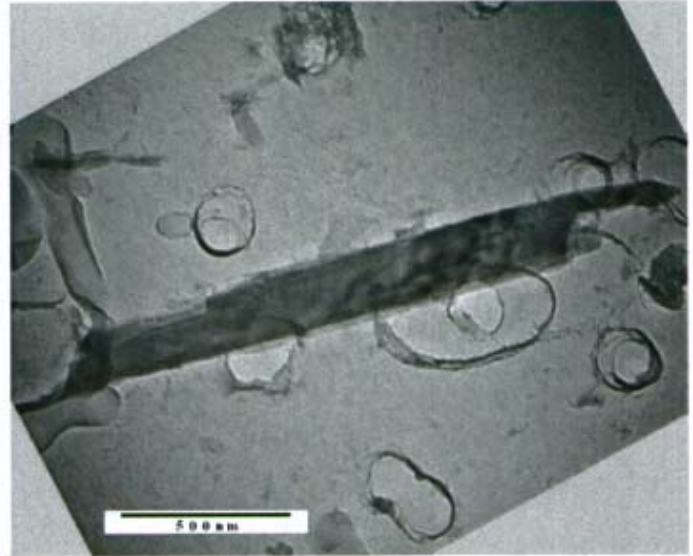
D1 5.18

Phi 67.5

D2 4.96

RJLG # 3044329 Field 14, Fiber 1
 NFB-S04-100804-FG2 -- Soil

TEM and SEM Data

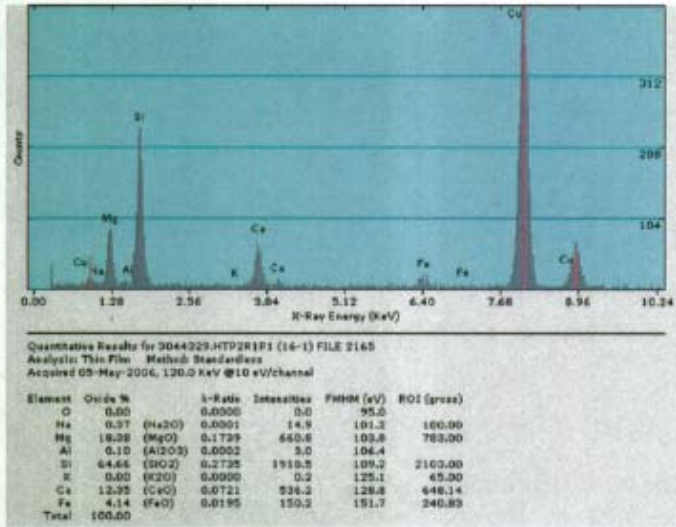
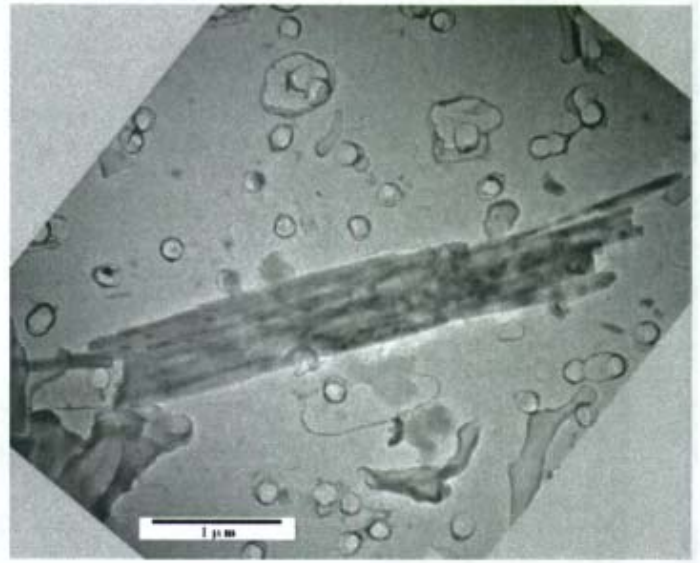
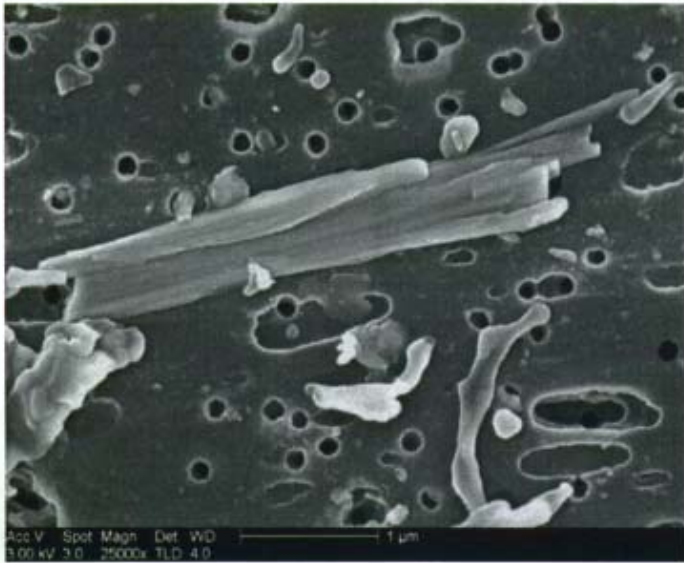


L = 2.6 W = .15 AR = 17:1

Mineral category: Amphibole

Zone	310	D1	5.22
Phi	82.4	D2	5.2

RJLG # 3044329 Field 15, Fiber 1
NFB-S04-100804-FG2 -- Soil

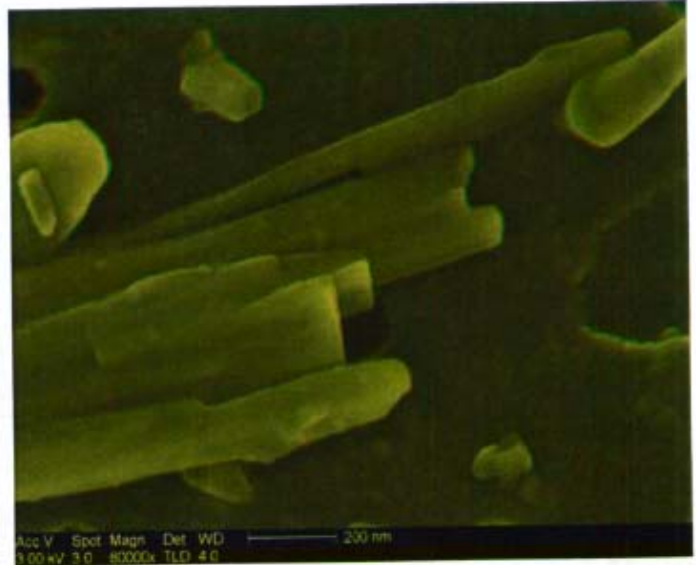
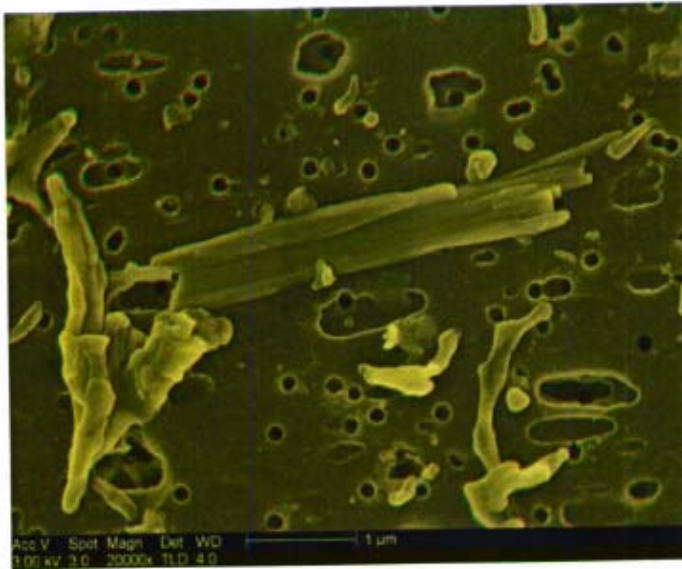


L = 2.6 W = .5 AR = 5:1
 Mineral category: Unknown

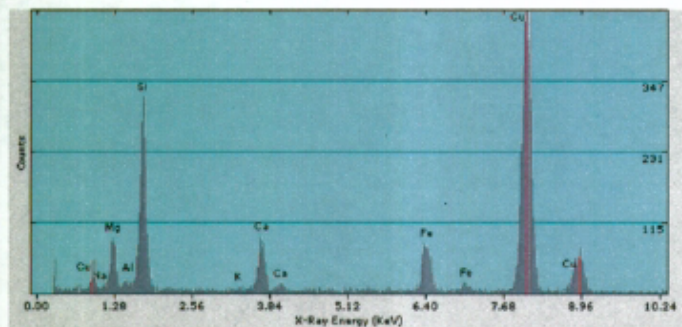
Zone 014 D1 4.92
 Phi 80.7 D2 3.49

RJLG # 3044329 Field 16, Fiber 1
 NFB-S04-100804-FG2 -- Soil

TEM and SEM Data



RJLG # 3044329 Field 16, Fiber 1
NFB-S04-100804-FG2 -- Soil



Quantitative Results for 3044329.HTP2R1P1 (17-1) FILE 2166
 Analysis: This File Method: Standardless
 Acquired: 05-May-2006, 120.0 KeV @10 eV/channel

Element	Oxide %	W-Ratio	Intensity	FWHM (eV)	ROI (gross)
O	0.00	0.0000	0.0	95.0	
Na	0.10 (Na2O)	0.0001	6.3	101.2	103.00
Mg	11.62 (MgO)	0.1174	422.7	103.6	754.00
Al	1.58 (Al2O3)	0.0047	94.2	106.4	220.00
Si	56.74 (SiO2)	0.2695	2509.1	109.3	2777.00
K	0.20 (K2O)	0.0023	15.0	125.5	92.00
Ca	11.29 (CaO)	0.0734	749.7	128.0	965.95
Fe	17.75 (FeO)	0.0888	560.2	151.7	1054.65
Total	100.00				



L = 2 W = .25 AR = 8:1

Mineral category: Amphibole

Zone 510

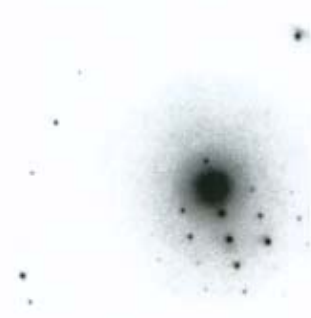
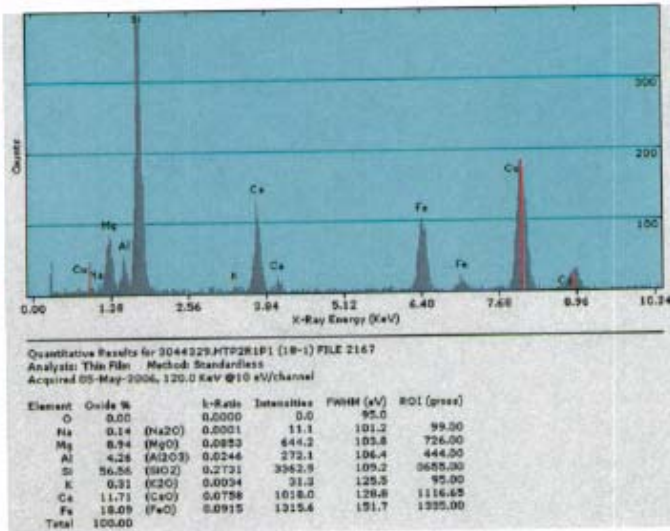
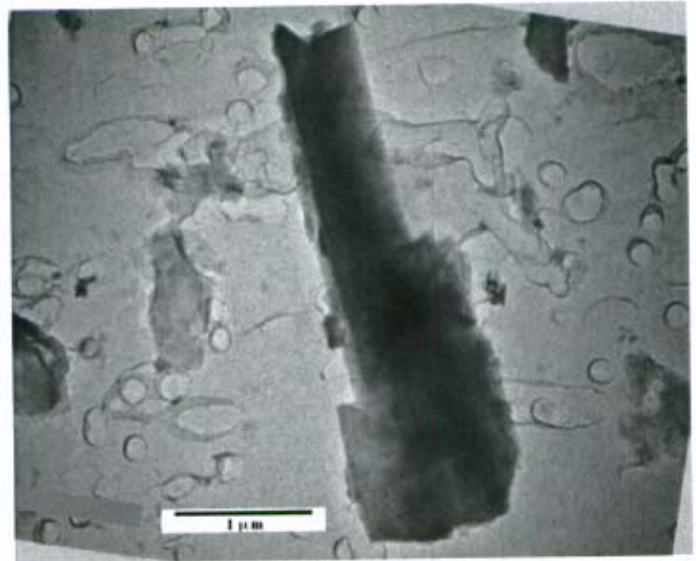
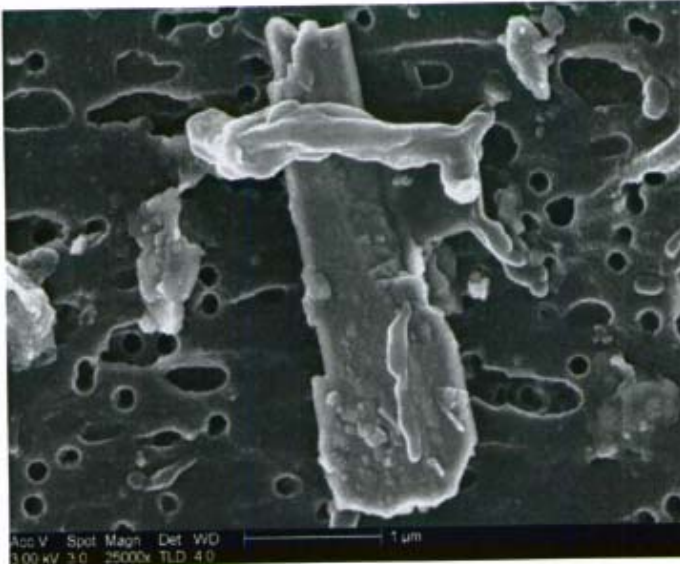
D1 5.13

