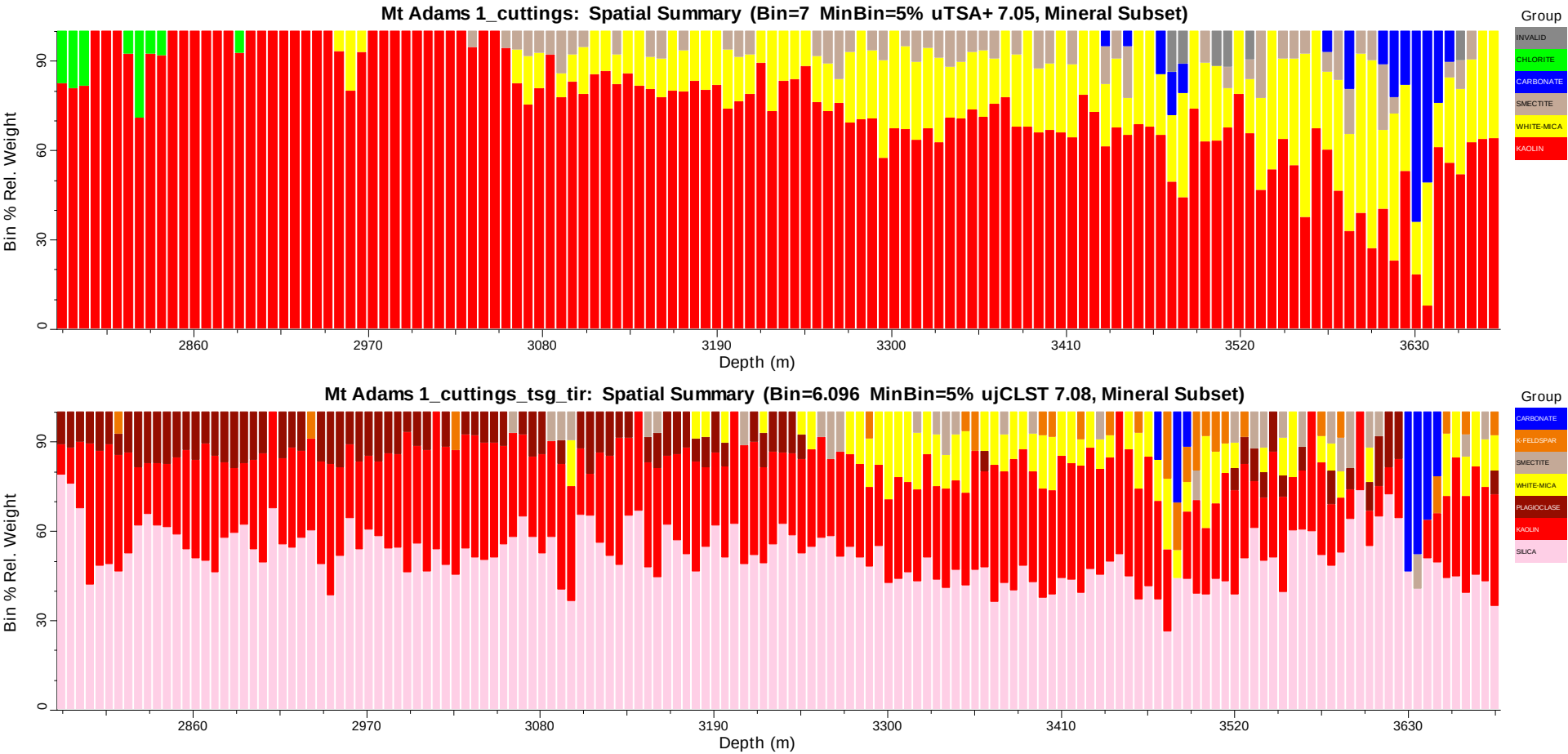
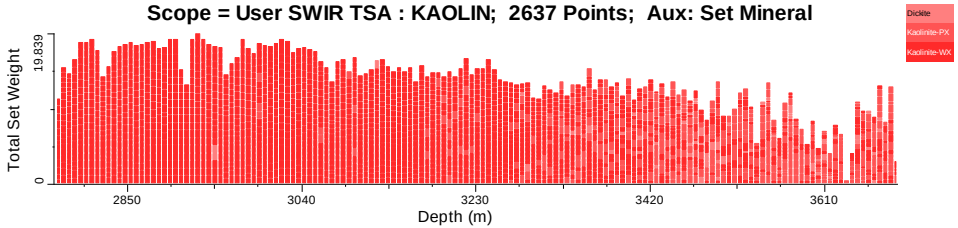
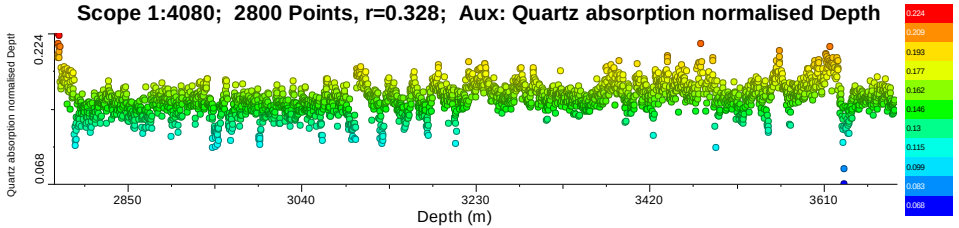
Mineralogy Summary

