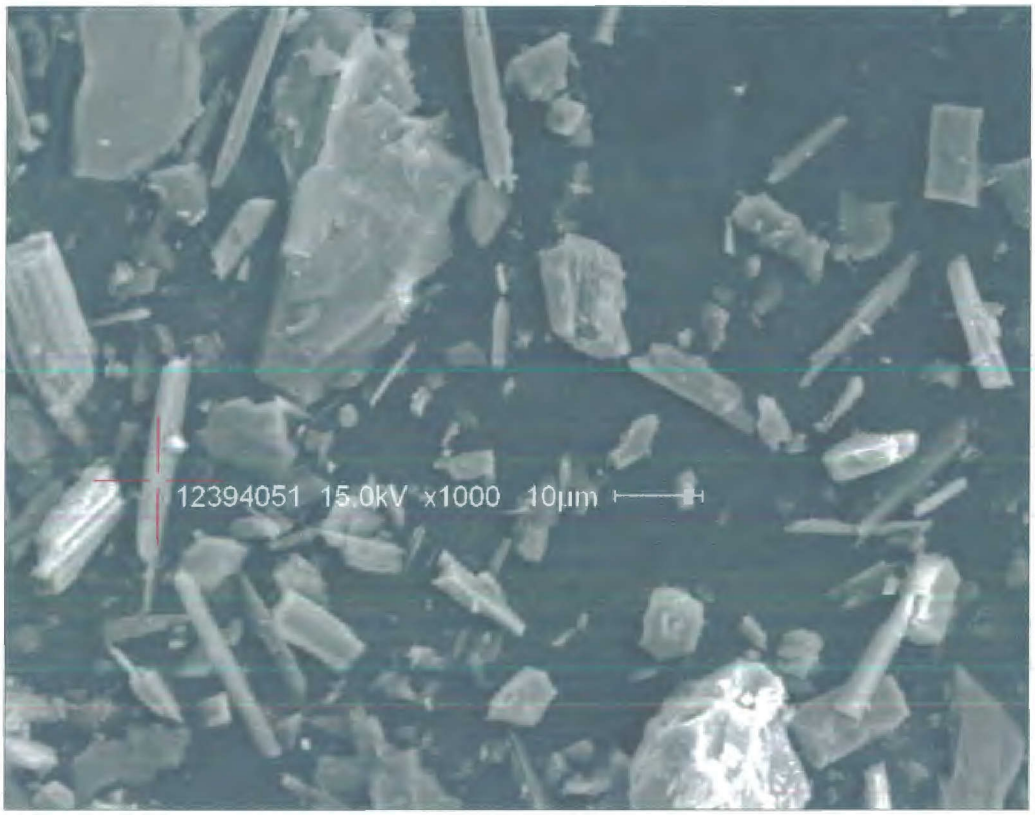


SE1 10µm 1000x

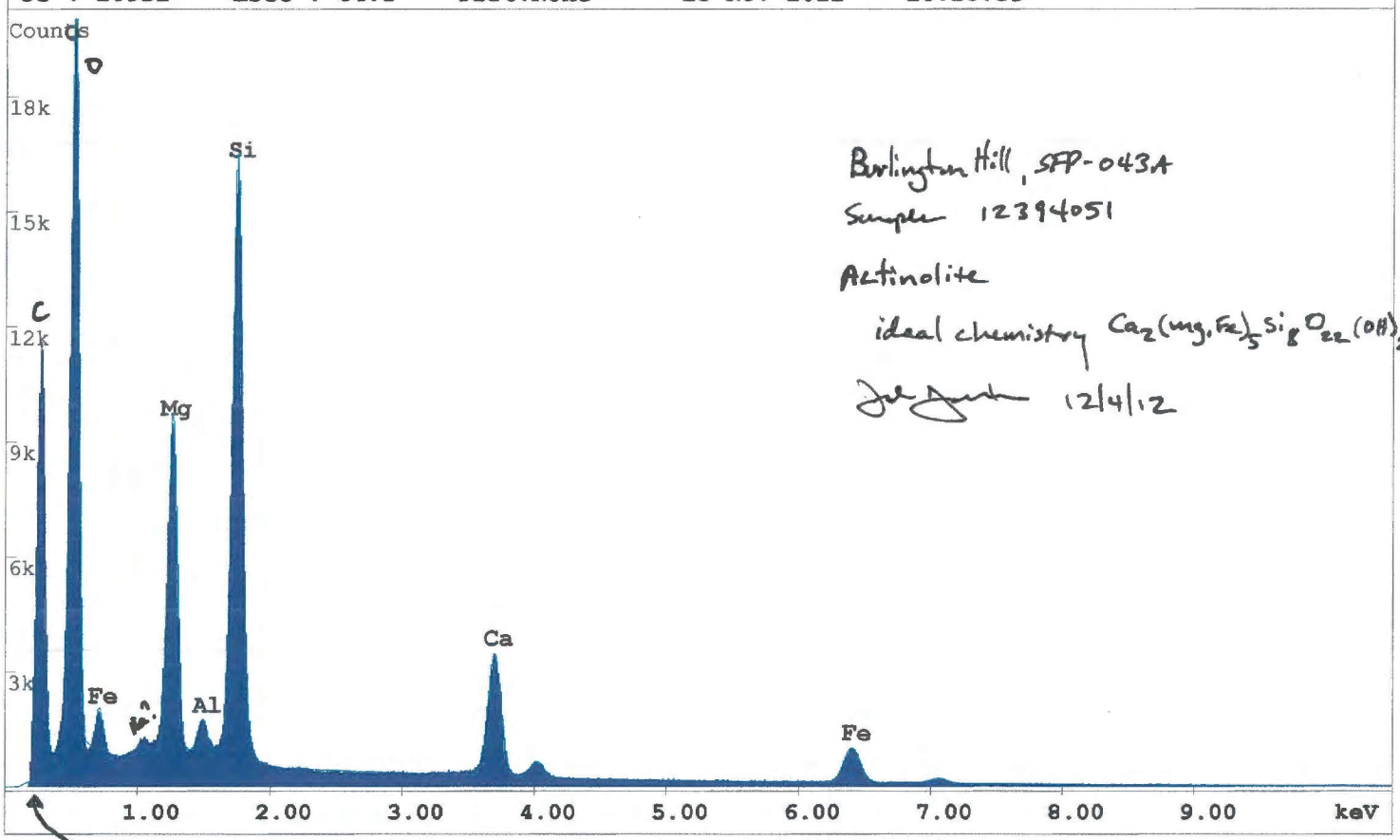
EDS Quantitative Results

Element	Wt%	At%
OK	46.50	62.90
MgK	12.27	10.92
AlK	1.31	1.05
SiK	21.68	16.70
CaK	8.89	4.80
FeK	9.36	3.63

C:\DOCUMENTS AND SETTINGS\LAB\MY DOCUMENTS\PROJECTS\BURLINGTON HILL\12394051.SPC

kV:15.0 Tilt:0.00 Tkoff:36.27 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 20932 LSec : 64.3 Prst:None 28-Nov-2012 10:10:53



Burlington Hill, SFP-043A
Sample 12394051
Actinolite
ideal chemistry $Ca_2(Mg,Fe)_5Si_8O_{22}(OH)_2$
[illegible] 12/4/12

Carbon from Coating

SE1 10µm 1000x

EDS Quantitative Results

Element	Wt%	At%
OK	42.74	58.60
MgK	3.39	3.06
AlK	14.91	12.12
SiK	23.33	18.22
KK	11.02	6.18
FeK	4.61	1.81

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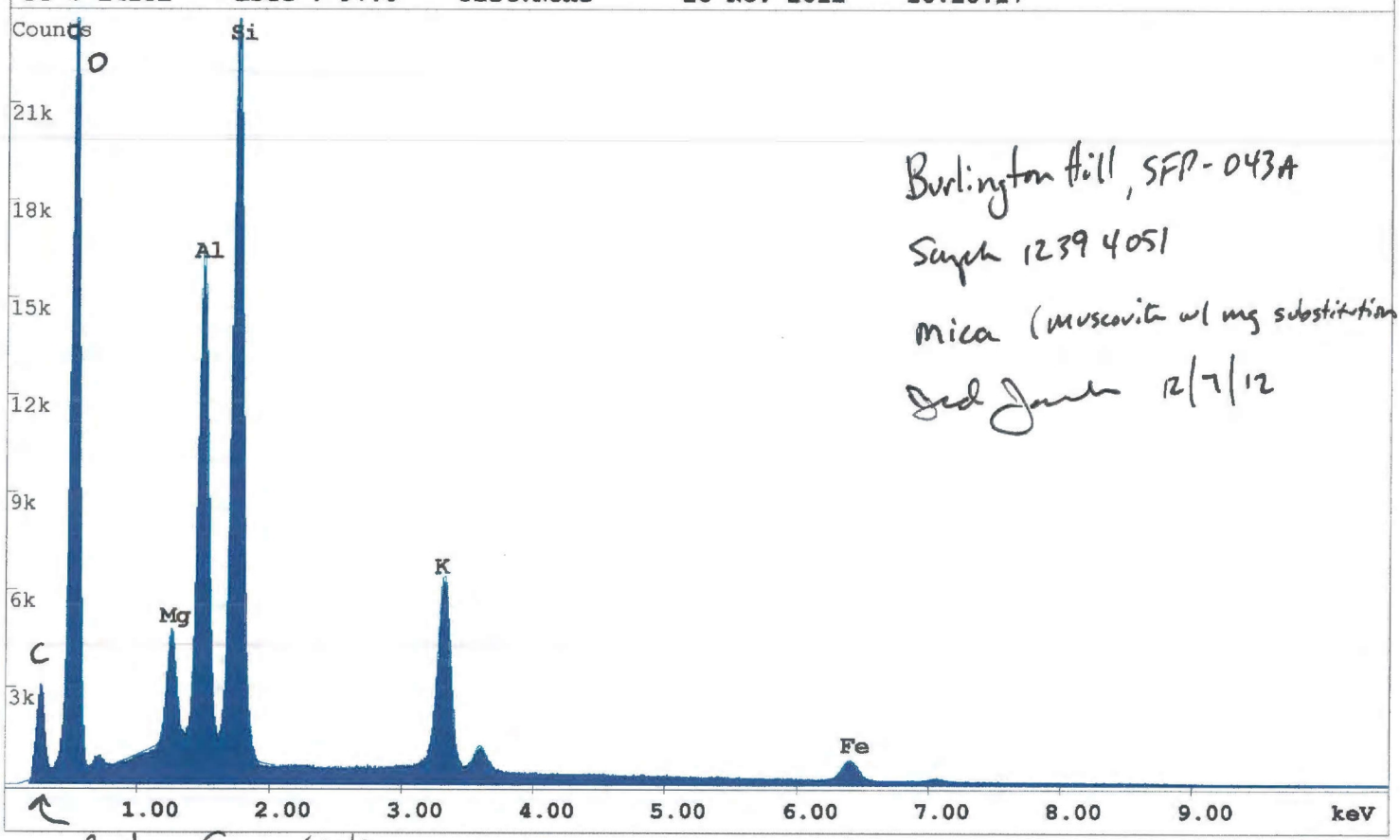
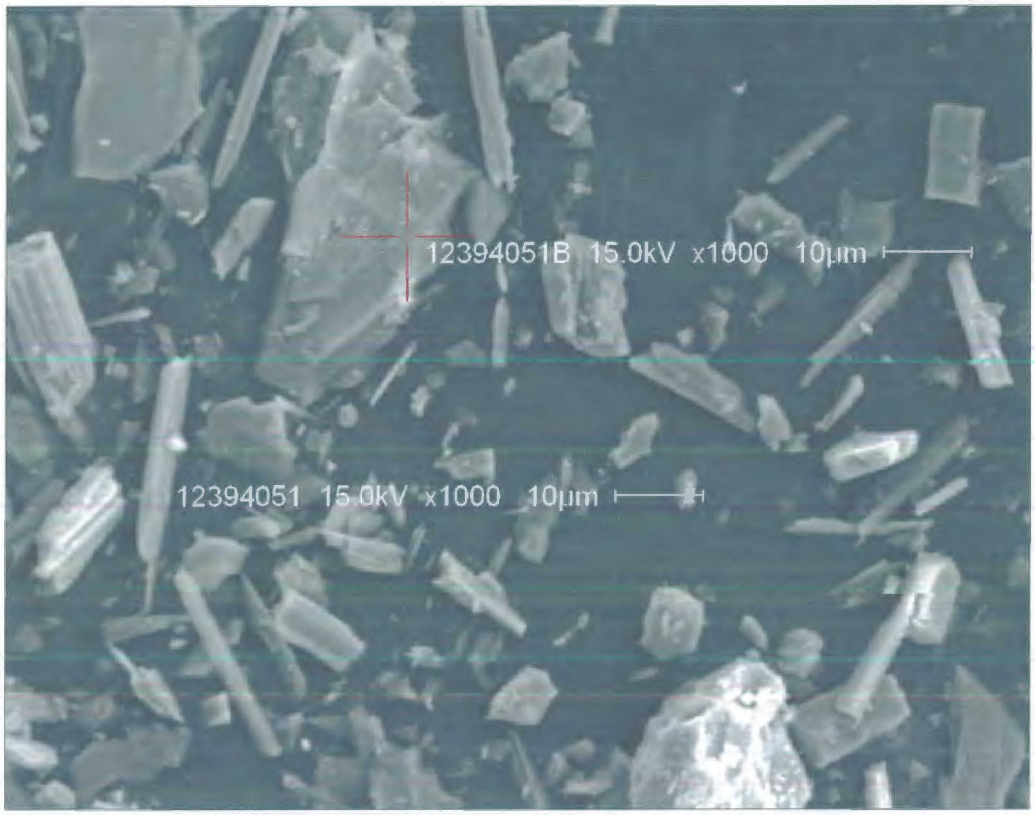
kV:15.0 Tilt:0.00 Tkoff:36.27 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 24182 LSec : 97.0 Prst:None 28-Nov-2012 10:20:17