Phi 83.4

D2 3.44

RJLG # 3044329 Field 17, Fiber 1
 NFB-S04-100804-FG2 -- Soil

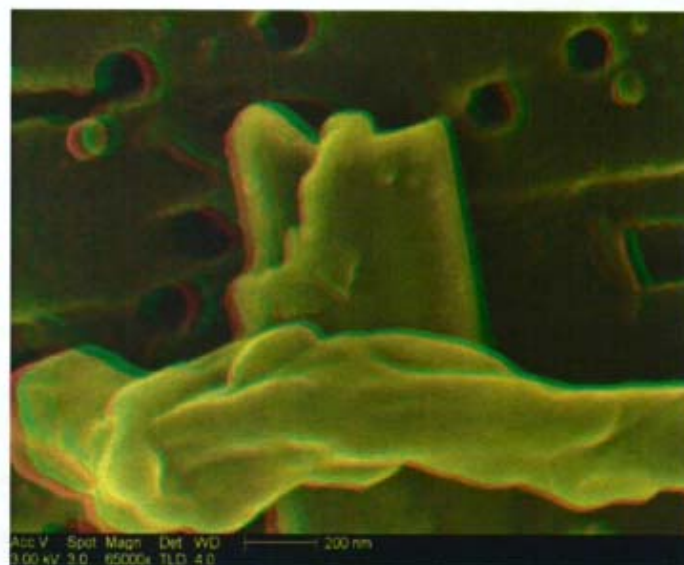
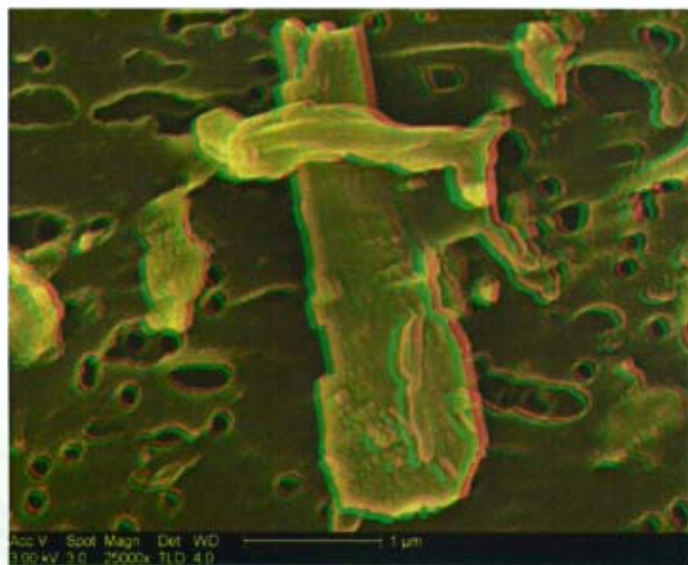
TEM and SEM Data



L = 3.2 W = .6 AR = 5:1
 Mineral category: Amphibole

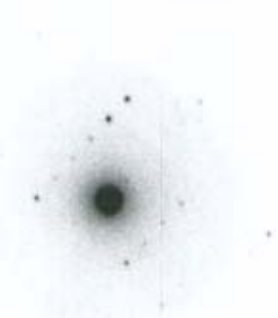
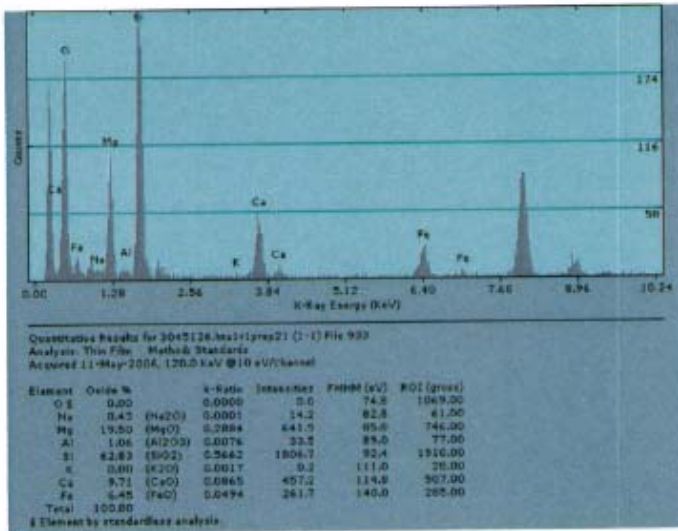
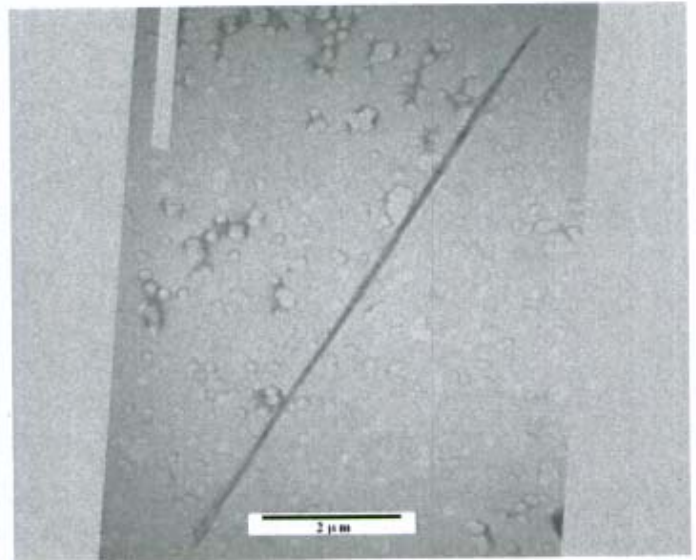
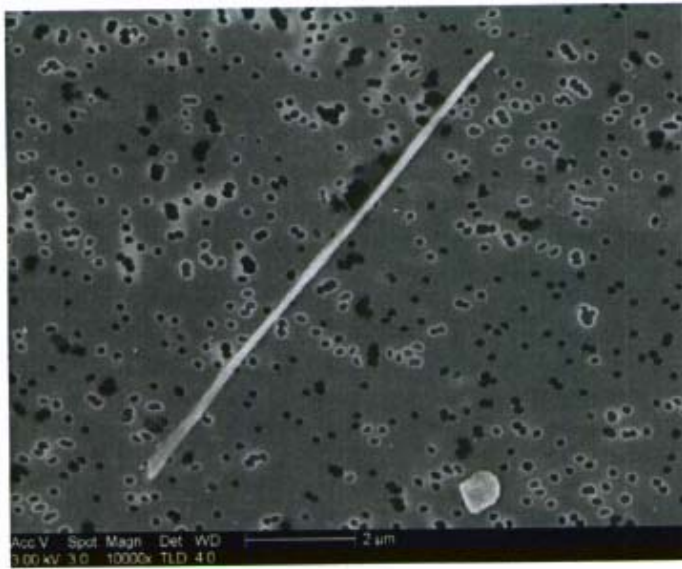
Zone 514 D1 5.02
 Phi 69.1 D2 3.41

RJLG # 3044329 Field 18, Fiber 1
 NFB-S04-100804-FG2 -- Soil



RJLG # 3044329 Field 18, Fiber 1
NFB-S04-100804-FG2 -- Soil

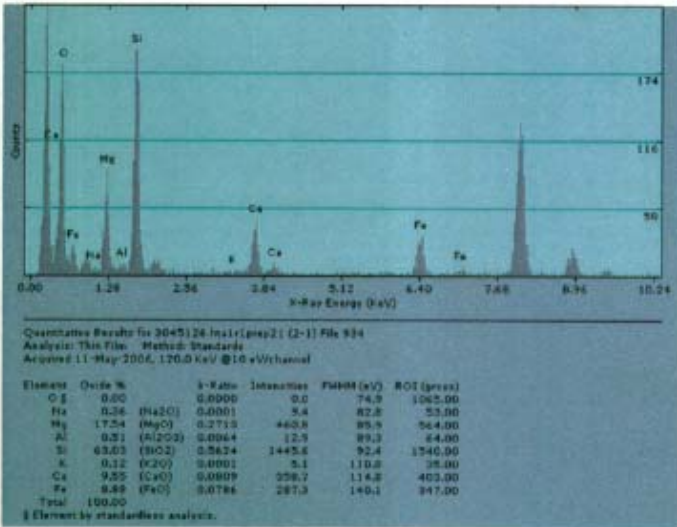
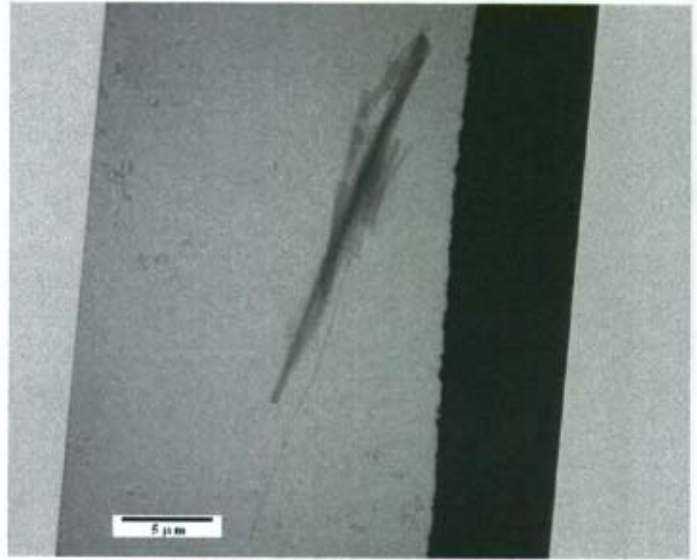
TEM and SEM Data



L = 11.75 W = .15 AR = 78:1
 Mineral category: Amphibole

Zone 311 D1 5.21
 Phi 85 D2 2.49

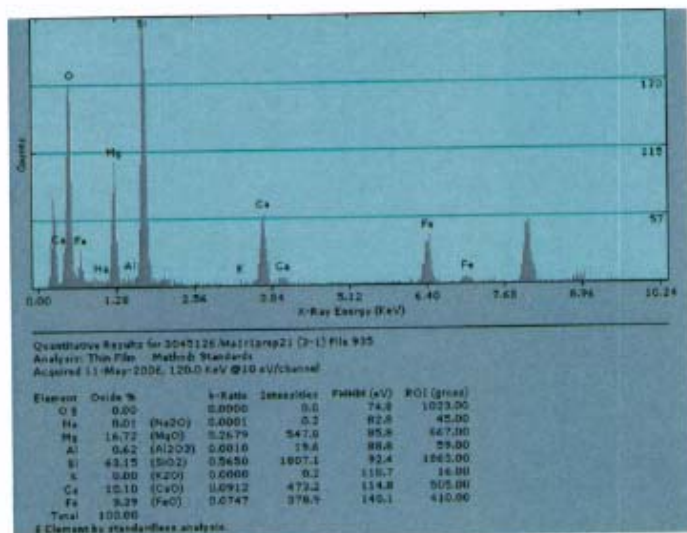
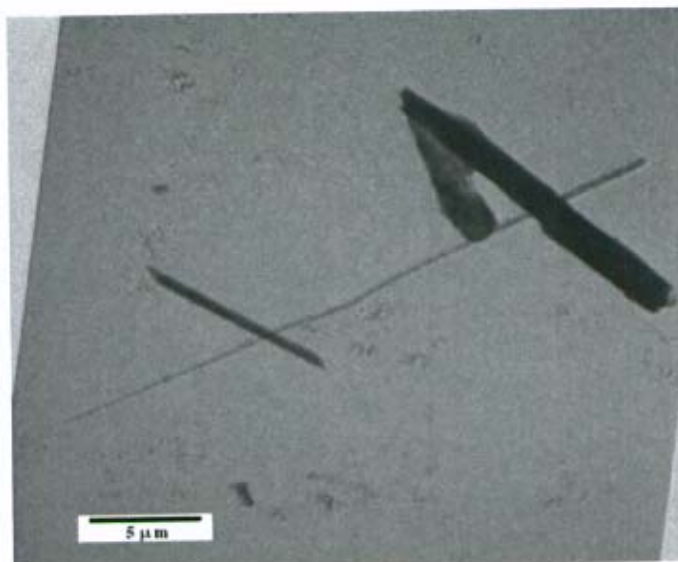
RJLG # 3045126 Field 1, Fiber 1
 Rock Outcrop next to Building Air Conditioner -- 1021 Harvard Way



L = 21 W = .1 AR = 210:1
 Mineral category: Amphibole

Zone 100 D1 9.2
 Phi 89.3 D2 5.18

RJLG # 3045126 Field 2, Fiber 1
 Rock Outcrop next to Building Air Conditioner -- 1021 Harvard Way