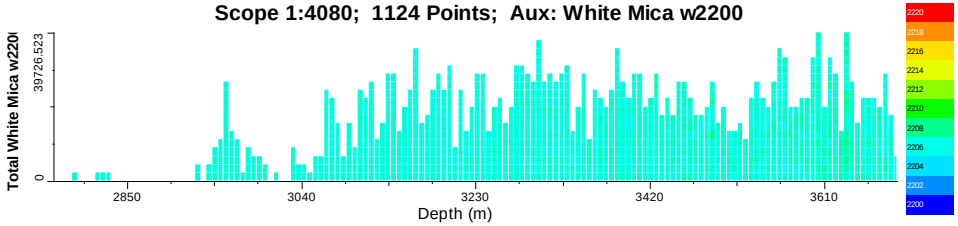
Drillhole: **Mt Adams 1** (cuttings)

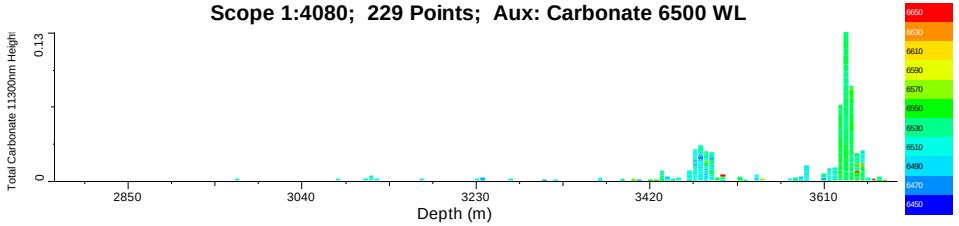
HyLogger-3
Process Level 2

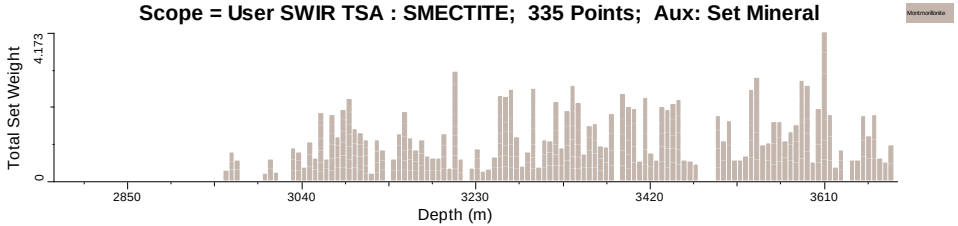

Mt Adams 1_cuttings: Spatial Summary (Bin=7 MinBin=5% uTSA+ 7.05, Mineral Subset)
Group
INVALID
CHLORITE
CARBONATE
SMECTITE
WHITE-MICA
KAOLIN
Bin % Rel. Weight
0
30
60
90
2860
2970
3080
3190
3300
3410
3520
3630
Depth (m)
Mt Adams 1_cuttings_tsg_tir: Spatial Summary (Bin=6.096 MinBin=5% ujCLST 7.08, Mineral Subset)
Group
CARBONATE
K-FELDSPAR
SMECTITE
WHITE-MICA
PLAGIOCLASE
KAOLIN
SILICA
Bin % Rel. Weight
0
30
60
90
2860
2970
3080
3190
3300
3410
3520
3630
Depth (m)

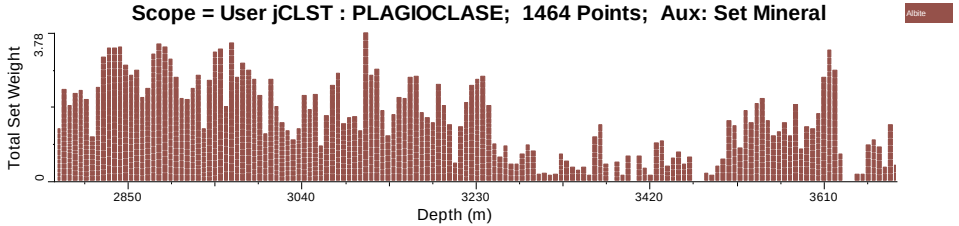

Scope = User SWIR TSA : KAOLIN; 2637 Points; Aux: Set Mineral
Total Set Weight
19.839
0
2850
3040
3230
3420
3610
Depth (m)
Dickite
Kaolinite-PX
Kaolinite-WX