Burlington Hill, SFP-043A
Sample 12394051
mica (muscovite w/ mg substitution?)
Ted Jones 12/7/12



SE1 10µm 1000x

EDS Quantitative Results

Element	Wt%	At%
OK	46.28	63.35
MgK	13.69	12.33
AlK	10.29	8.36
SiK	11.10	8.65
FeK	18.64	7.31

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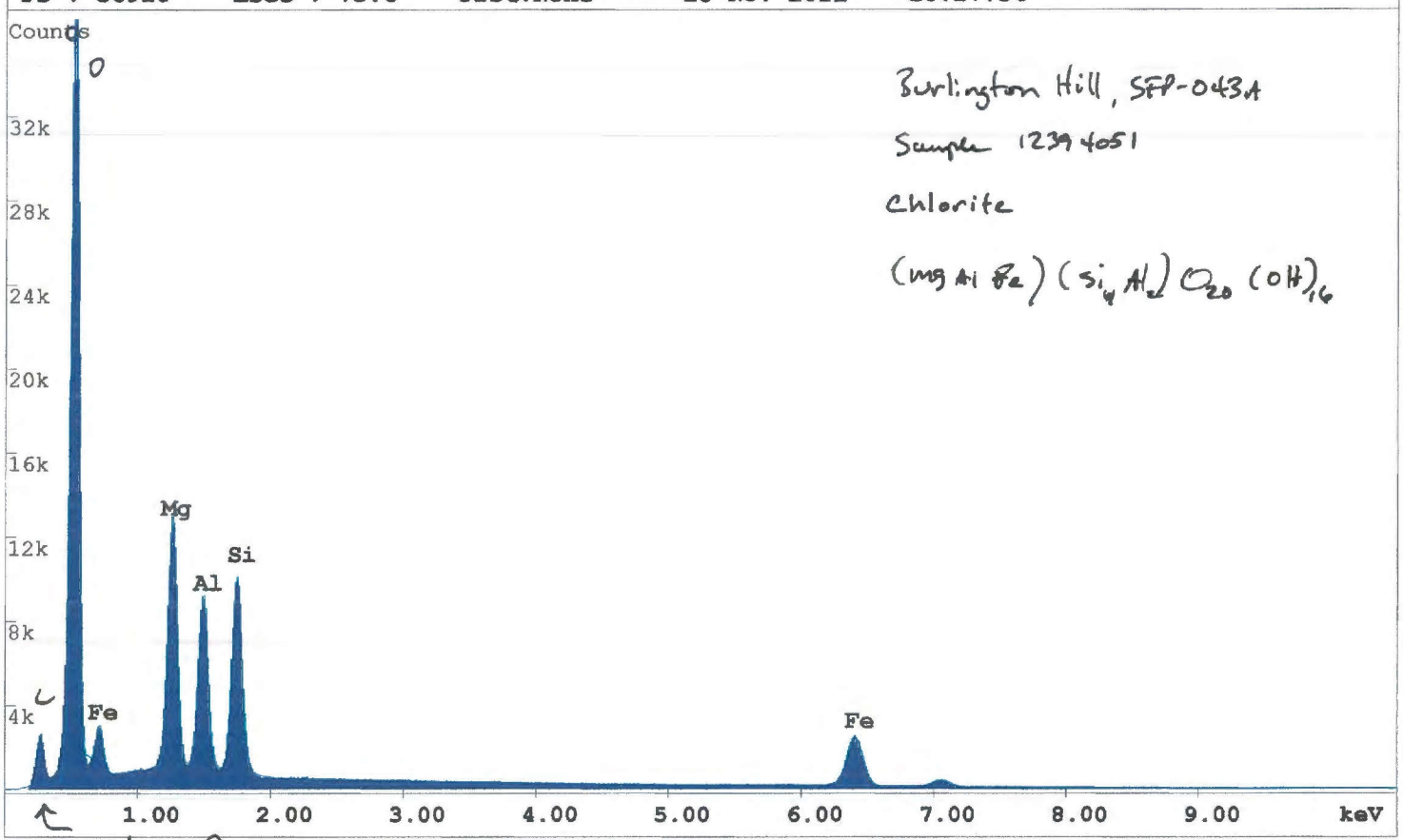
kV:15.0 Tilt:0.00 Tkoff:36.27 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 36920 LSec : 75.6 Prst:None 28-Nov-2012 10:27:54

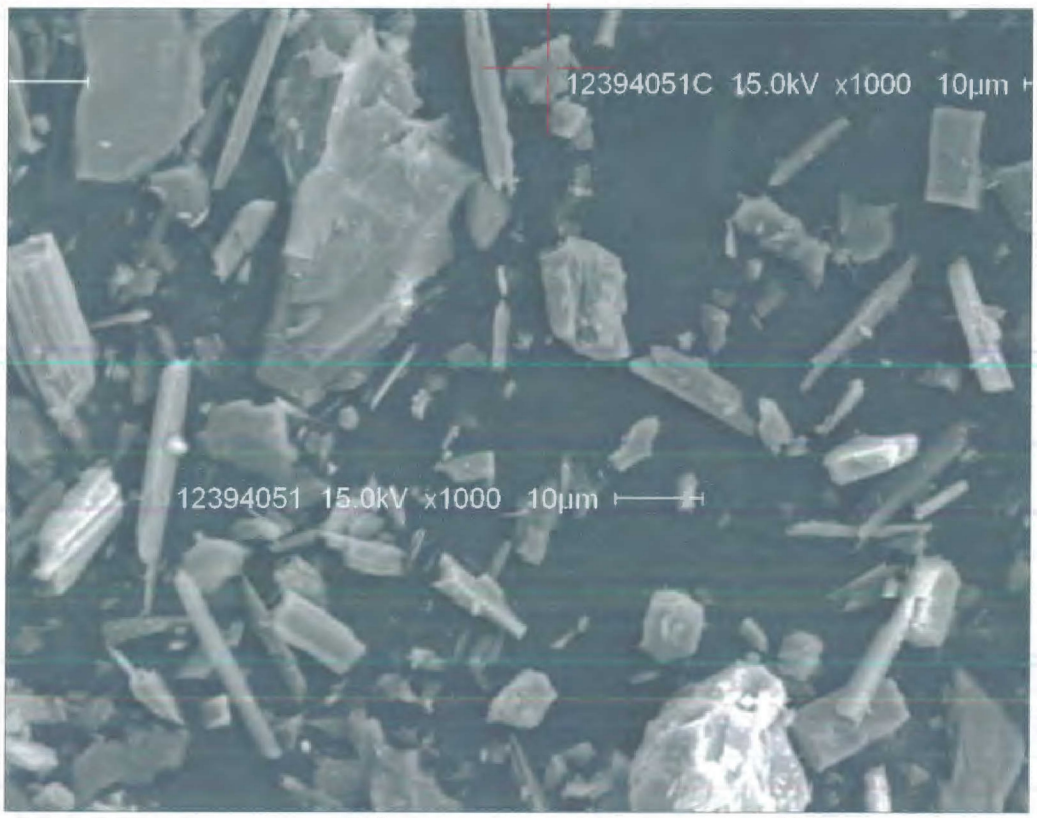


Burlington Hill, SFP-043A

Sample 12394051

Chlorite

$(Mg\ Al\ Fe)(Si_4\ Al_2)O_{20}(OH)_{16}$



SE1 10µm 1000x

EDS Quantitative Results

Element	Wt%	At%
OK	52.20	64.35
NaK	11.47	9.84
AlK	10.35	7.56
SiK	25.98	18.24

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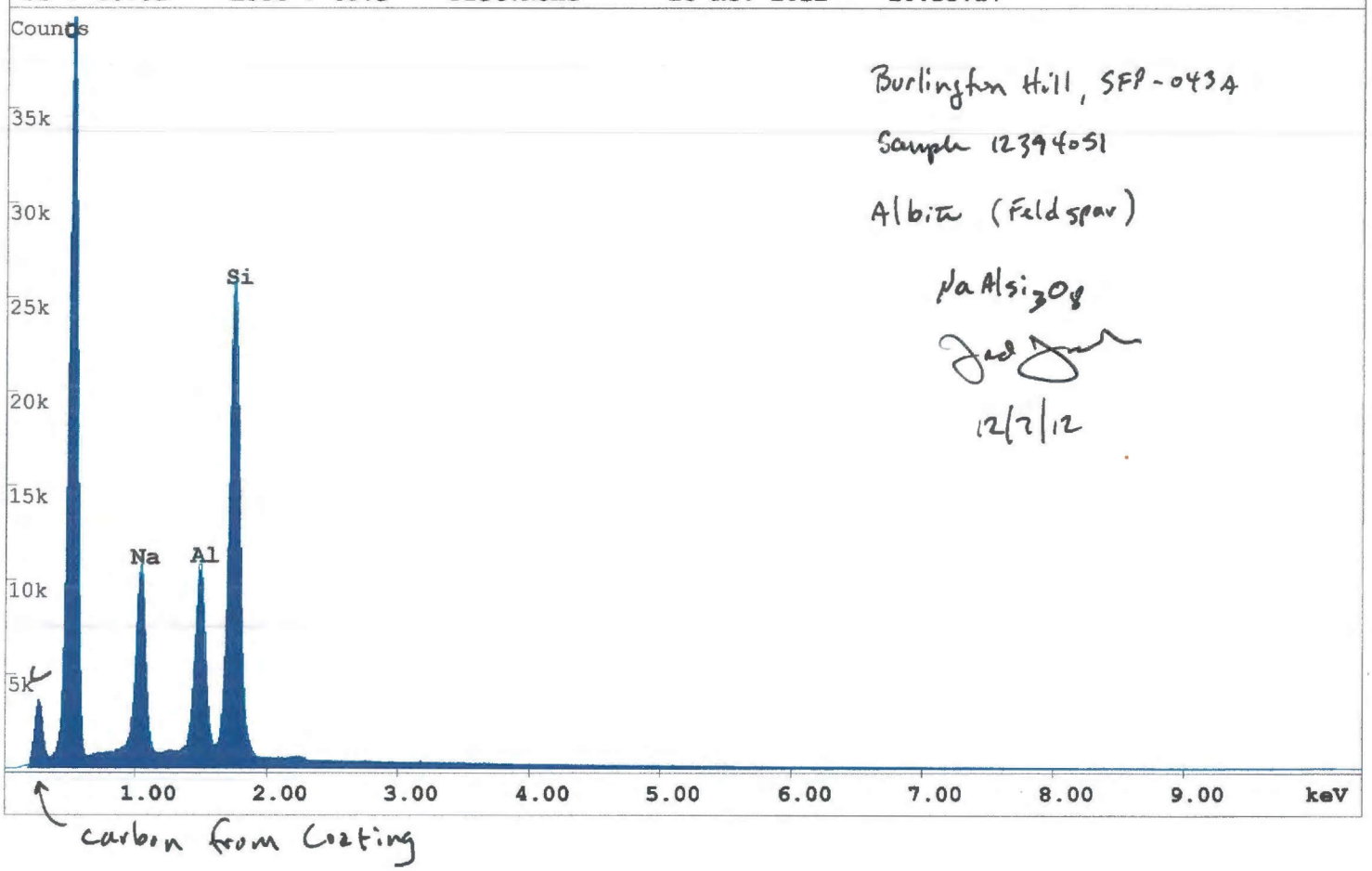
kV:15.0 Tilt:0.00 Tkoff:36.27 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 40701 LSec : 65.3 Prst:None 28-Nov-2012 10:35:17