L = 26.75 W = .3 AR = 89:1

Mineral category: Amphibole

Zone 310

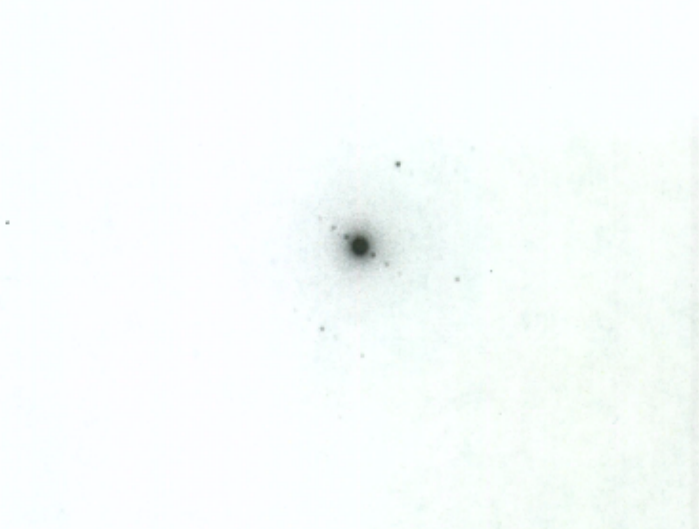
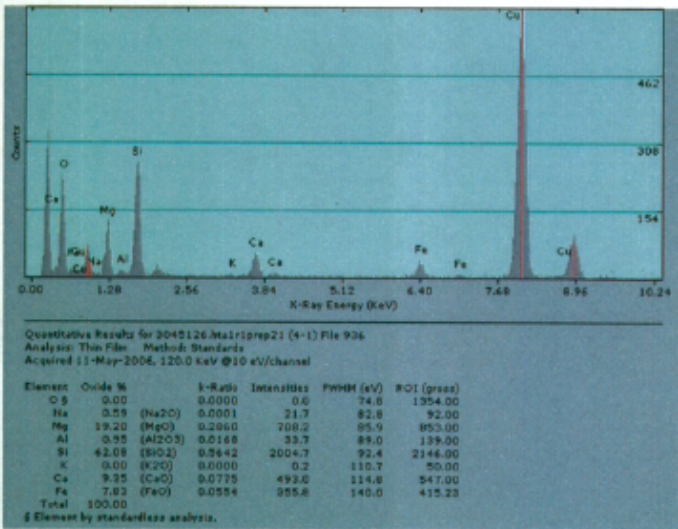
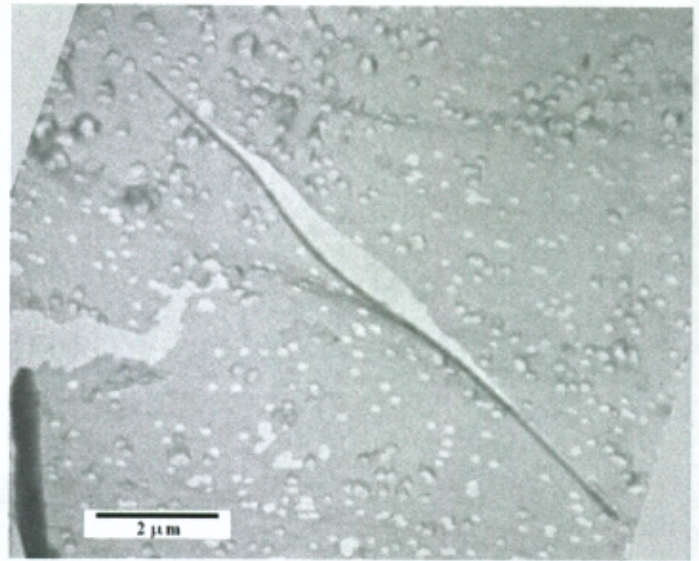
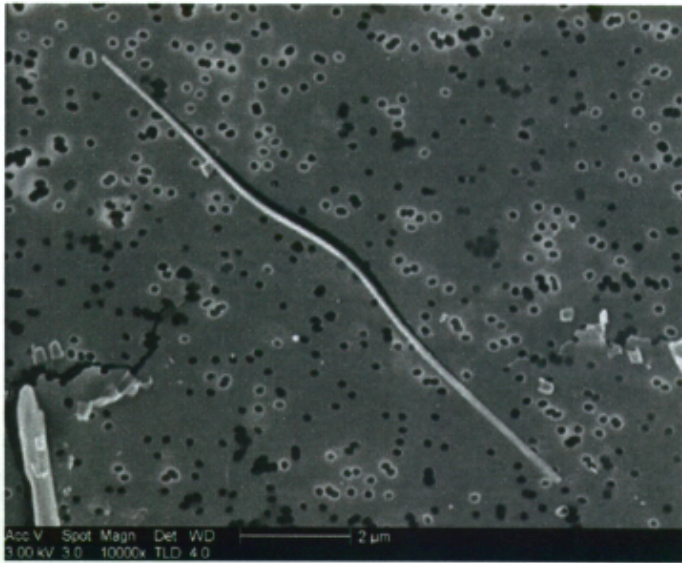
D1 5.21

Phi 81.5

D2 5.18

RJLG # 3045126 Field 3, Fiber 1
 Rock Outcrop next to Building Air Conditioner -- 1021 Harvard Way

TEM and SEM Data



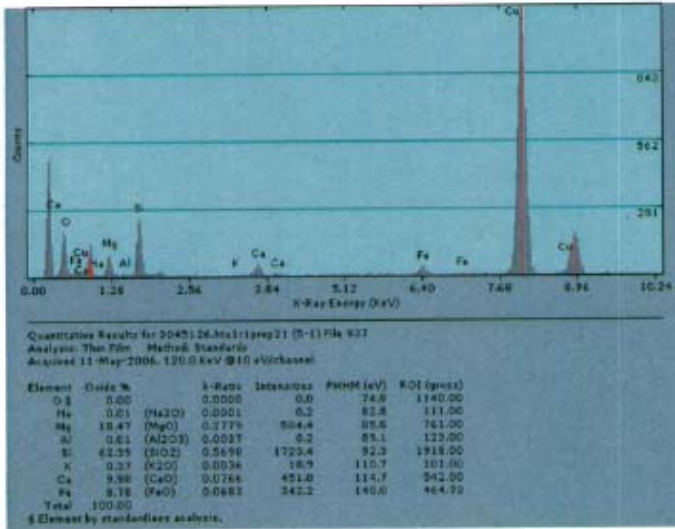
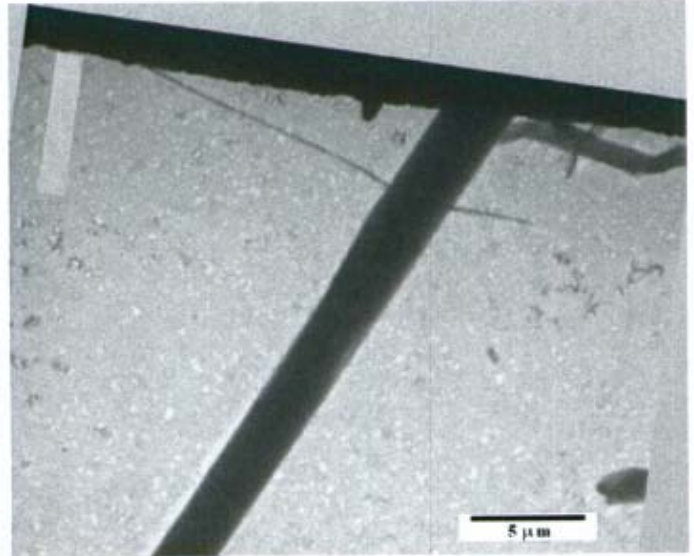
L = 13.5 W = .1 AR = 135:1

Mineral category: Amphibole

Zone	112	D1	8.61
Phi	84.2	D2	4.89

RJLG # 3045126 Field 4, Fiber 1
 Rock Outcrop next to Building Air Conditioner -- 1021 Harvard Way

TEM and SEM Data



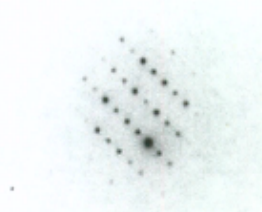
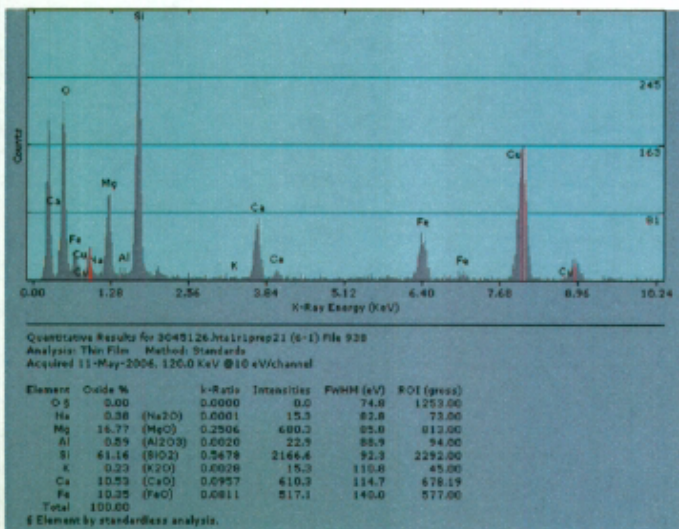
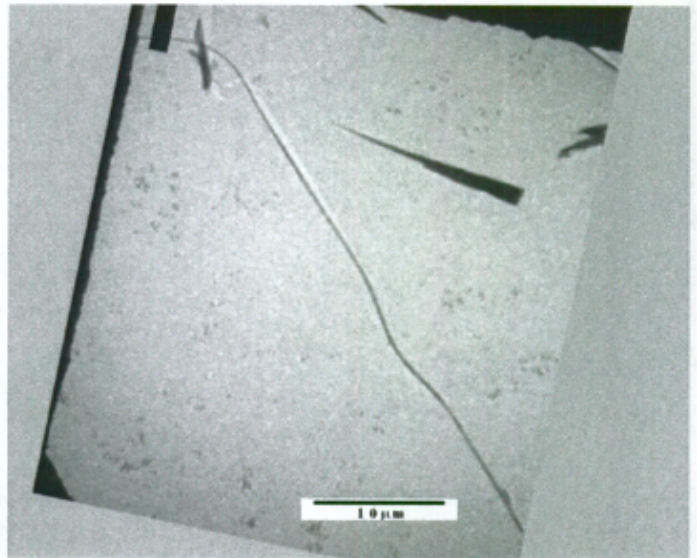
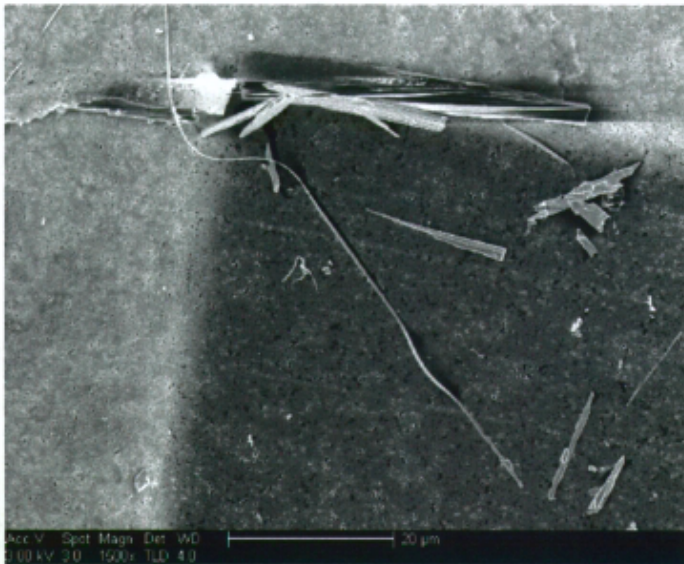
L = 19.25 W = .2 AR = 96:1

Mineral category: Amphibole

Zone	100	D1	9.28
Phi	89.1	D2	5.21

RJLG # 3045126 Field 5, Fiber 1
 Rock Outcrop next to Building Air Conditioner -- 1021 Harvard Way

TEM and SEM Data



L = 19.25 W = .2 AR = 96:1

Mineral category: Amphibole

Zone 100

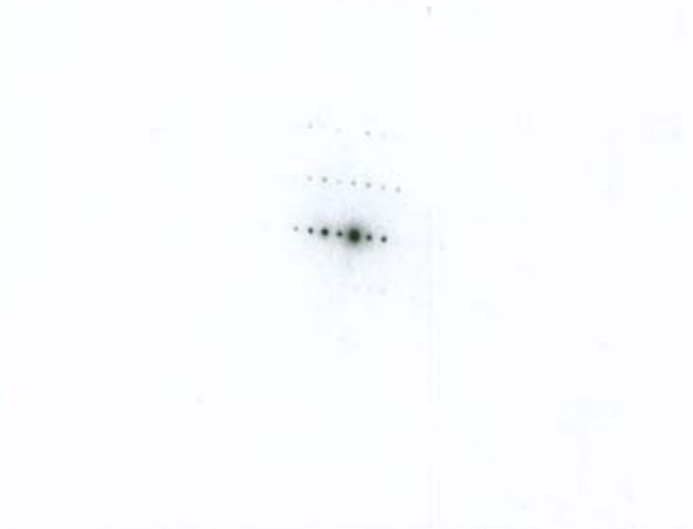
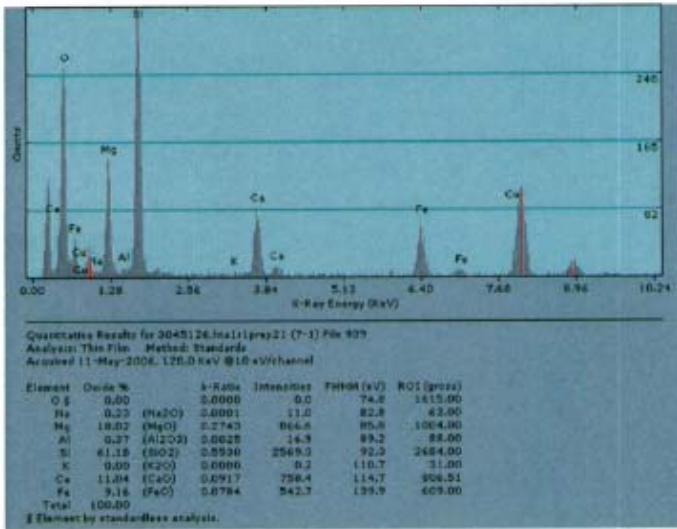
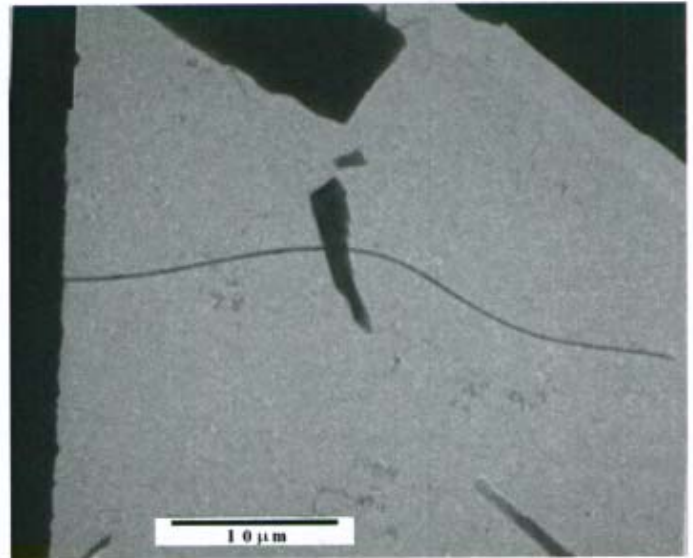
D1 9.23

Phi 88.9

D2 5.14

RJLG # 3045126 Field 6, Fiber 1
 Rock Outcrop next to Building Air Conditioner -- 1021 Harvard Way

TEM and SEM Data



L = 139.25 W = .4 AR = 348:1

Mineral category: Amphibole

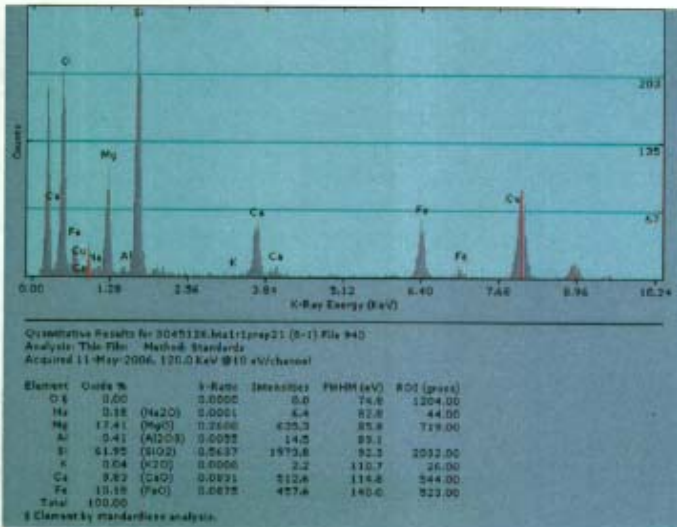
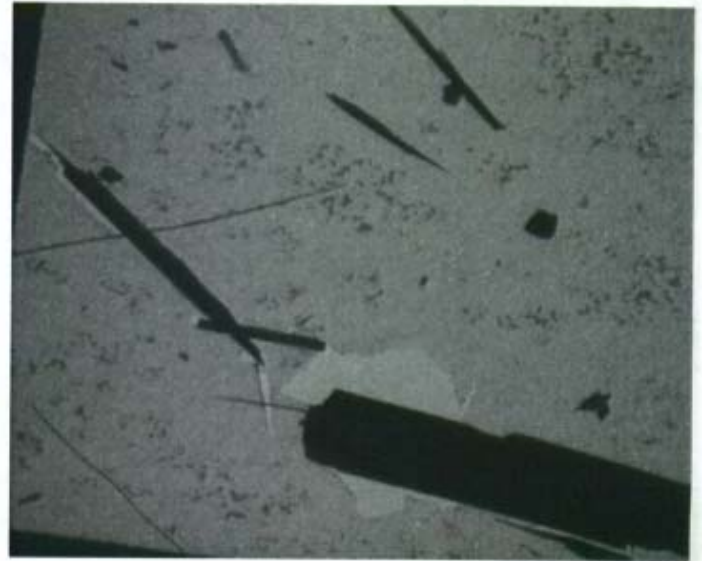
Zone 201

D1 9.2

Phi 82.6

D2 2.69

RJLG # 3045126 Field 7, Fiber 1
 Rock Outcrop next to Building Air Conditioner -- 1021 Harvard Way



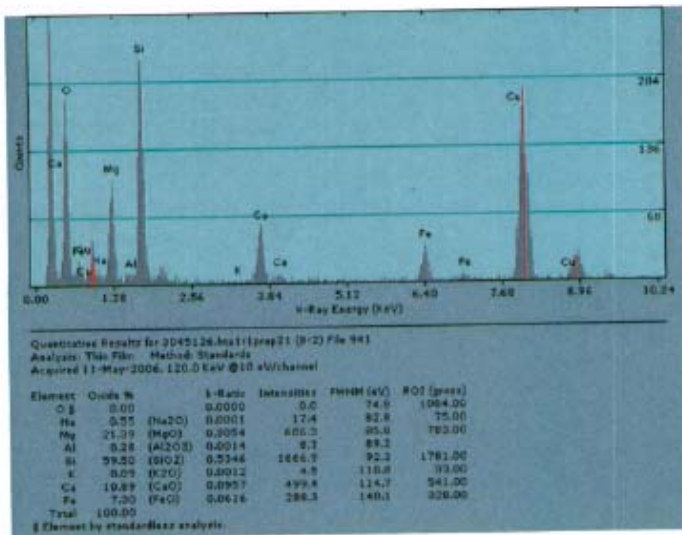
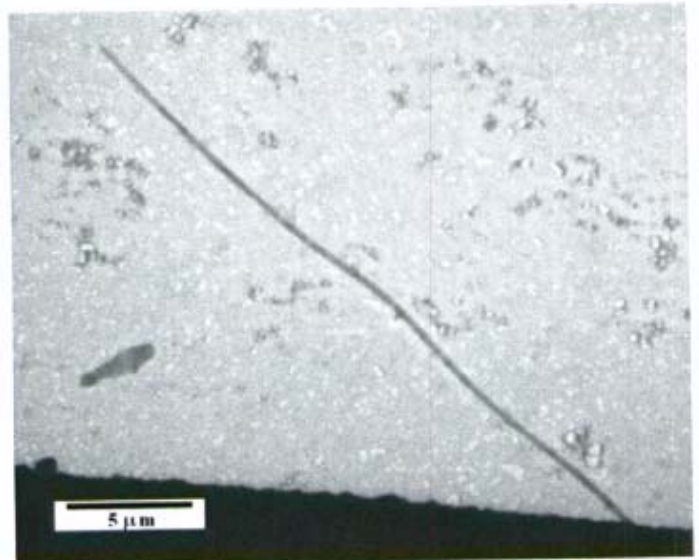
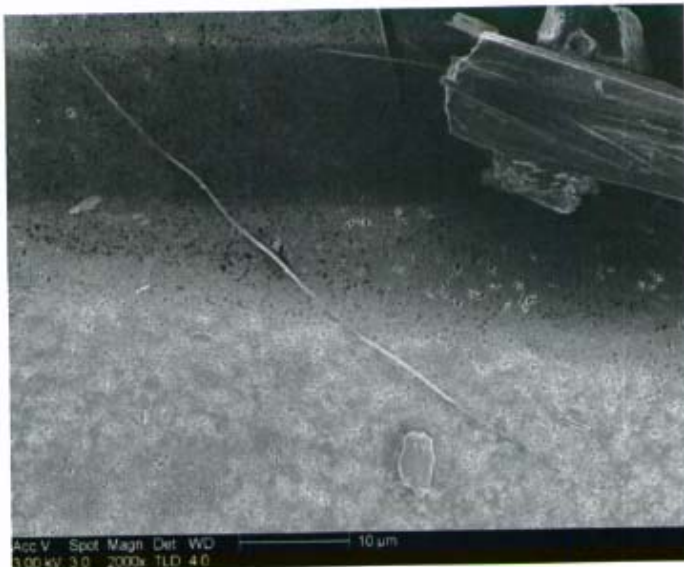
L = 41.25 W = .45 AR = 92:1

Mineral category: Amphibole

Zone	201	D1	9.18
Phi	81.2	D2	2.64

RJLG # 3045126 Field 8, Fiber 1
 Rock Outcrop next to Building Air Conditioner -- 1021 Harvard Way

TEM and SEM Data



L = 17.25 W = .25 AR = 69:1

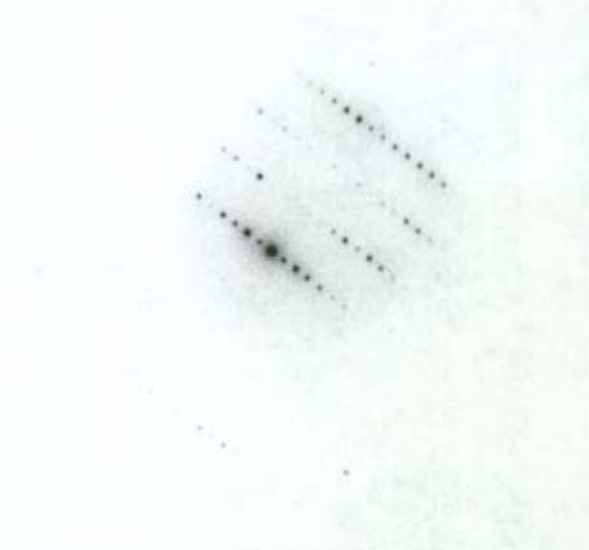
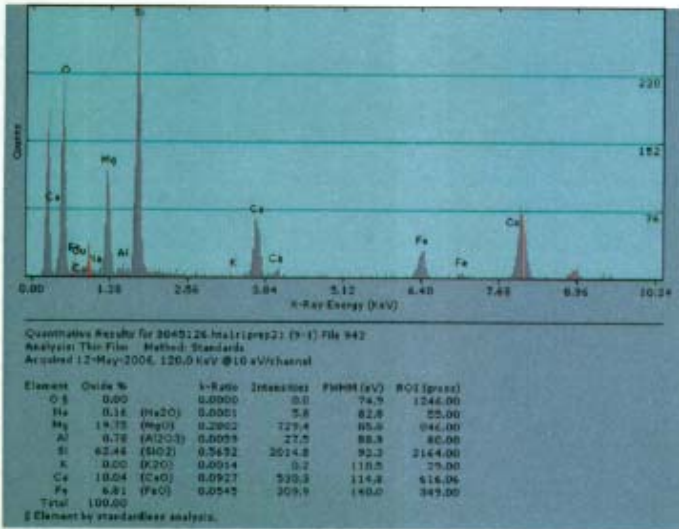
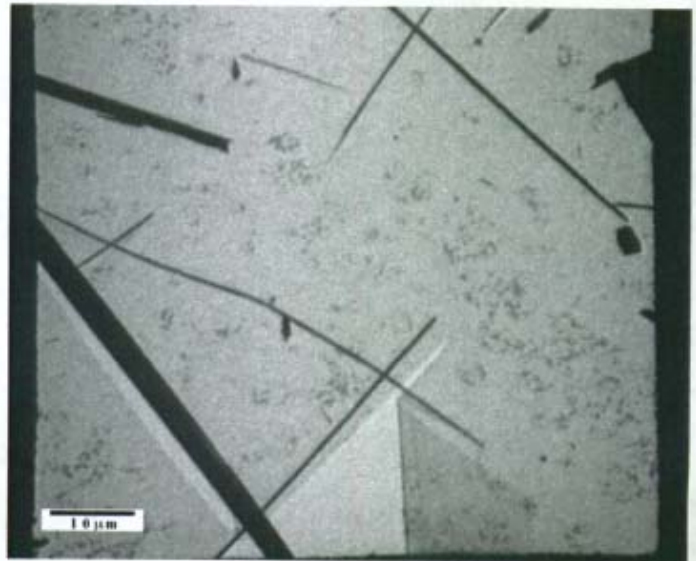
Mineral category: Amphibole

Zone 301 D1 9.11

Phi 82.8 D2 1.78

RJLG # 3045126 Field 8, Fiber 2
 Rock Outcrop next to Building Air Conditioner -- 1021 Harvard Way

TEM and SEM Data

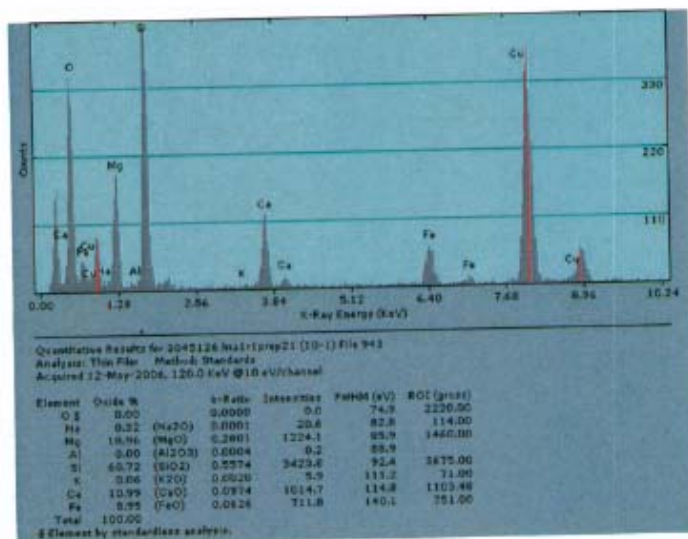
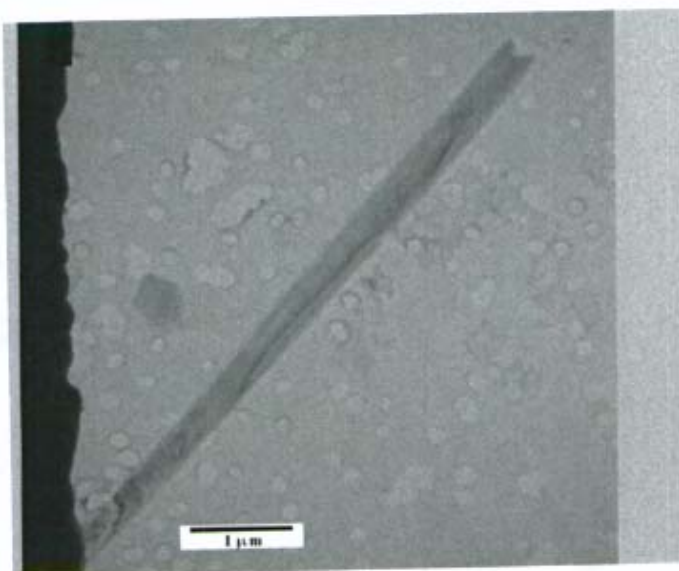
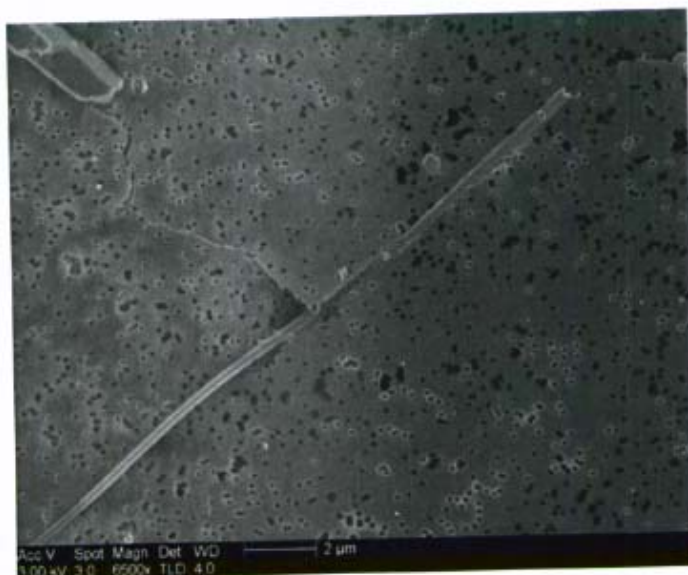