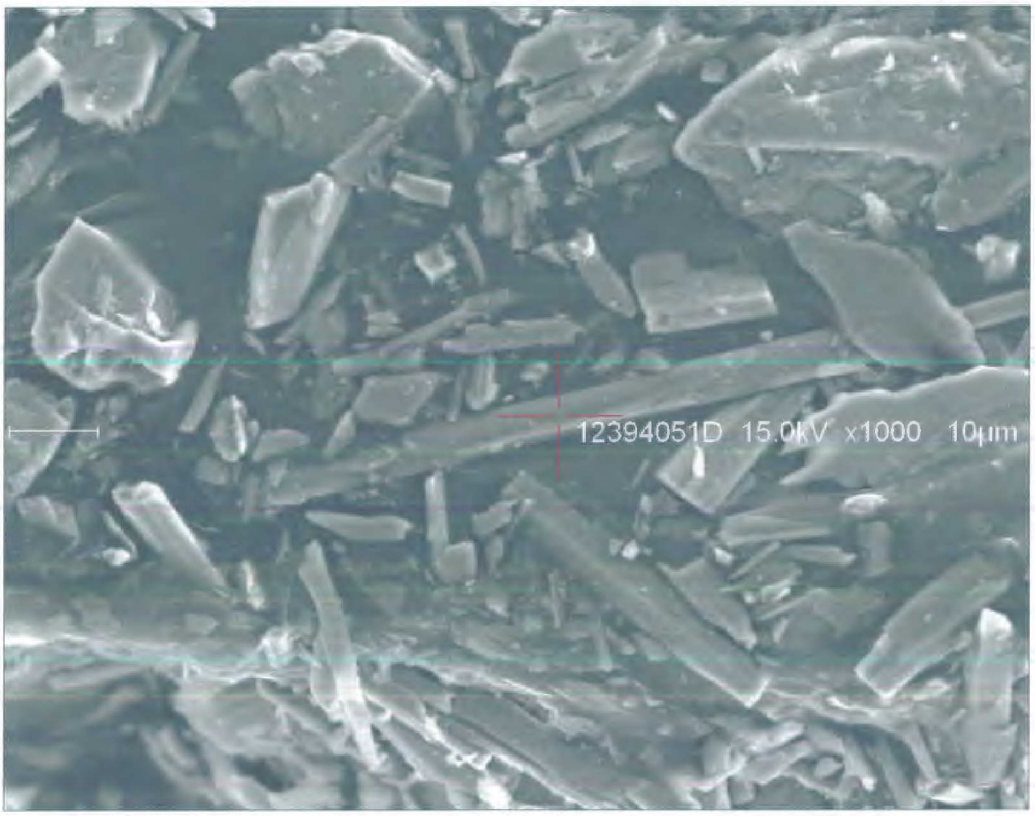
Burlington Hill, SFP-043A

Sample 12394051

Albite (Feldspar)

$NaAlSi_3O_8$

12/7/12



SE1 10µm 1000x

EDS Quantitative Results

Element	Wt%	At%
OK	47.54	63.67
MgK	13.20	11.64
SiK	21.85	16.67
CaK	8.93	4.78
FeK	8.48	3.25

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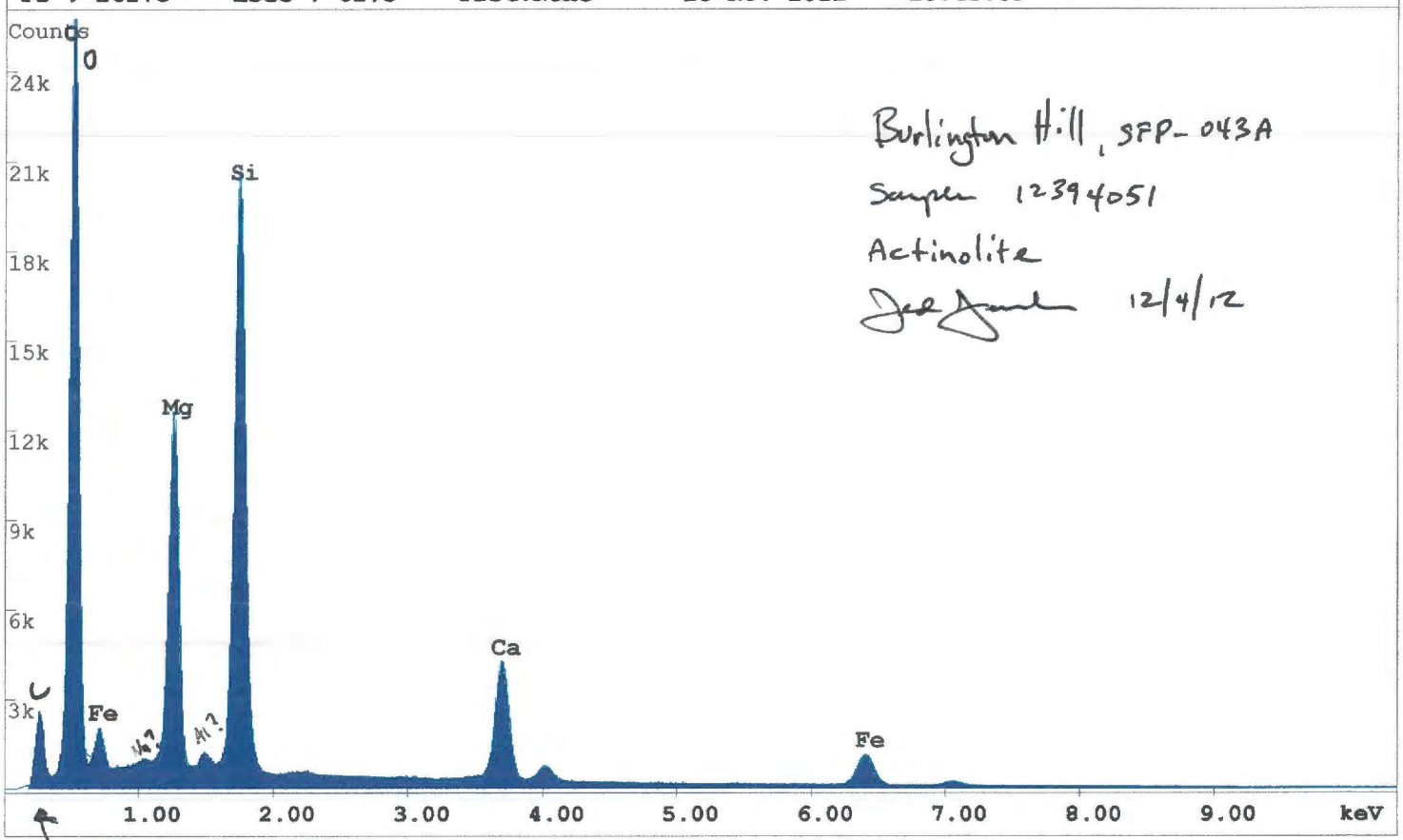
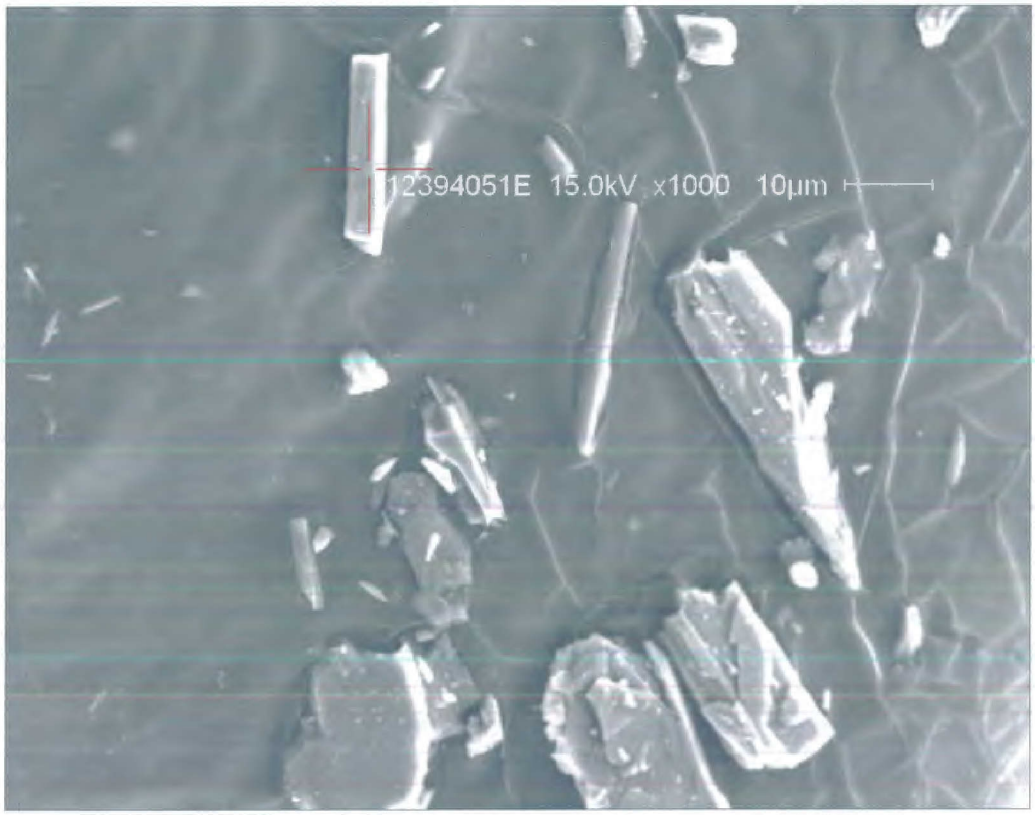
kV:15.0 Tilt:0.00 Tkoff:36.16 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 26178 LSec : 61.5 Prst:None 28-Nov-2012 10:48:09