L = 90.25 W = .9 AR = 100:1
 Mineral category: Amphibole

Zone 201 D1 9.09
 Phi 81.2 D2 2.62

RJLG # 3045126 Field 9, Fiber 1
 Rock Outcrop next to Building Air Conditioner -- 1021 Harvard Way

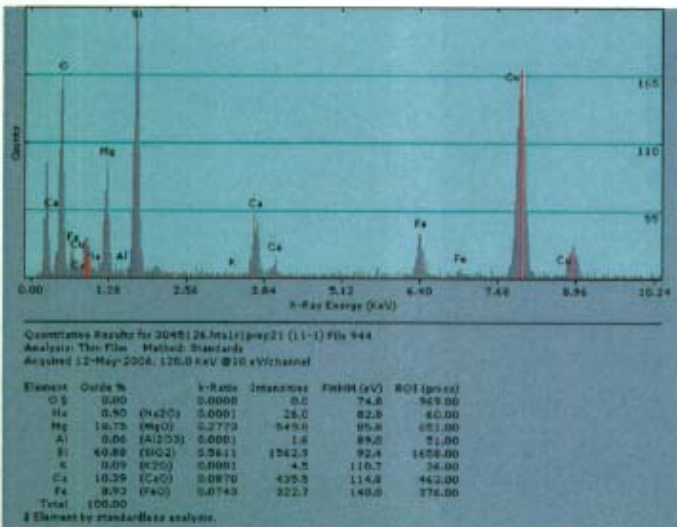
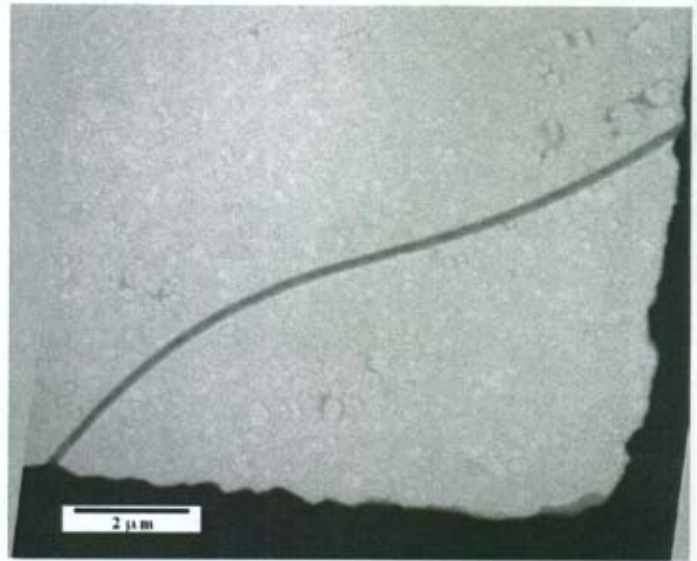
TEM and SEM Data



L = 8 W = .45 AR = 18:1
 Mineral category: Amphibole

Zone 213 D1 5.01
 Phi 89.4 D2 3.31

RJLG # 3045126 Field 10, Fiber 1
 Rock Outcrop next to Building Air Conditioner -- 1021 Harvard Way

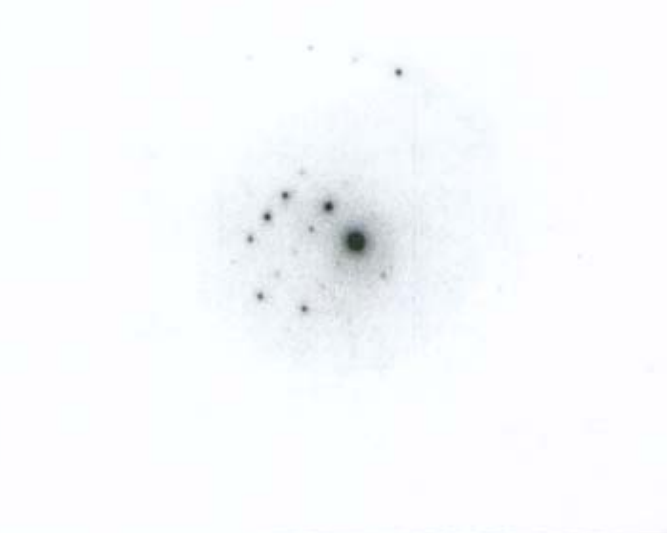
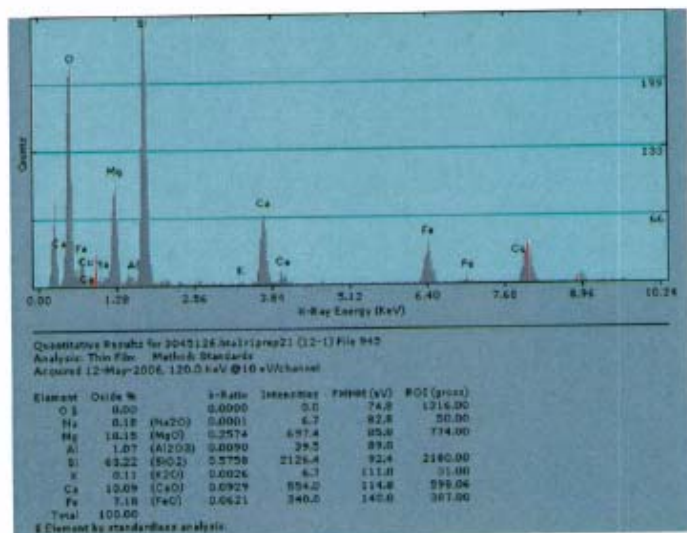
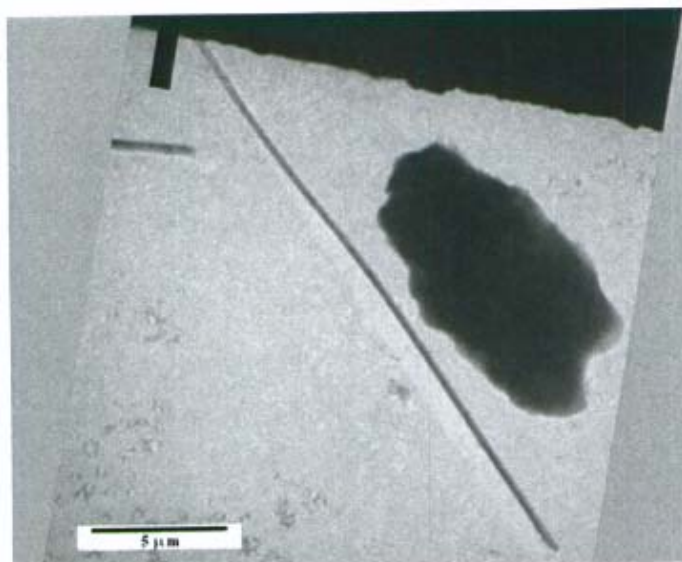
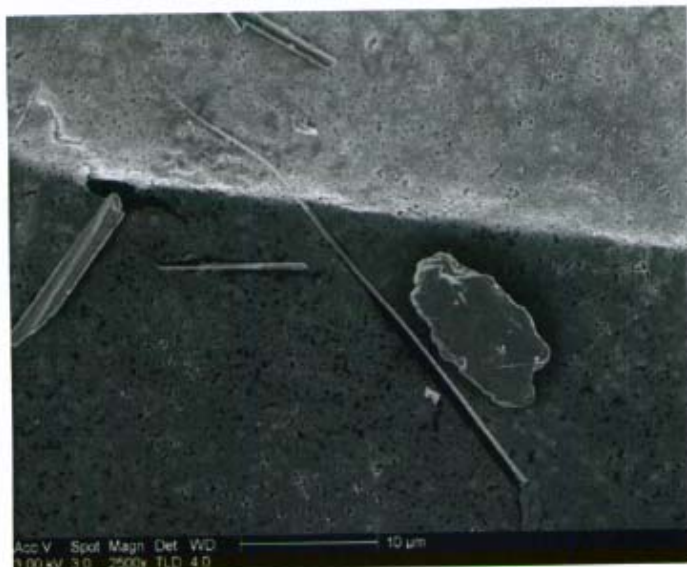


L = 14.5 W = .2 AR = 73:1
 Mineral category: Amphibole

Zone 210 D1 5.2
 Phi 80.2 D2 3.32

RJLG # 3045126 Field 11, Fiber 1
 Rock Outcrop next to Building Air Conditioner -- 1021 Harvard Way

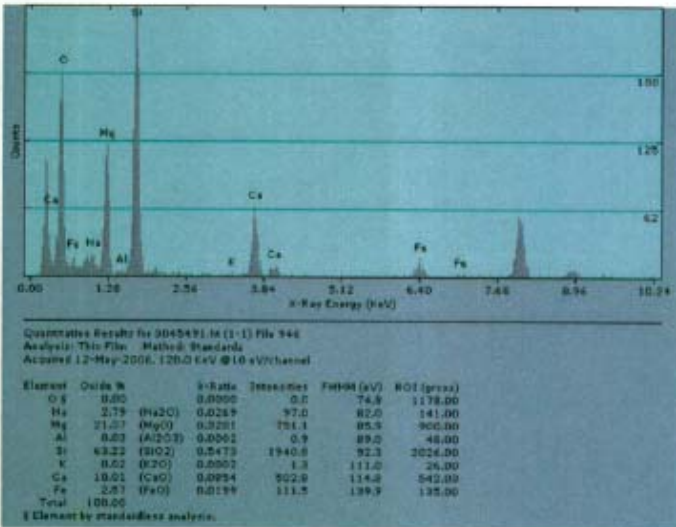
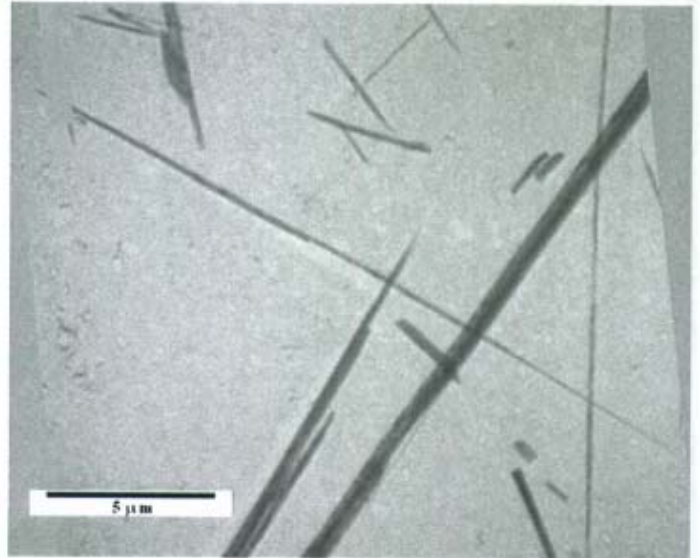
TEM and SEM Data



L = 30.5 W = .3 AR = 102:1
 Mineral category: Amphibole

Zone 210 D1 4.95
 Phi 78.2 D2 3.18

RJLG # 3045126 Field 12, Fiber 1
 Rock Outcrop next to Building Air Conditioner -- 1021 Harvard Way



L = 24.25 W = .2 AR = 121:1

Mineral category: Amphibole

Zone 3-10

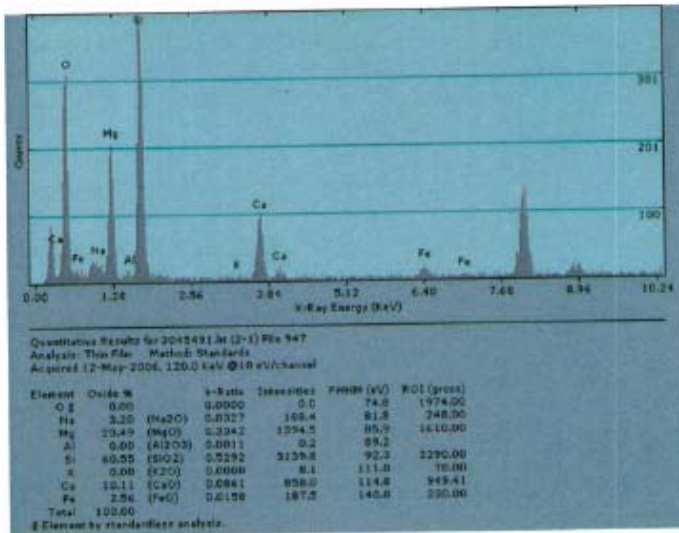
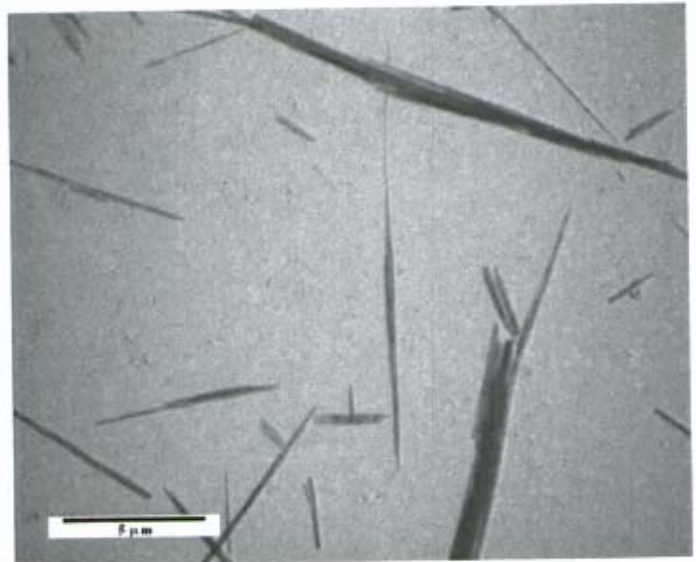
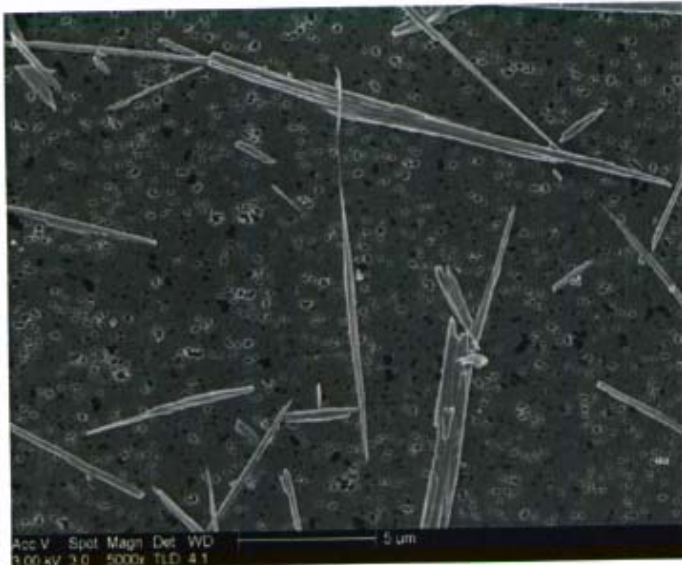
D1 5.2