Burlington Hill, SFP-043A
Sample 12394051
Actinolite
12/4/12

Carbon from Coating



SE1 10µm 1000x

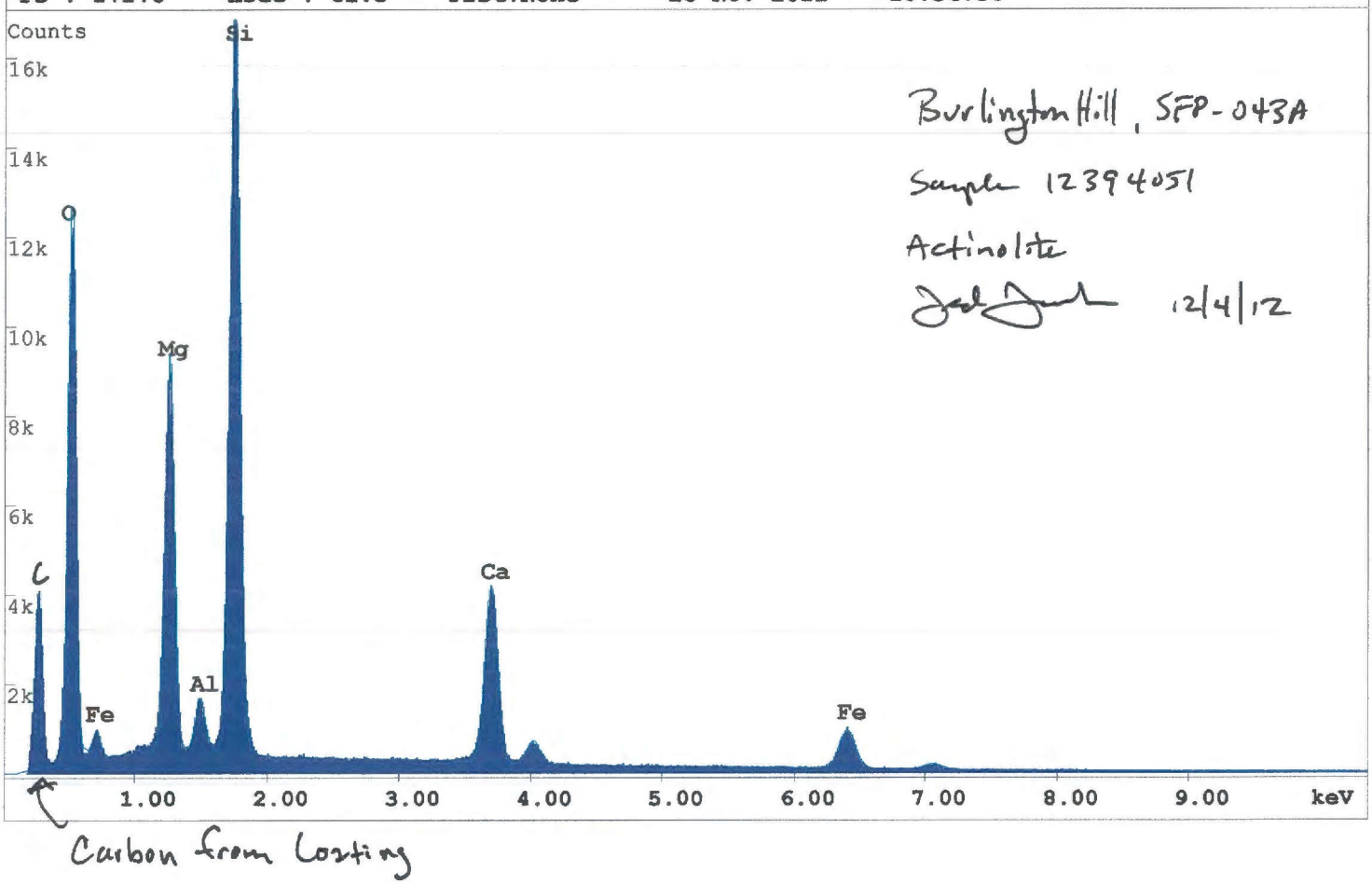
EDS Quantitative Results

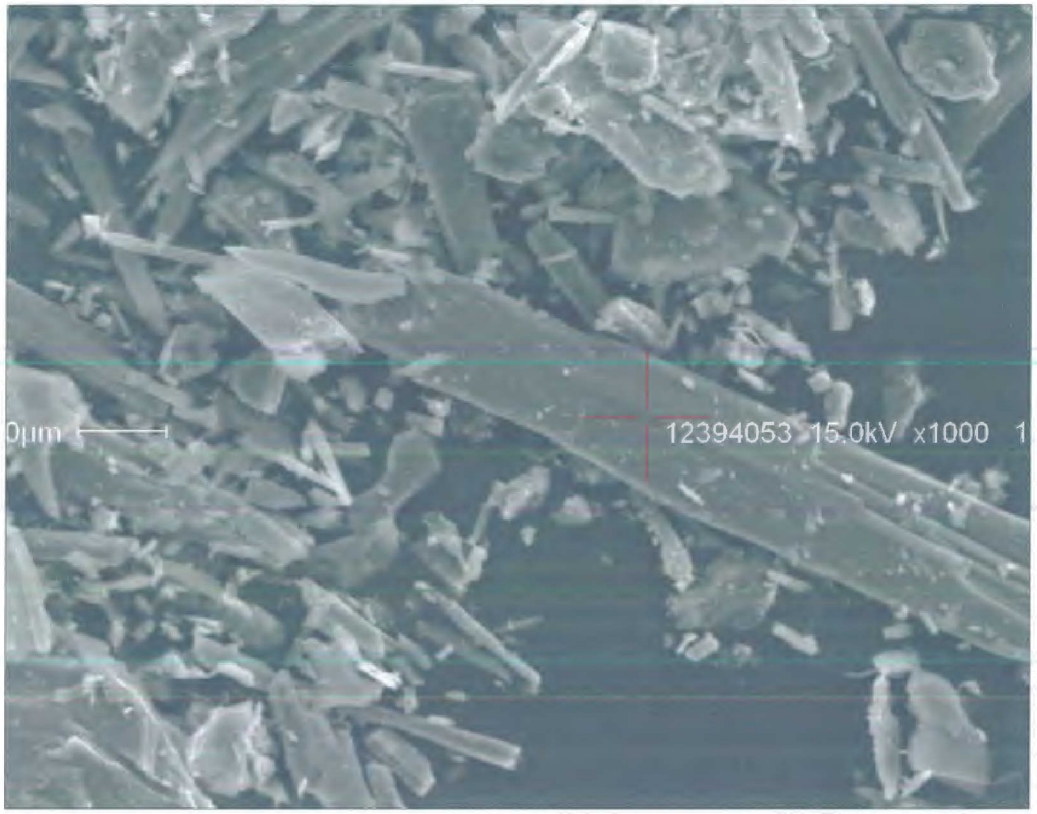
Element	Wt%	At%
OK	36.83	53.26
MgK	13.33	12.69
AlK	1.95	1.67
SiK	25.73	21.20
CaK	12.23	7.06
FeK	9.93	4.11

C:\DOCUMENTS AND SETTINGS\LAB\MY DOCUMENTS\PROJECTS\BURLINGTON HILL\12394051E.SPC

kV:15.0 Tilt:0.00 Tkoff:36.16 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 17170 LSec : 62.5 Prst:None 28-Nov-2012 10:54:50





SE1 10µm 1000x

EDS Quantitative Results

Element	Wt%	At%
OK	45.01	61.83
MgK	12.30	11.12
SiK	22.65	17.72
CaK	9.33	5.12
FeK	10.71	4.21

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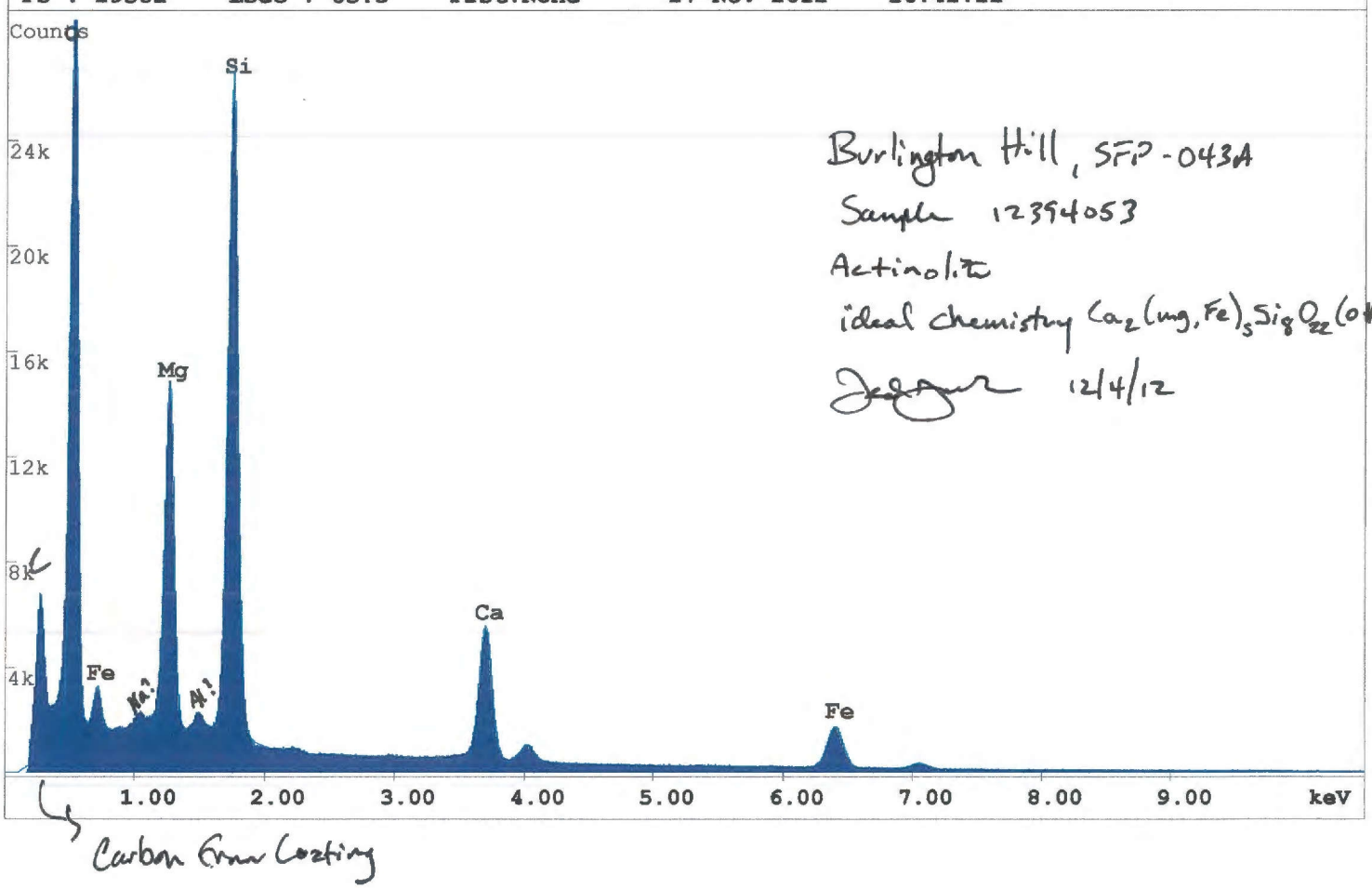
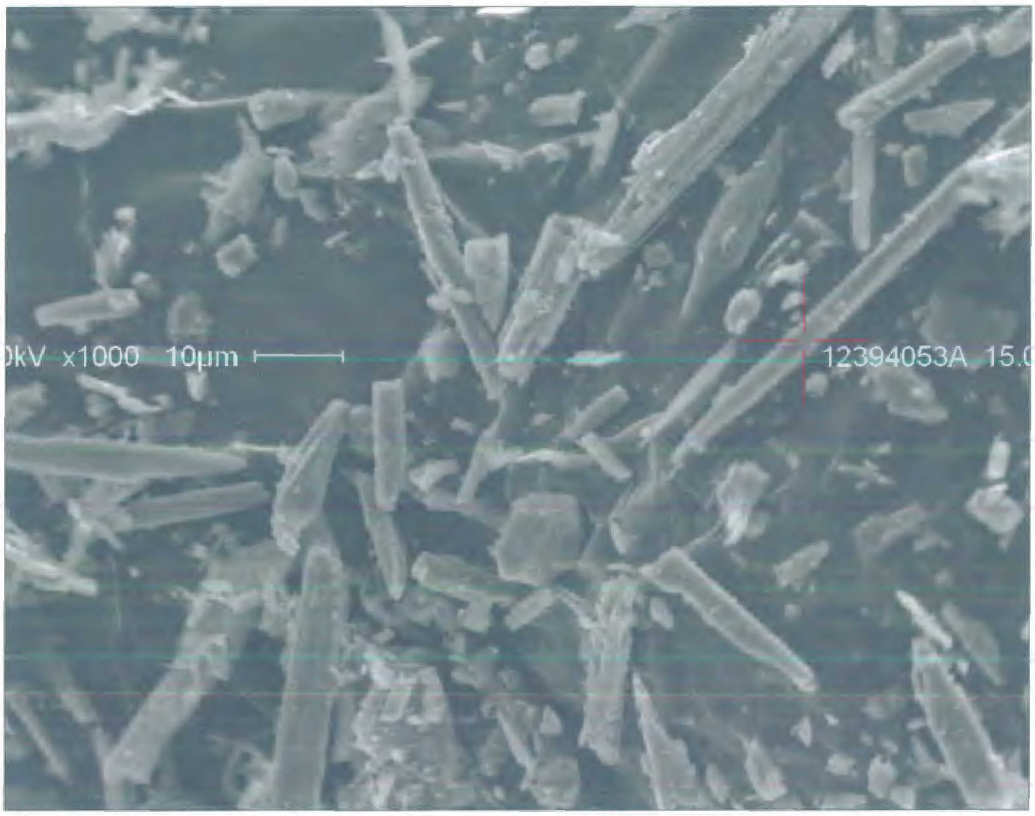
kV:15.0 Tilt:0.00 Tkoff:35.47 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 29582 LSec : 65.3 Prst:None 27-Nov-2012 16:42:22



Burlington Hill, SFP-043A
Sample 12394053
Actinolite
ideal chemistry $Ca_2(Mg,Fe)_5Si_8O_{22}(OH)_2$
12/4/12



SE1 10µm 1000x

EDS Quantitative Results

Element	Wt%	At%
OK	48.50	64.69
MgK	12.12	10.64
AlK	0.80	0.63
SiK	21.12	16.04
CaK	8.78	4.67
FeK	8.69	3.32

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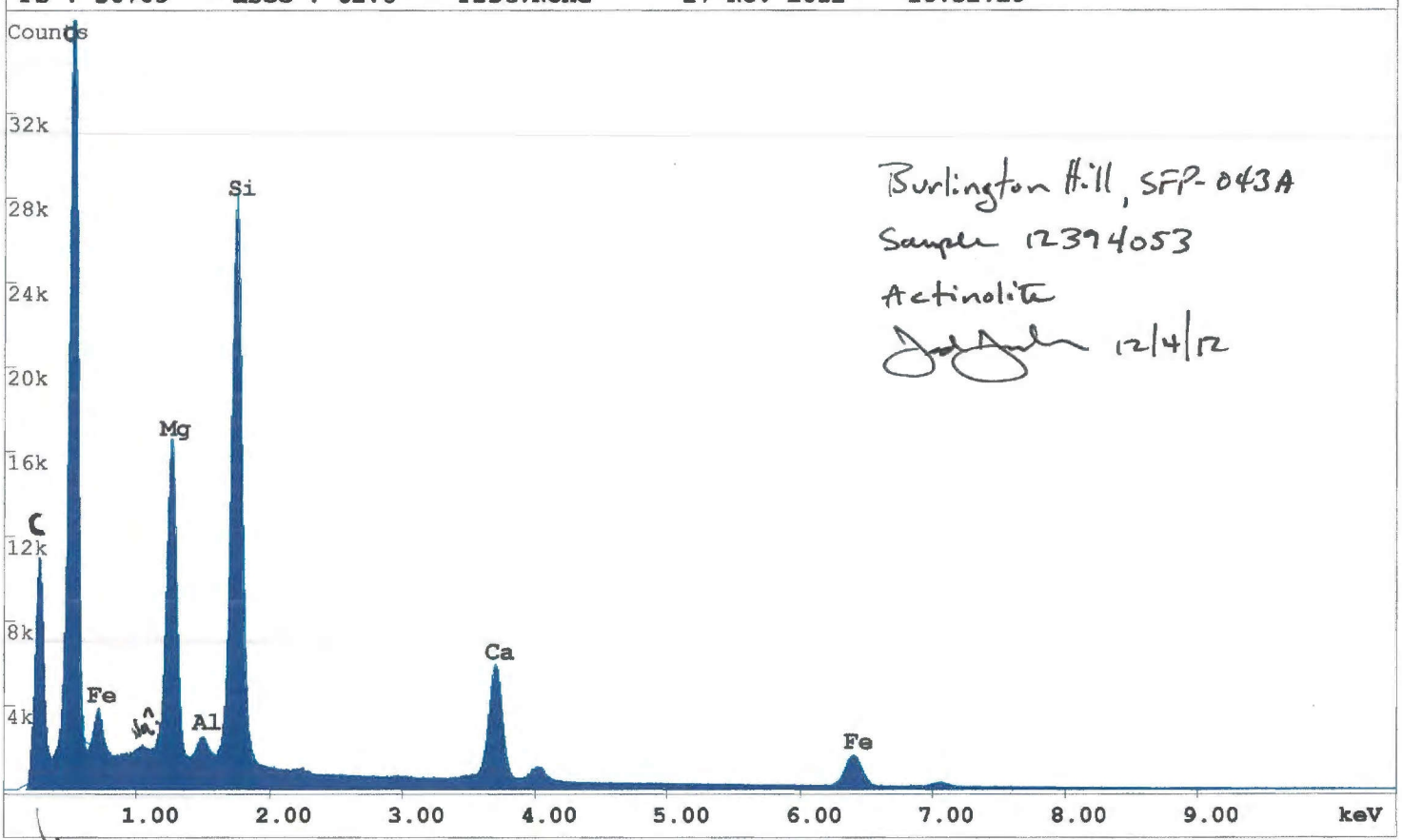
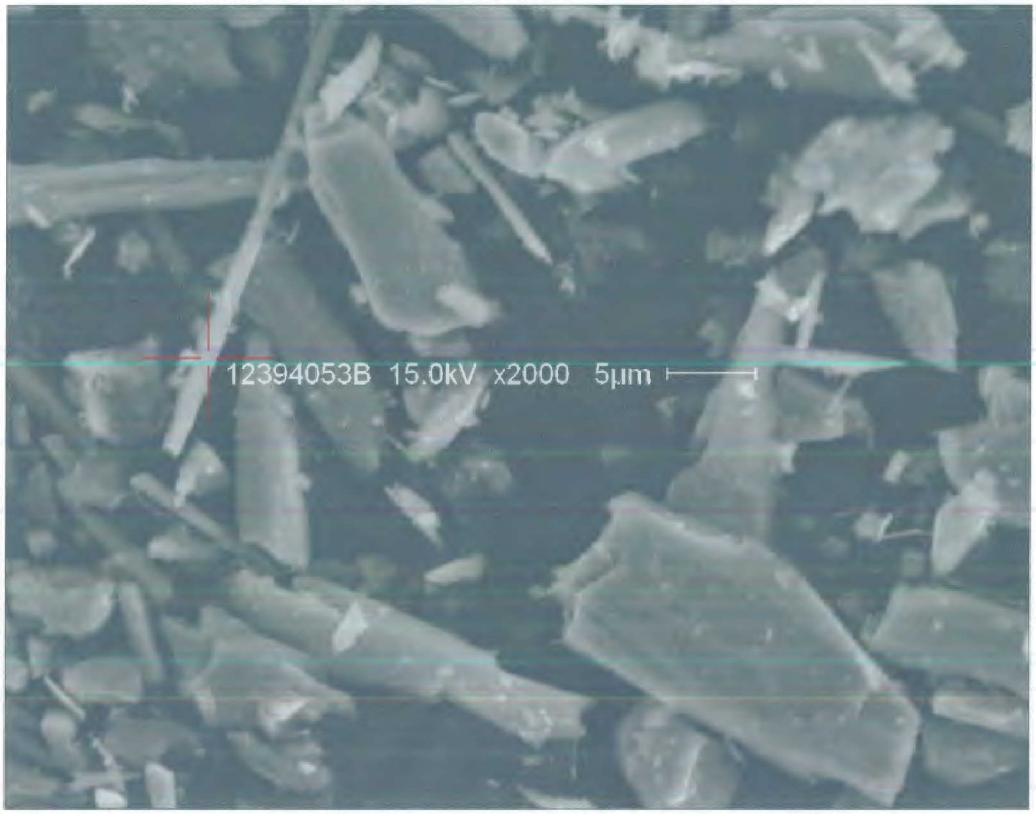
kV:15.0 Tilt:0.00 Tkoff:35.58 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 36709 LSec : 62.6 Prst:None 27-Nov-2012 16:52:29





SE1 5µm 2000x

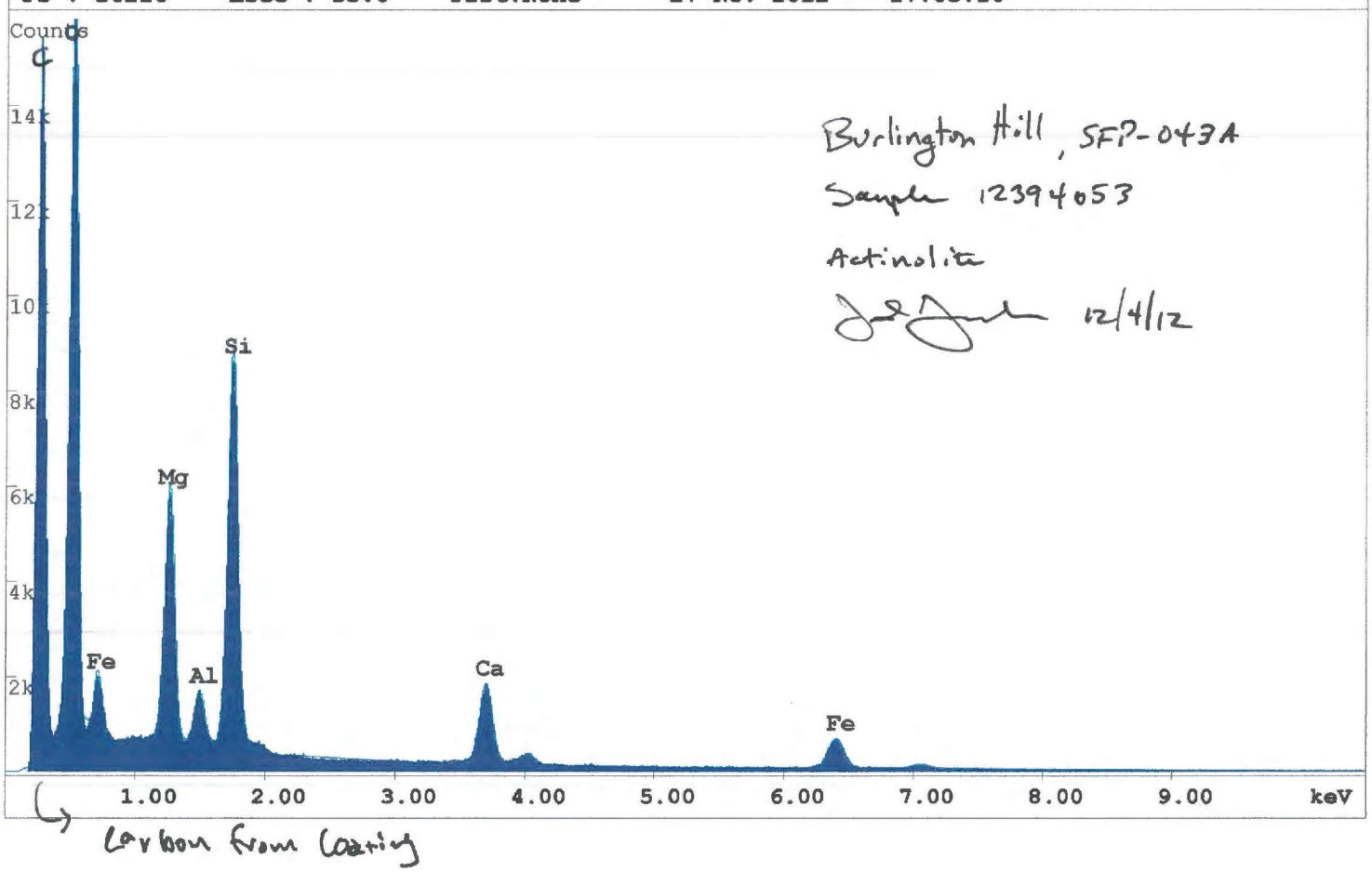
EDS Quantitative Results

Element	Wt%	At%
OK	51.27	67.33
MgK	11.63	10.05
AlK	2.49	1.94
SiK	17.78	13.30
CaK	7.12	3.73
FeK	9.71	3.65