Phi 80.9

D2 5.18

RJLG # 3045491 Field 1, Fiber 1
 San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766

TEM and SEM Data



L = 16.25 W = .3 AR = 54:1

Mineral category: Amphibole

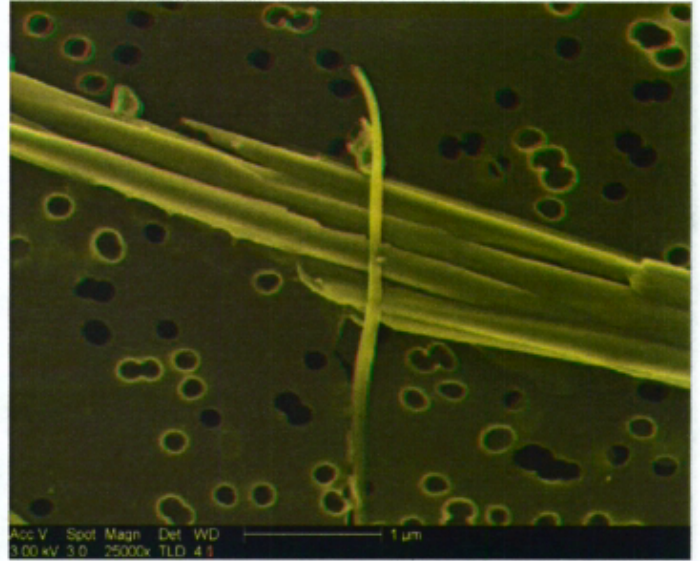
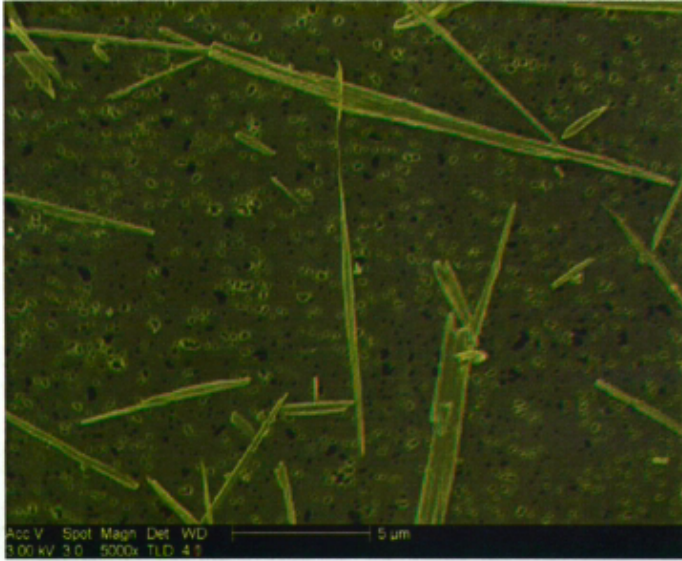
Zone 201

D1 9.15

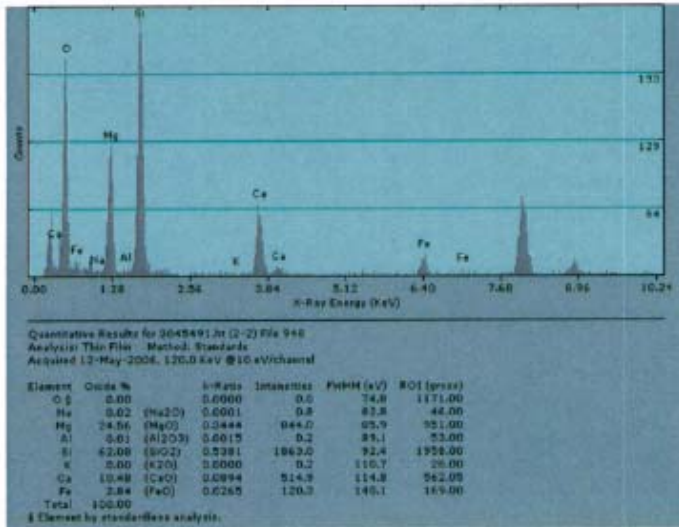
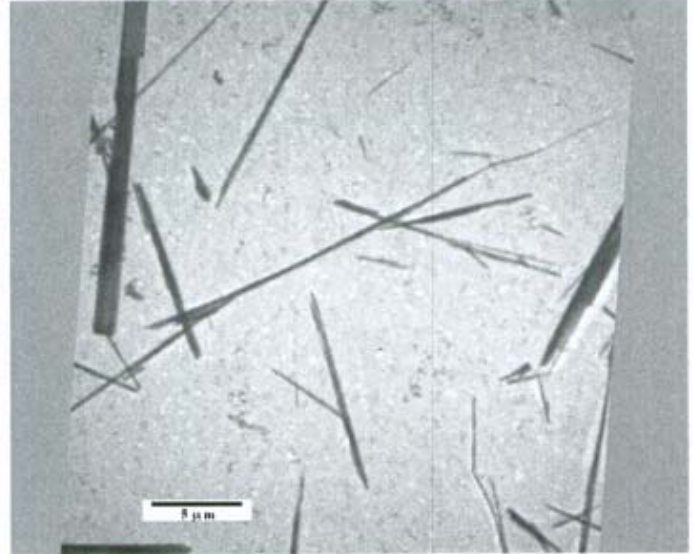
Phi 82.2

D2 2.62

RJLG # 3045491 Field 2, Fiber 1
San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766



RJLG # 3045491 Field 2, Fiber 1
San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766

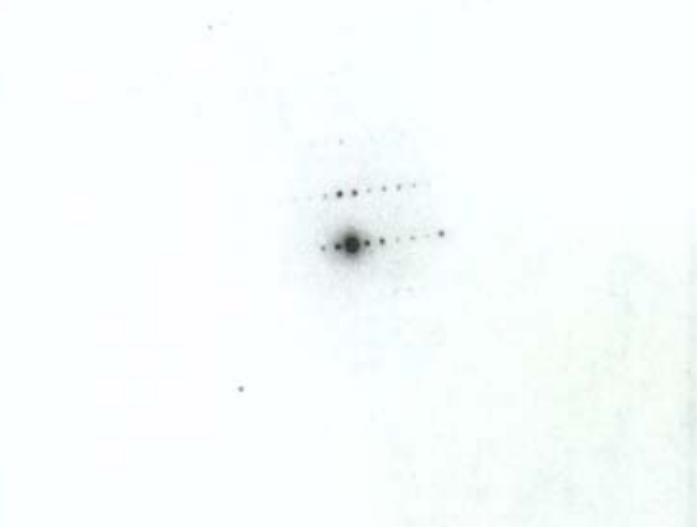
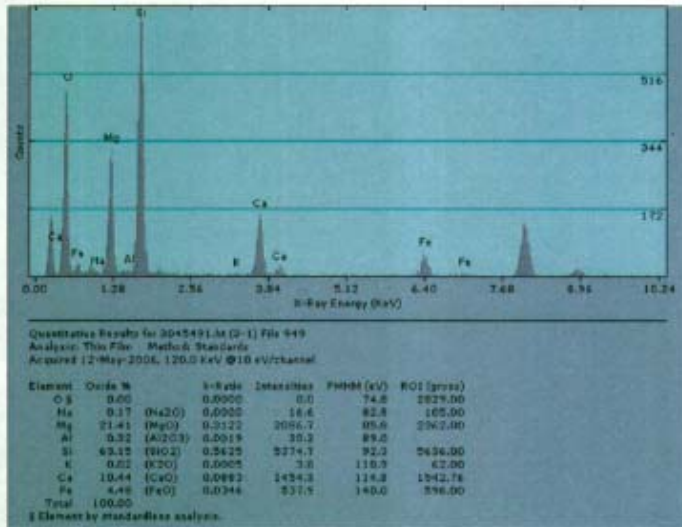
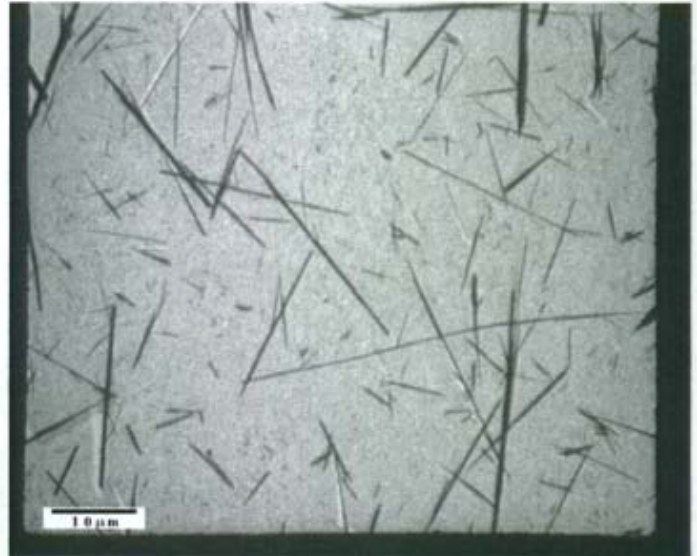


L = 30.25 W = .2 AR = 151:1

Mineral category: Amphibole

Zone	201	D1	9.23
Phi	81.3	D2	2.68

RJLG # 3045491 Field 2, Fiber 2
 San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766



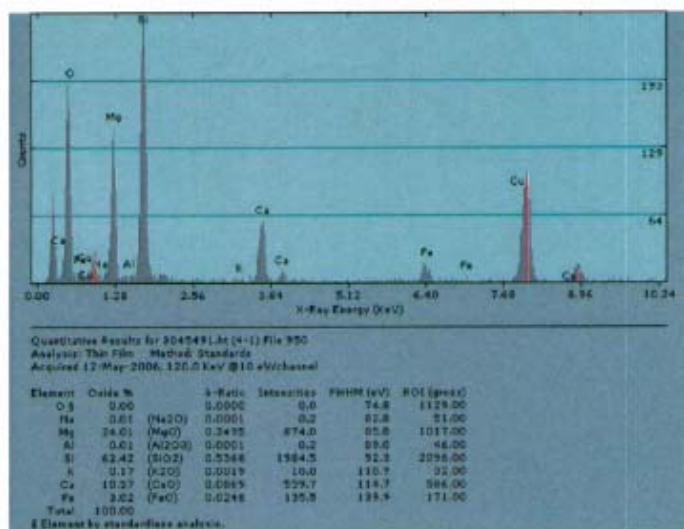
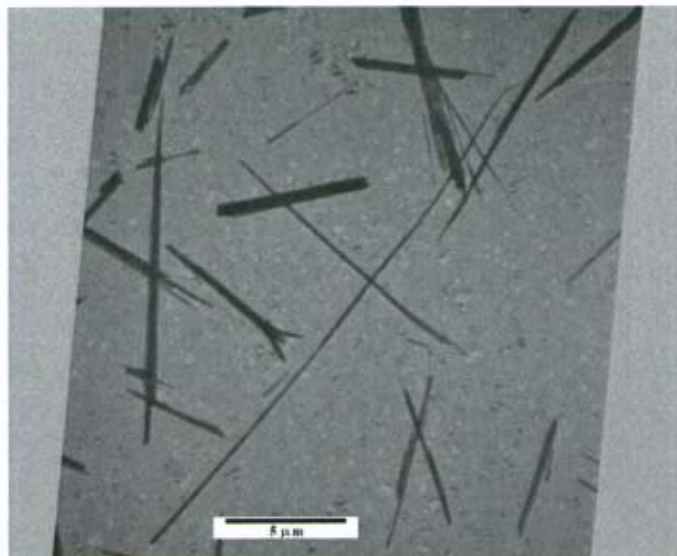
L = 65.5 W = .5 AR = 131:1

Mineral category: Amphibole

Zone	201	D1	9.31
Phi	81.5	D2	2.68

RJLG # 3045491 Field 3, Fiber 1
 San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766

TEM and SEM Data

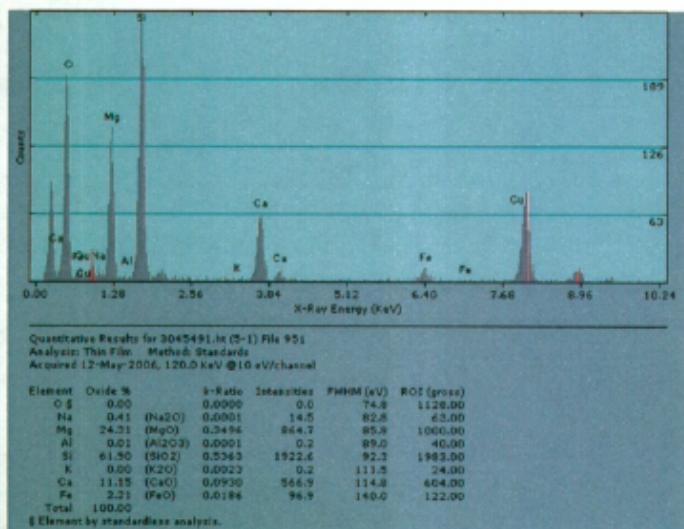
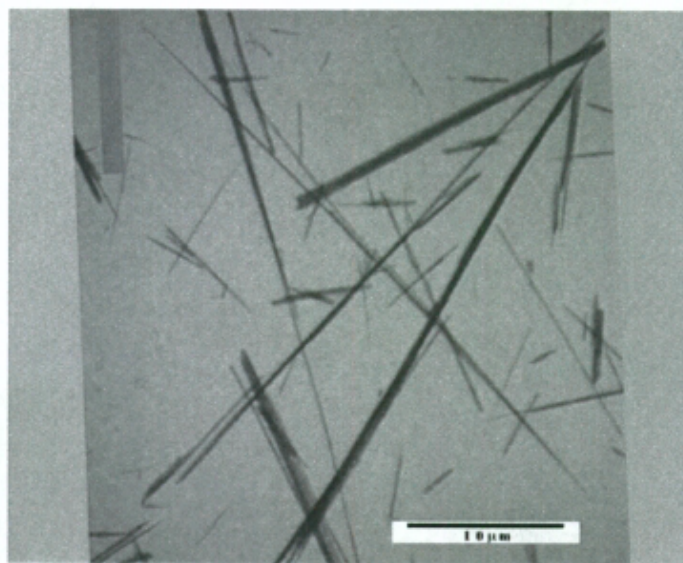
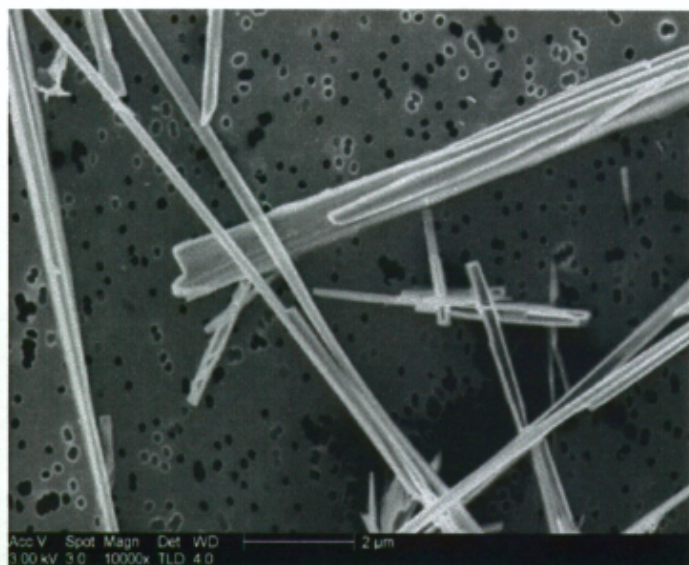