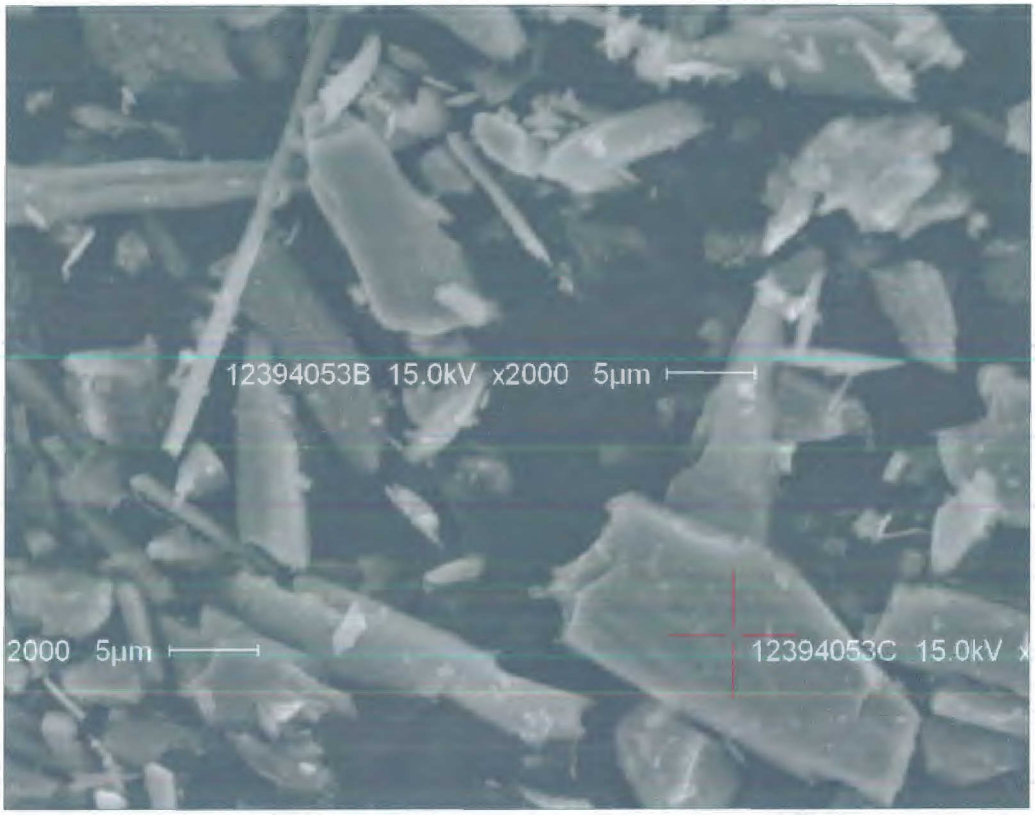
C:\DOCUMENTS AND SETTINGS\LAB\MY DOCUMENTS\PROJECTS\BURLINGTON HILL\12394053B.SPC

kV:15.0 Tilt:0.00 Tkoff:35.70 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 16210 LSec : 33.0 Prst:None 27-Nov-2012 17:03:30



Burlington Hill, SFP-043A
Sample 12394053
Actinolite
12/4/12



SE1 5µm 2000x

EDS Quantitative Results

Element	Wt%	At%
OK	44.71	61.30
MgK	12.79	11.54
SiK	23.18	18.10
CaK	9.54	5.22
FeK	9.77	3.84

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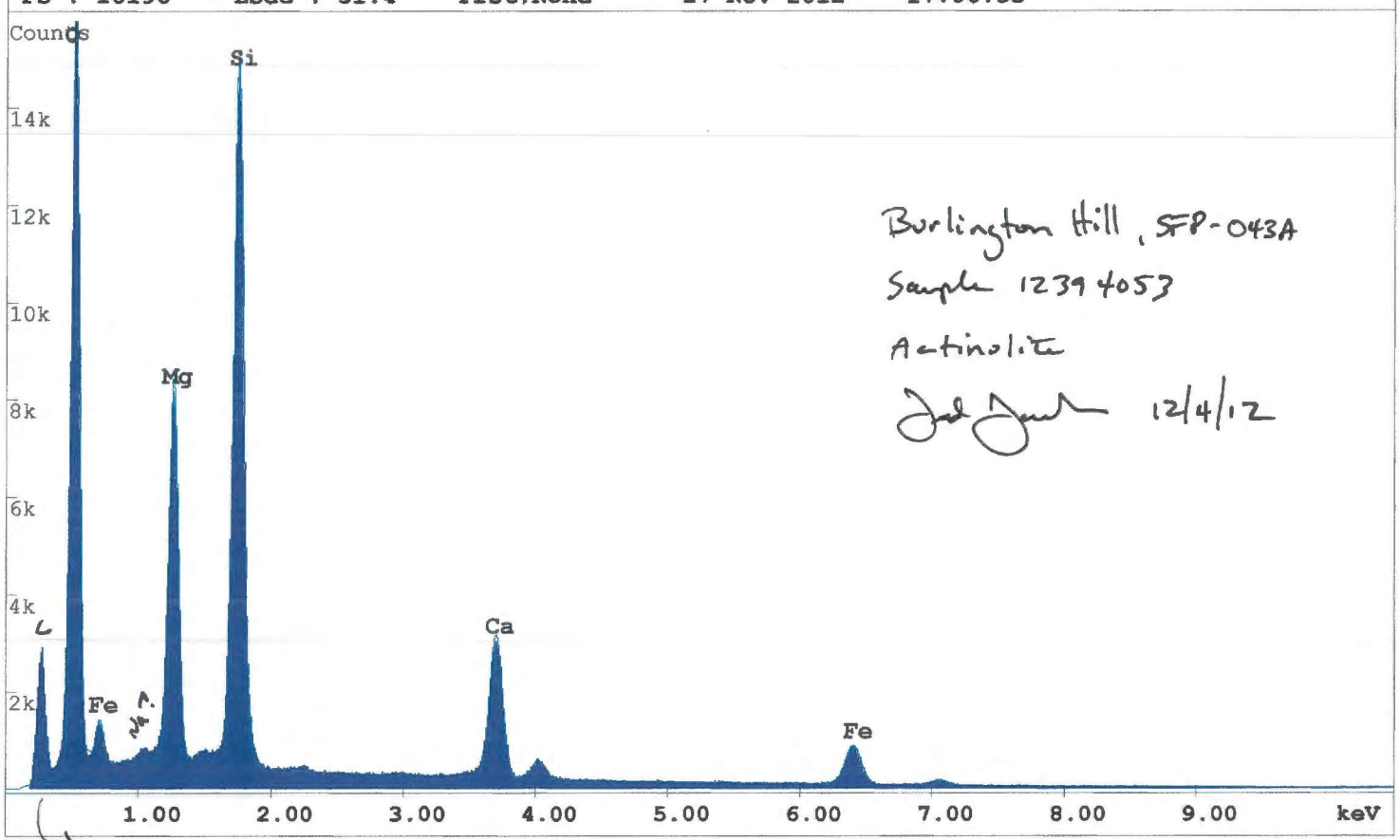
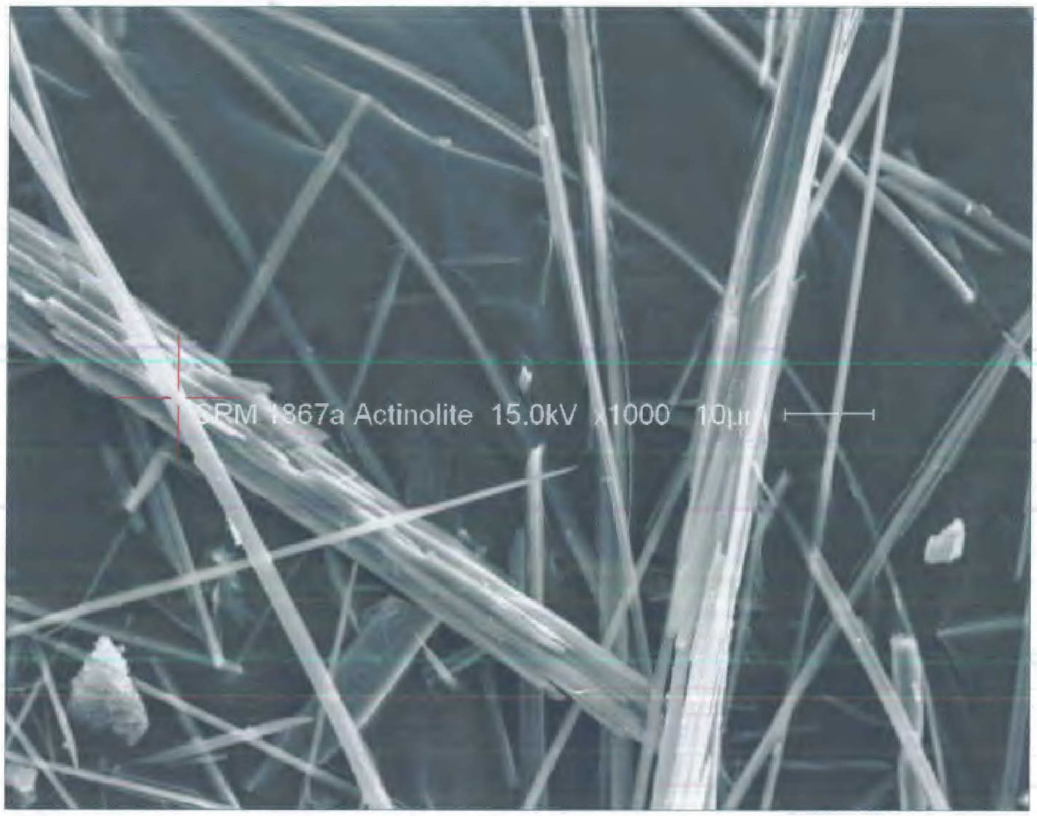
kV:15.0 Tilt:0.00 Tkoff:35.70 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 16190 LSec : 31.4 Prst:None 27-Nov-2012 17:06:55



Burlington Hill, SFP-043A
Sample 12394053
Actinolite
[signature] 12/4/12

Carbon from coating



SE1 10µm 1000x

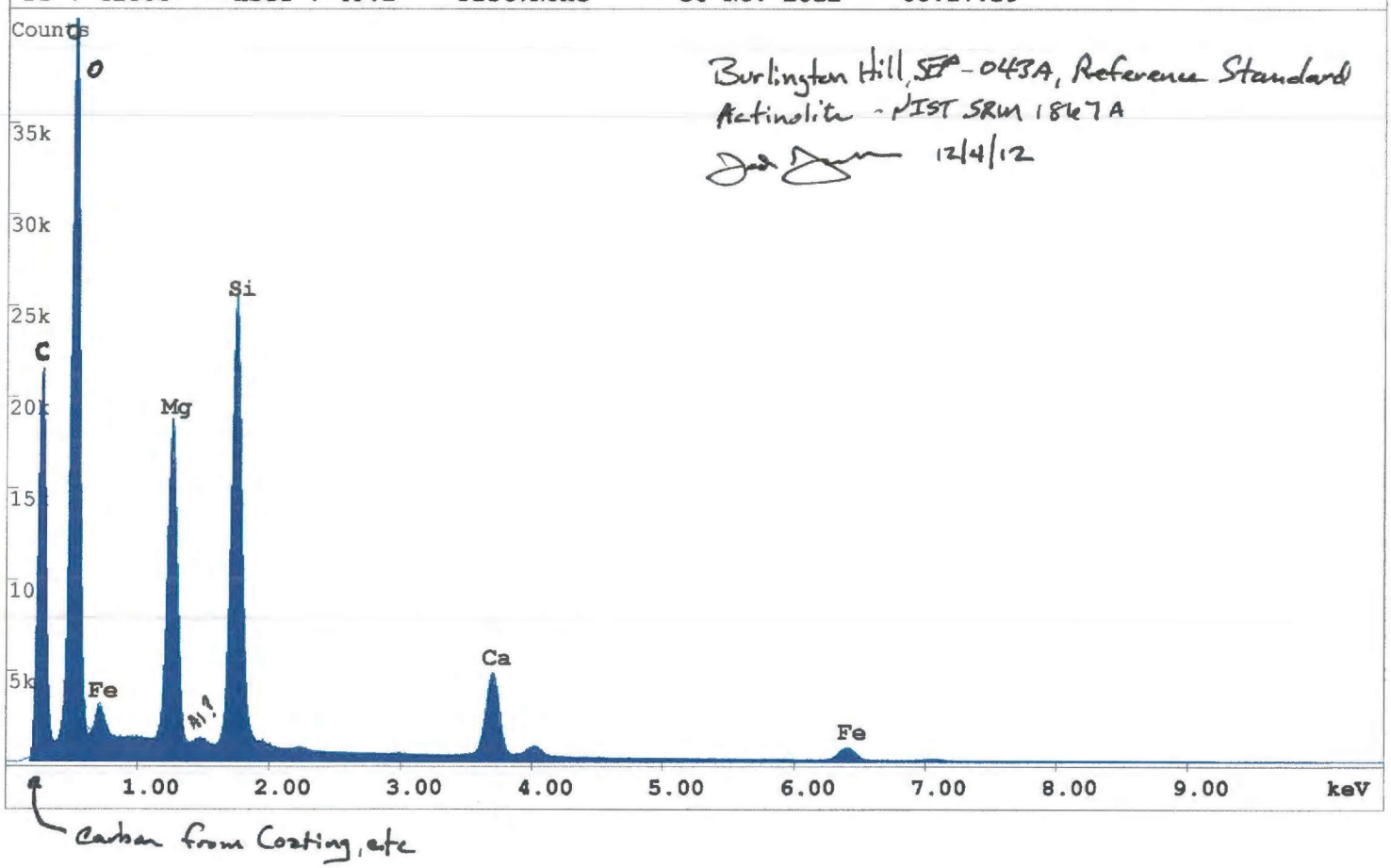
EDS Quantitative Results

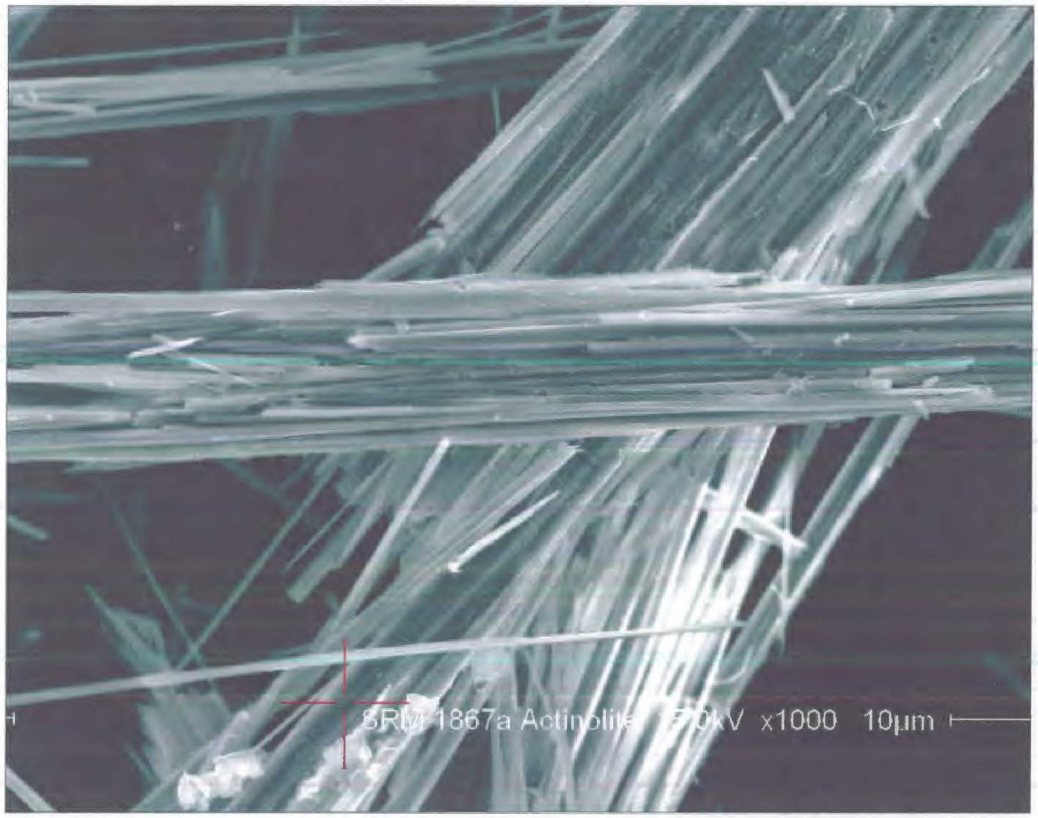
Element	Wt%	At%
OK	53.33	67.78
MgK	14.46	12.10
SiK	20.27	14.68
CaK	7.61	3.86
FeK	4.33	1.58

C:\DOCUMENTS AND SETTINGS\LAB\MY DOCUMENTS\PROJECTS\BURLINGTON HILL\SRM1867AACTINOLITE.SPC

kV:15.0 Tilt:0.00 Tkoff:34.88 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 41500 LSec : 69.2 Prst:None 30-Nov-2012 08:17:39





SE1 10µm 1000x

EDS Quantitative Results

Element	Wt%	At%
OK	39.61	55.35
MgK	15.82	14.55
SiK	26.48	21.07
CaK	11.37	6.34
FeK	6.73	2.69

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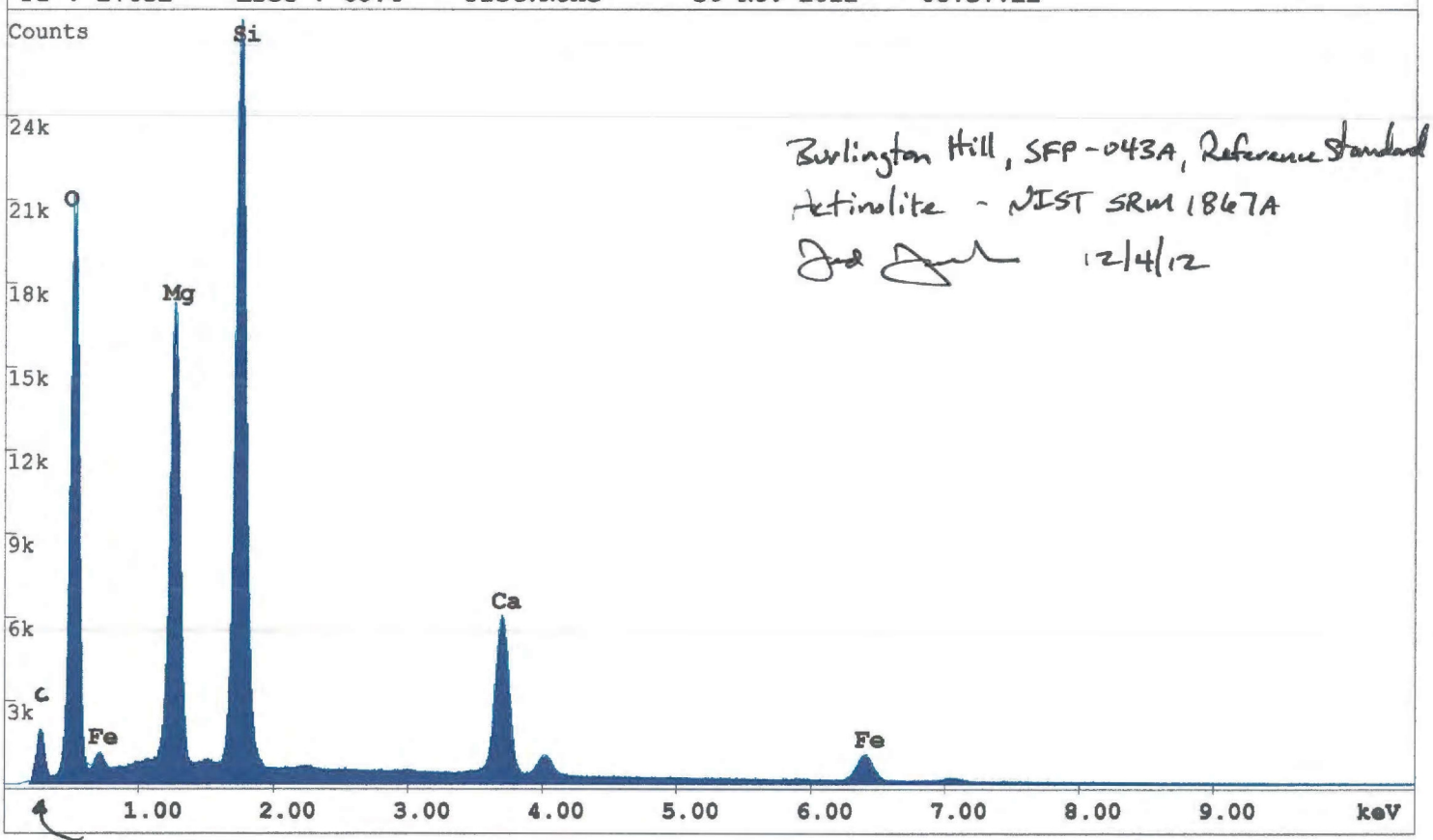
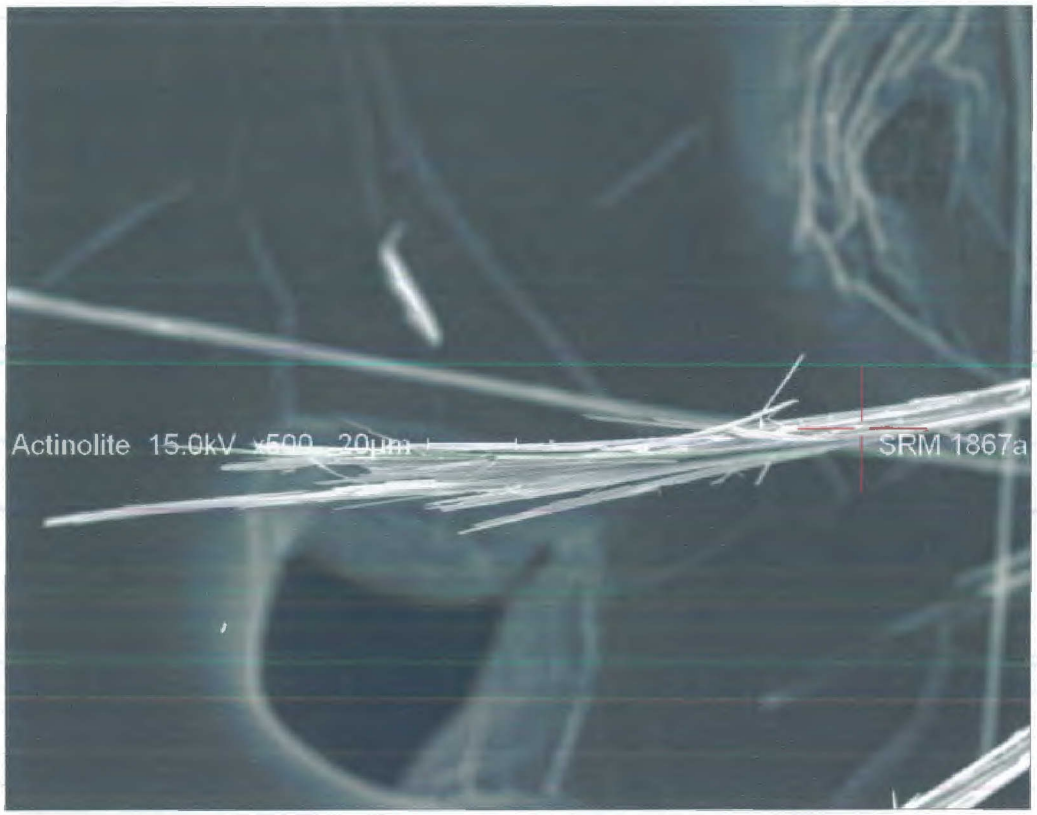
kV:15.0 Tilt:0.00 Tkoff:34.88 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 27652 LSec : 68.4 Prst:None 30-Nov-2012 08:37:22



Burlington Hill, SFP-043A, Reference Standard
Actinolite - NIST SRM 1867A
12/4/12

Carbon from coating, etc.