SAED not measured

L = 27 W = .25 AR = 108:1

Mineral category: Amphibole

RJLG # 3045491 Field 4, Fiber 1
 San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766

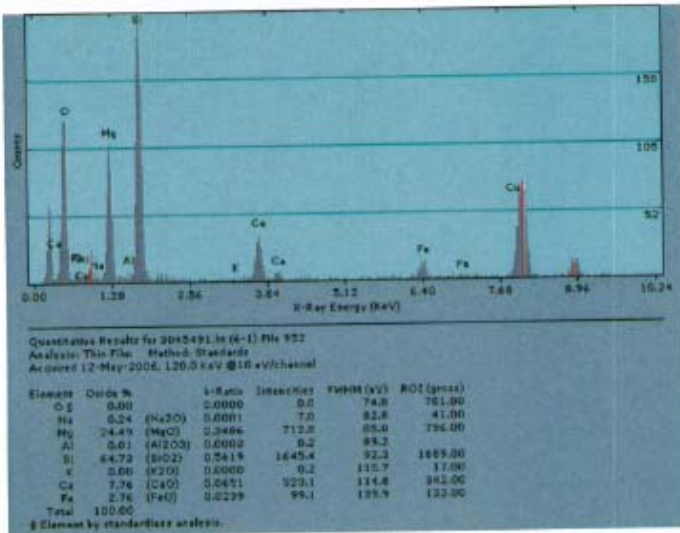
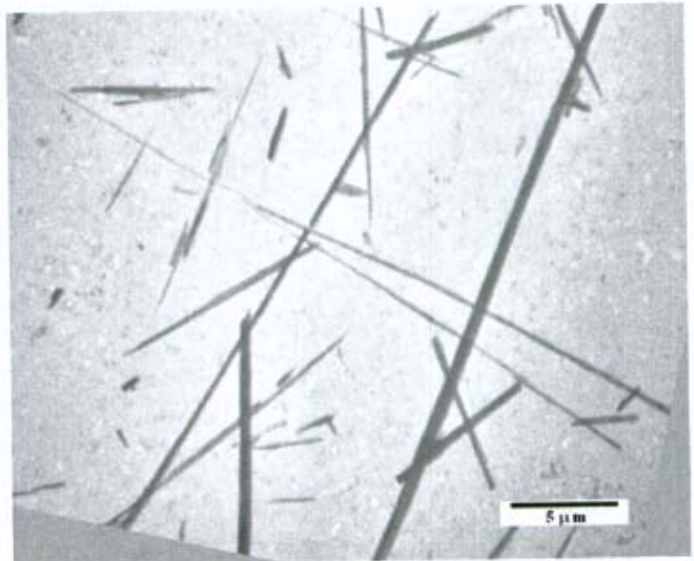
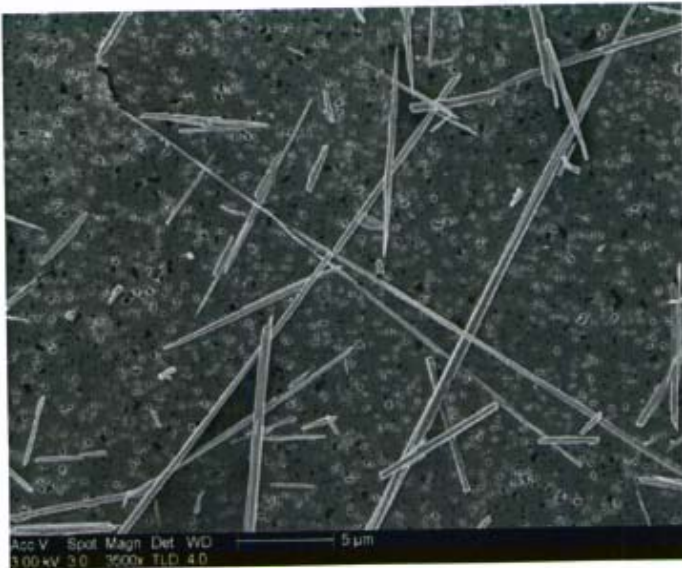


L = 40.5 W = .4 AR = 101:1
 Mineral category: Amphibole

Zone 1-15 D1 8.58
 Phi 87.8 D2 1.76

RJLG # 3045491 Field 5, Fiber 1
 San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766

TEM and SEM Data



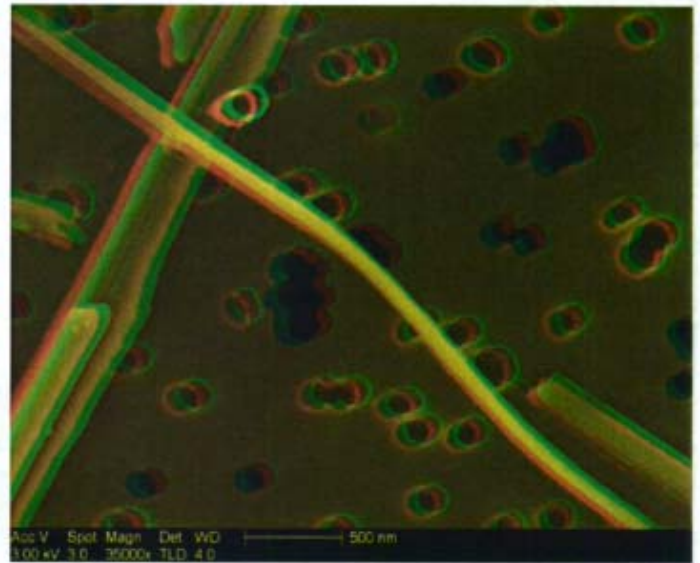
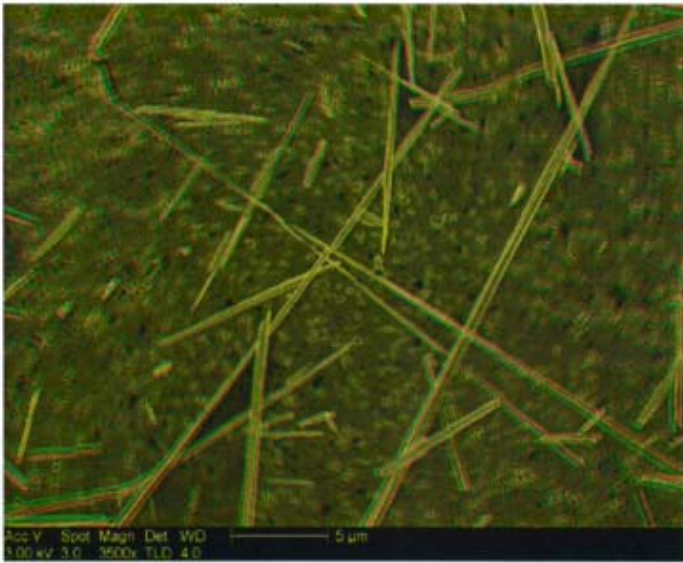
SAED not measured

L = 33.5 W = .2 AR = 168:1

Mineral category: Amphibole

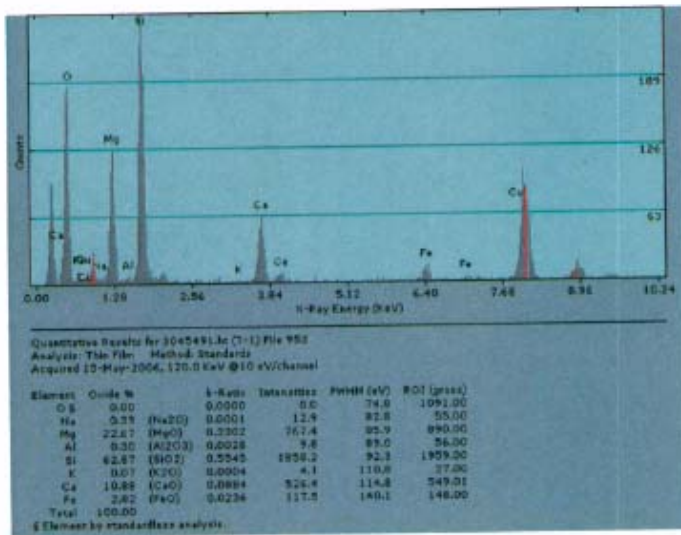
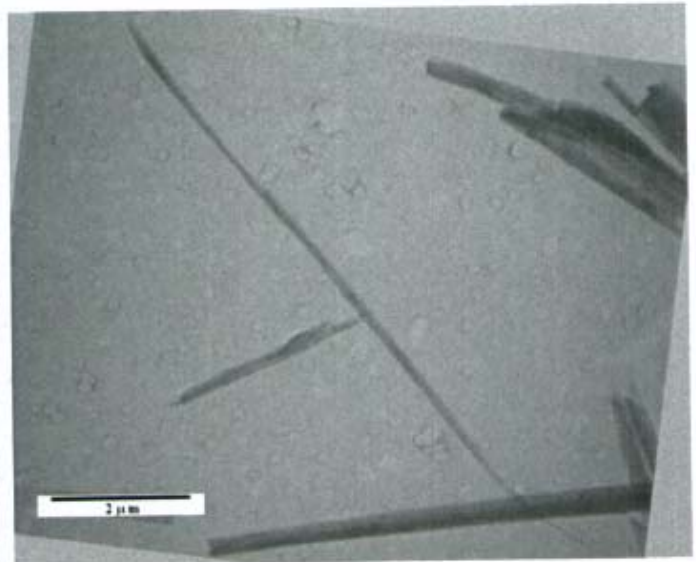
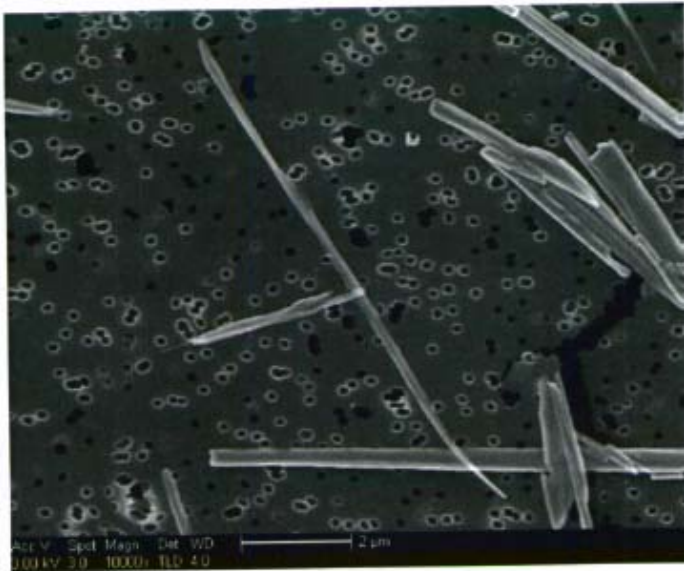
RJLG # 3045491 Field 6, Fiber 1
 San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766

TEM and SEM Data



RJLG # 3045491 Field 6, Fiber 1
San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766

TEM and SEM Data



L = 11.5 W = .15 AR = 77:1

Mineral category: Amphibole

Zone 5-10

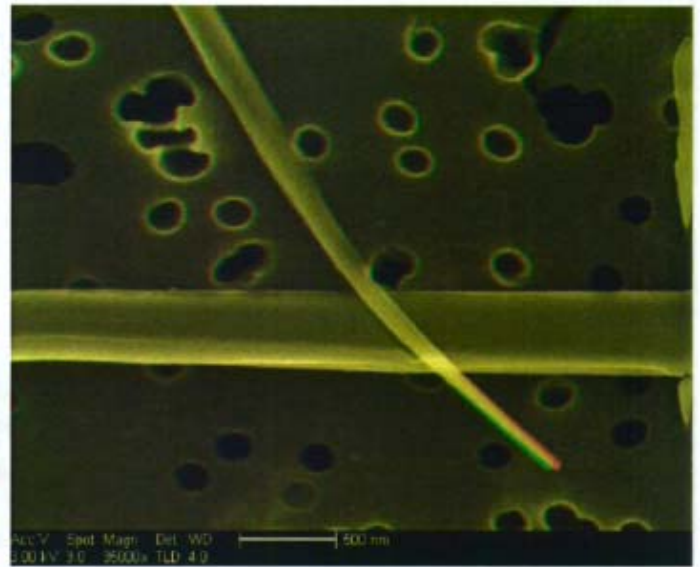
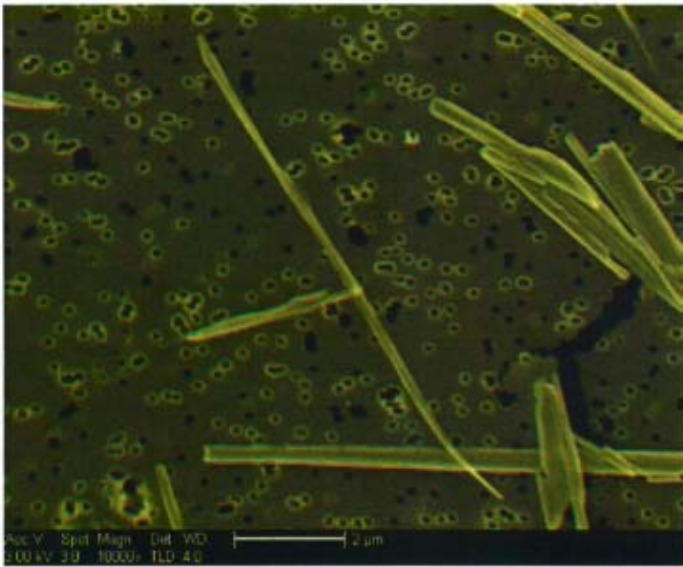
D1 5.13