SE1 20µm 500x

EDS Quantitative Results

Element	Wt%	At%
OK	50.34	66.20
MgK	12.70	10.99
SiK	20.22	15.14
CaK	9.13	4.79
FeK	7.61	2.87

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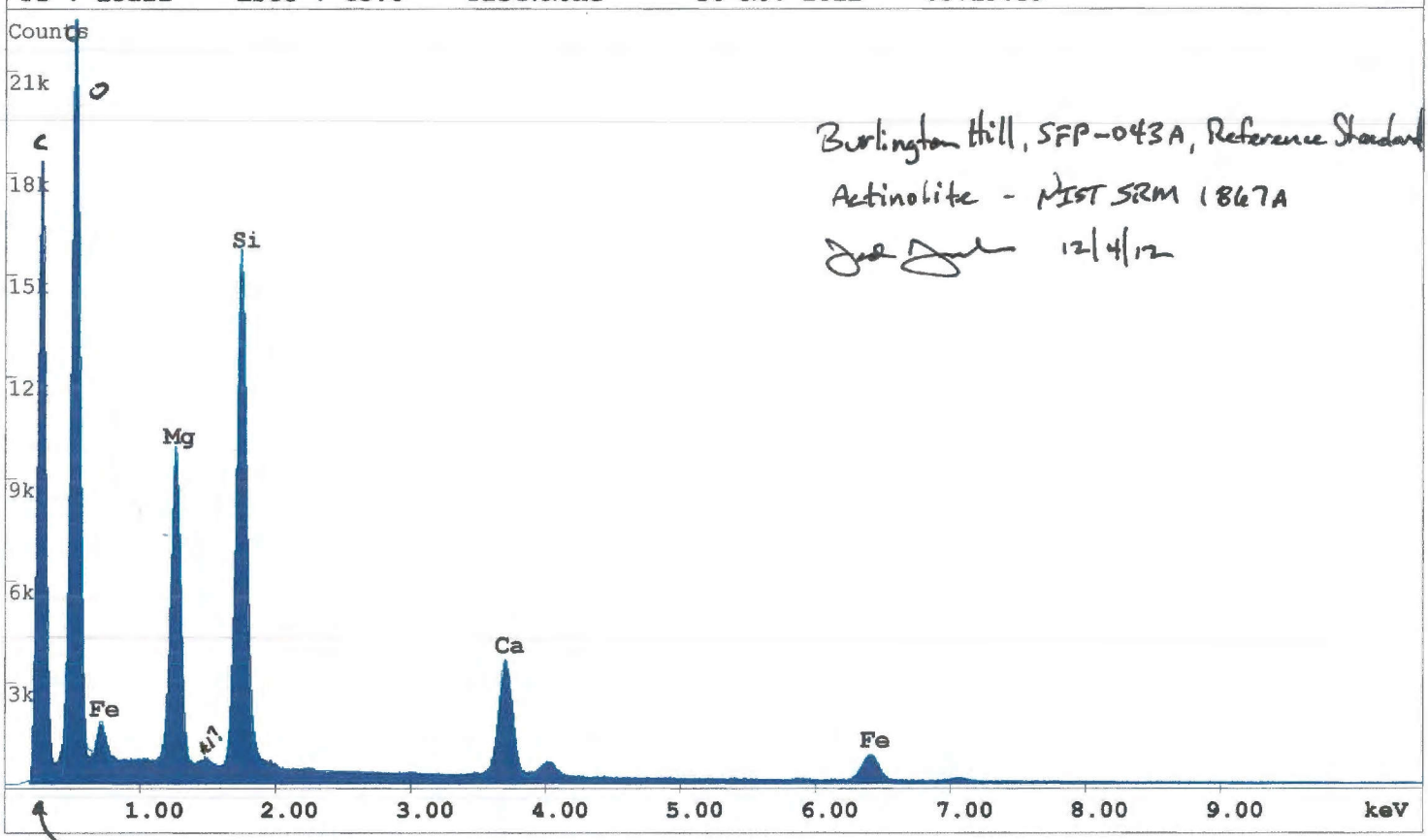
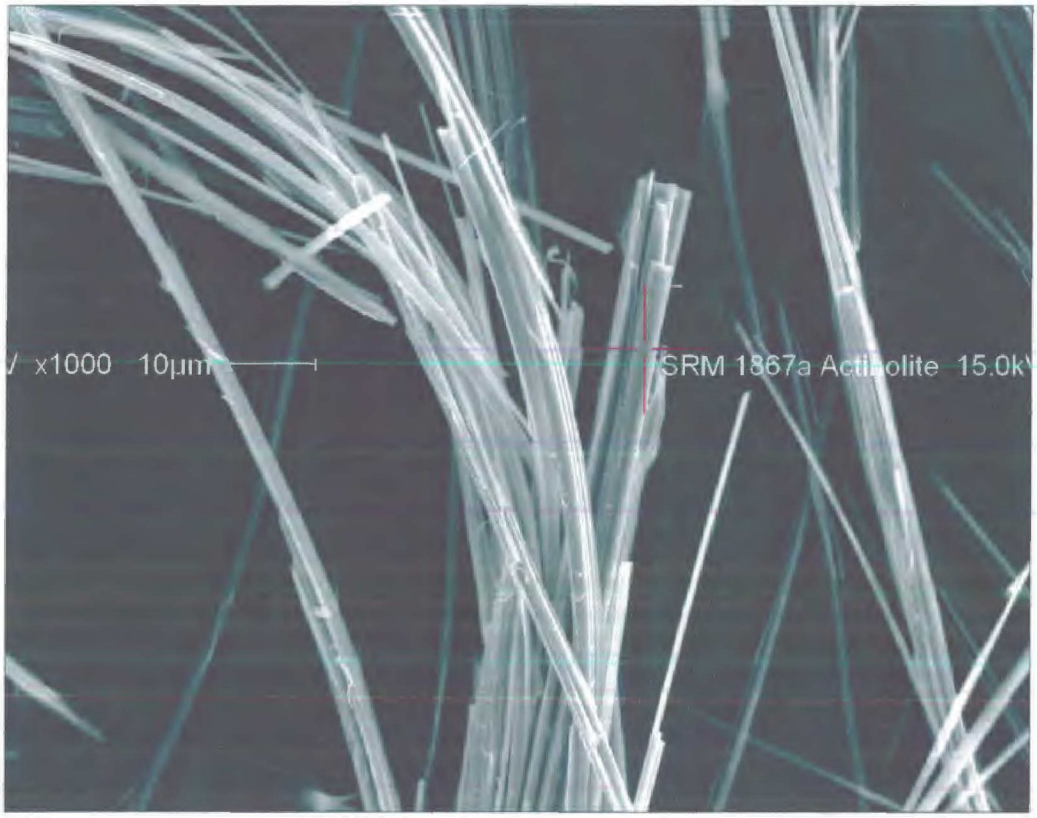
kV:15.0 Tilt:0.00 Tkoff:34.65 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 23221 LSec : 65.6 Prst:None 30-Nov-2012 08:29:39



Burlington Hill, SFP-043A, Reference Standard
Actinolite - NIST SRM 1867A
12/4/12

carbon from coating, etc.



SE1 10µm 1000x

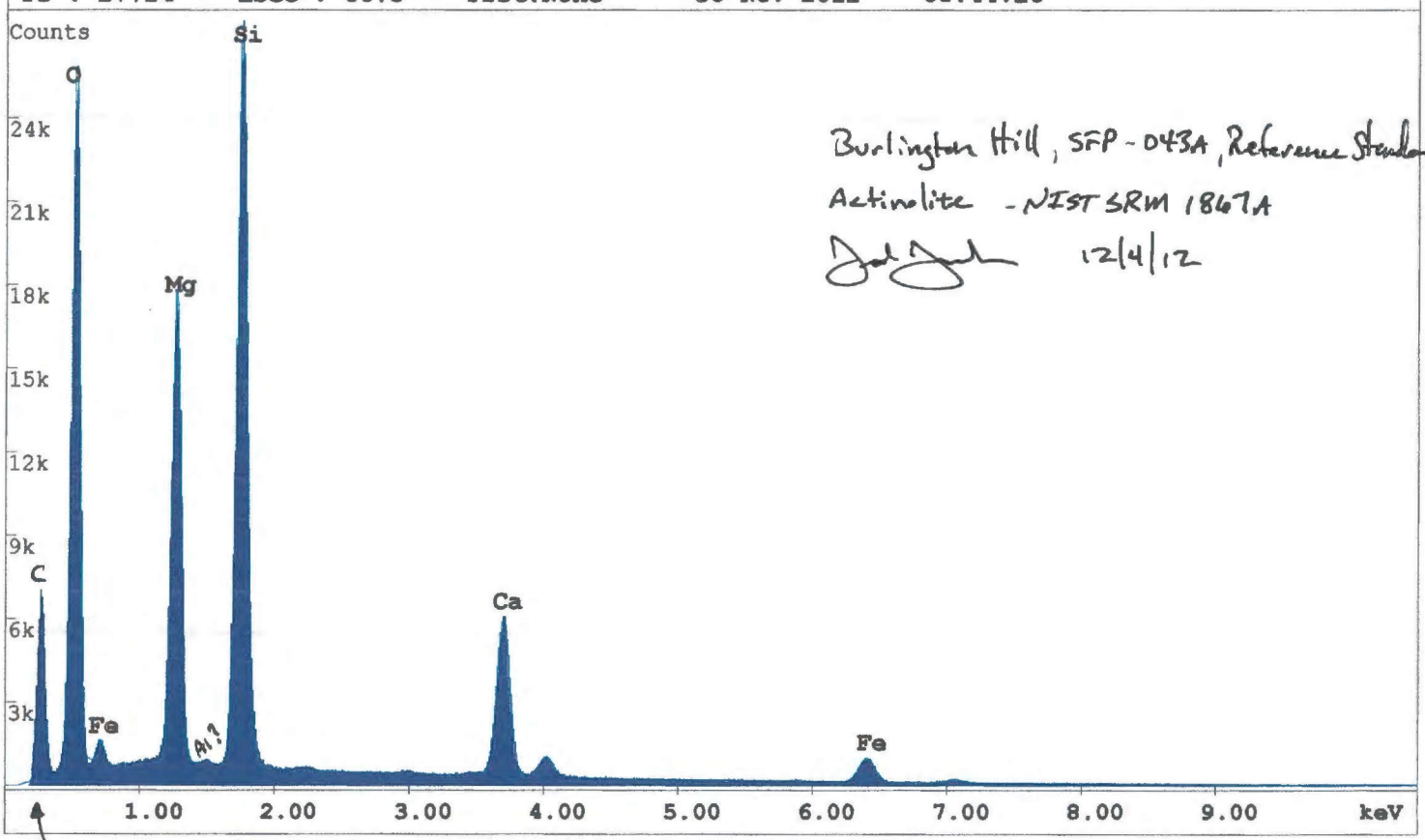
EDS Quantitative Results

Element	Wt%	At%
OK	43.39	59.03
MgK	15.37	13.76
SiK	24.65	19.11
CaK	10.63	5.77
FeK	5.96	2.32

C:\DOCUMENTS AND SETTINGS\LAB\MY DOCUMENTS\PROJECTS\BURLINGTON HILL\SRM1867AACTINOLITEC.SPC

kV:15.0 Tilt:0.00 Tkoff:34.88 Det:SUTW Reso:134.9 Amp.T:25.6

FS : 27714 LSec : 66.8 Prst:None 30-Nov-2012 08:44:26



Burlington Hill, SFP-043A, Reference Standard
Actinolite - NIST SRM 1867A
12/4/12

Carbon from Coating, etc.