Phi 83.9

D2 3.41

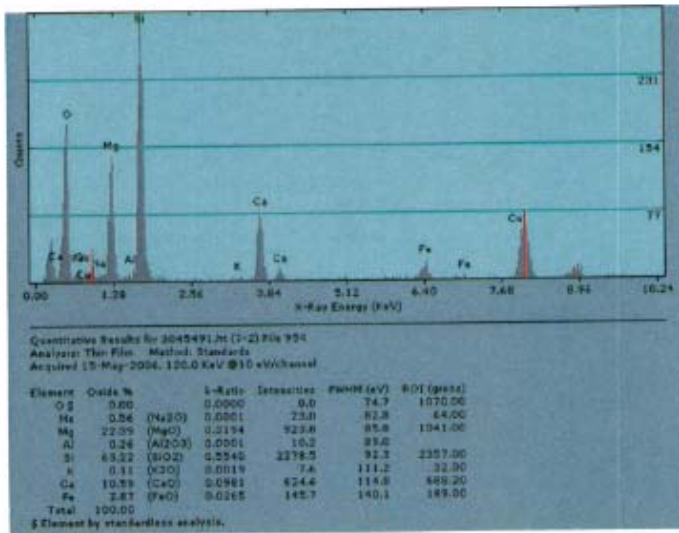
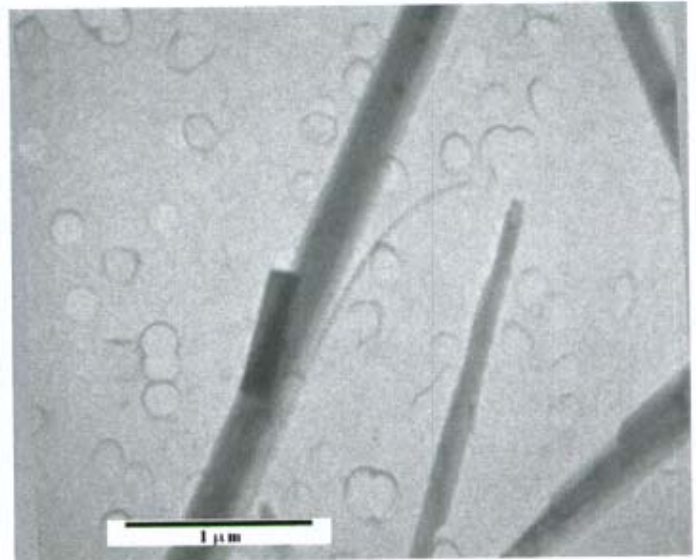
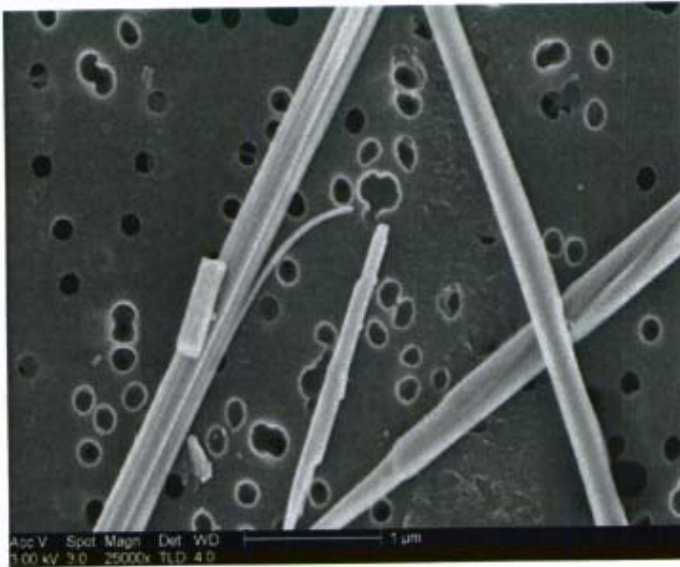
RJLG # 3045491 Field 7, Fiber 1
 San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766

TEM and SEM Data



RJLG # 3045491 Field 7, Fiber 1
San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766

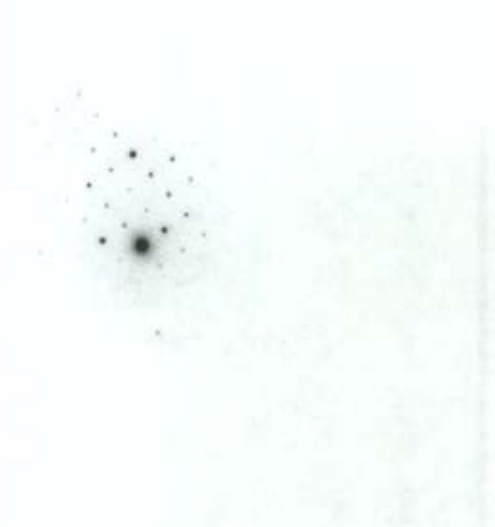
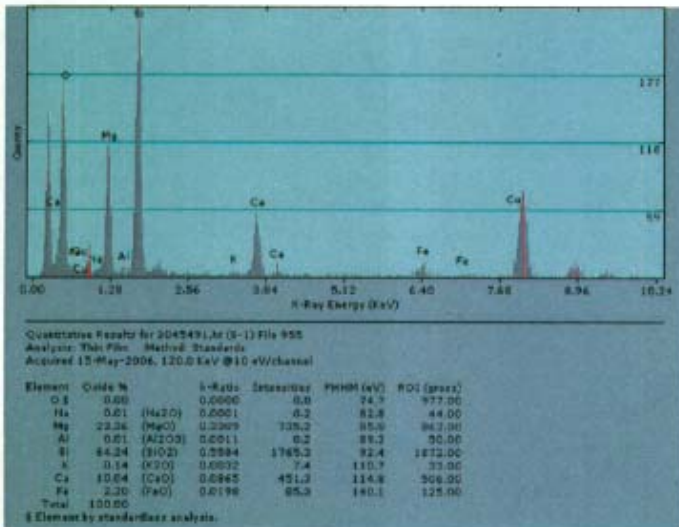
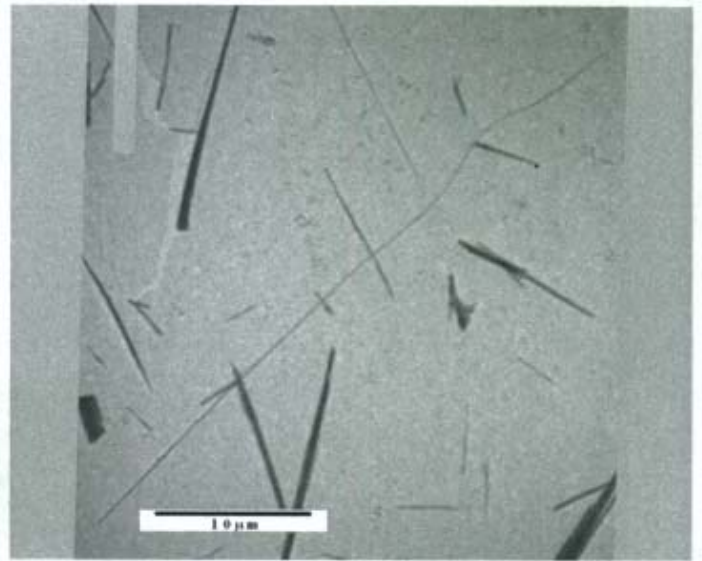
TEM and SEM Data



L = 20 W = .25 AR = 80:1
Mineral category: Amphibole

Zone	3-10	D1	5.16
Phi	81.4	D2	6.12

RJLG # 3045491 Field 7, Fiber 2
San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766

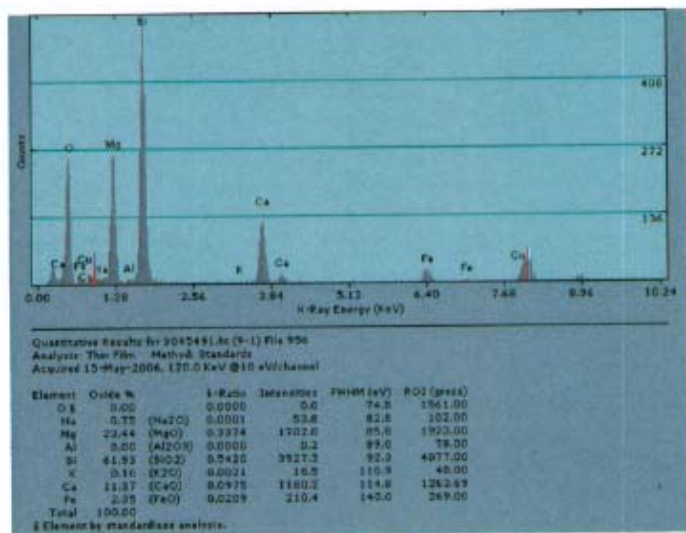


L = 54 W = .15 AR = 360:1

SAED not measured

Mineral category: Amphibole

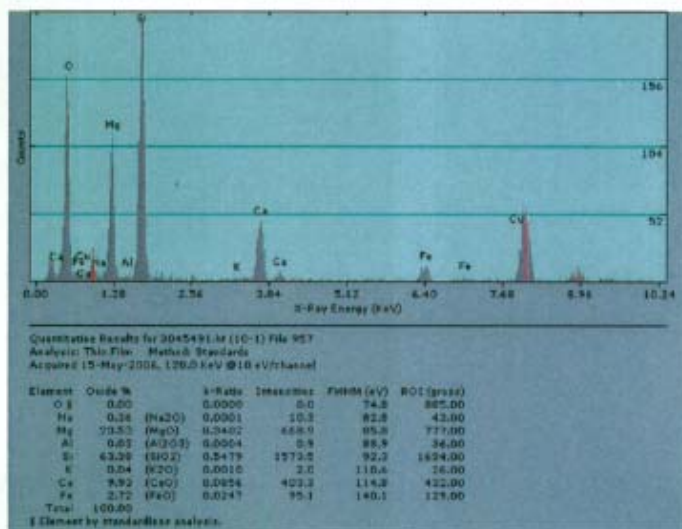
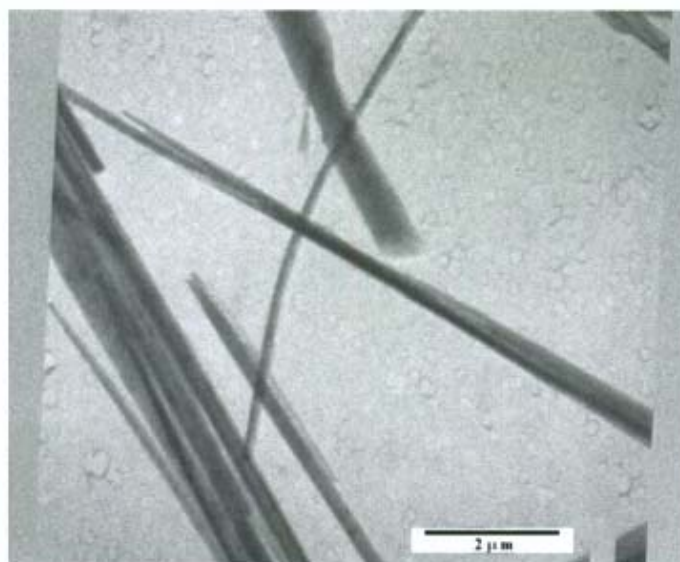
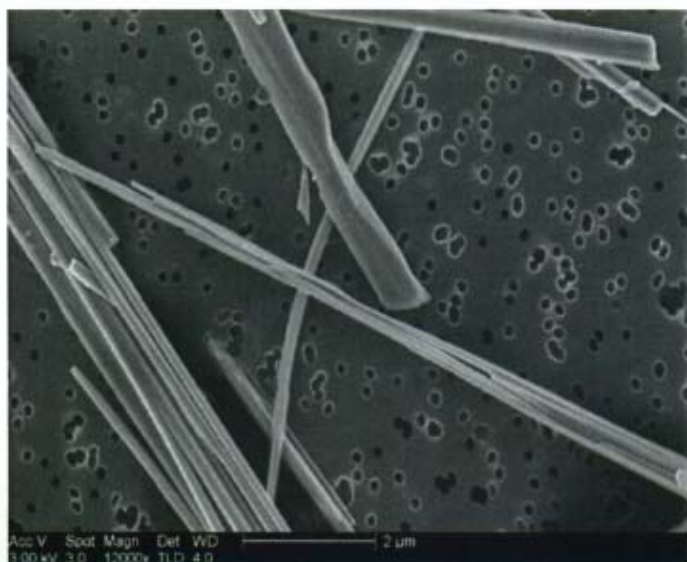
RJLG # 3045491 Field 8, Fiber 1
 San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766



L = 47.75 W = .7 AR = 68:1
 Mineral category: Amphibole

Zone 1-12 D1 8.52
 Phi 89.3 D2 4.49

RJLG # 3045491 Field 9, Fiber 1
 San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766



L = 8.8 W = .15 AR = 59:1

Mineral category: Amphibole

Zone 201

Phi 82.6

D1 9.2

D2 2.66

RJLG # 3045491 Field 10, Fiber 1
 San Andreas Asbestiform Tremolite -- 38 deg 12.804 120 deg 41.766