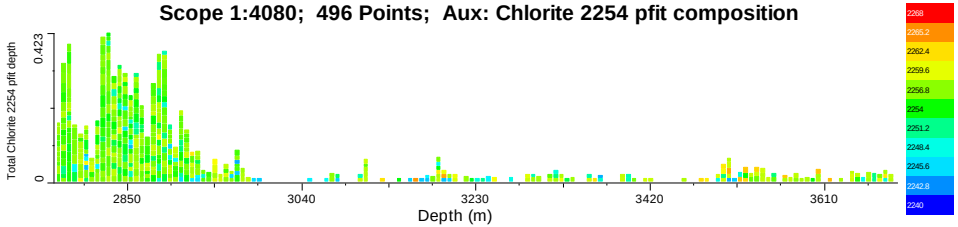

Scope 1:4080; 2800 Points, r=0.328; Aux: Quartz absorption normalised Depth
Quartz absorption normalised Depth
0.224
0.068
2850
3040
3230
3420
3610
Depth (m)

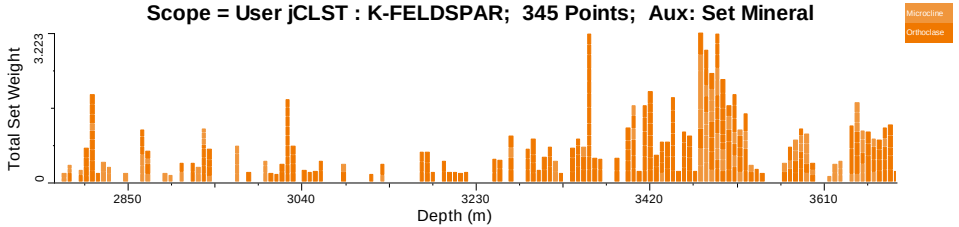

Scope 1:4080; 1124 Points; Aux: White Mica w2200
Total White Mica w220
39726.523
0
2850
3040
3230
3420
3610
Depth (m)


Scope 1:4080; 229 Points; Aux: Carbonate 6500 WL
Total Carbonate 11300nm Height
0.13
0
2850
3040
3230
3420
3610
Depth (m)


Scope = User SWIR TSA : SMECTITE; 335 Points; Aux: Set Mineral
Total Set Weight
4.173
0
2850
3040
3230
3420
3610
Depth (m)
Montmorillonite


Scope = User jCLST : PLAGIOCLASE; 1464 Points; Aux: Set Mineral
Total Set Weight
3.78
0
2850
3040
3230
3420
3610
Depth (m)
Albite


Scope 1:4080; 496 Points; Aux: Chlorite 2254 pfit composition
Total Chlorite 2254 pfit depth
0.423
0
2850
3040
3230
3420
3610
Depth (m)


Scope = User jCLST : K-FELDSPAR; 345 Points; Aux: Set Mineral
Total Set Weight
3.223
0
2850
3040
3230
3420
3610
Depth (m)
Microcline
Orthoclase

TERMINOLOGY	DESCRIPTION
TSG	The Spectral Geologist™ software package (and associated file format)
Process Level 1	Dataset processed with automated (System) mineral interpretations
Process Level 2	Dataset processed with geologist refined (User) mineral interpretations
VNIR	Visible-Near Infrared region (380-1000 nm)
SWIR	Short-wave Infrared region (1000-2500 nm)
TIR	Thermal Infrared region (6000-14500 nm)
Bin	Selected summary interval for plot (metres)
MinBin	Selected minimum spectral weight for plot (%)
Bin % Rel. Weight	Relative spectral weight % (normalized to 100 for minerals above minimum spectral weight)
sTSA+	System (process Level 1) TSA+ SWIR unmixing algorithm
uTSA+	User (process Level 2) TSA+ SWIR unmixing algorithm
sjCLST	System (process Level 1) jCLST TIR unmixing algorithm
ujCLST	User (process Level 2) jCLST TIR unmixing algorithm

TSA+ algorithm:
"The Spectral Assistant™ plus" - an improved TSA unmixing routine utilised in TSG. Identifies and estimates abundances of minerals from VNIR or SWIR spectra using linear modelling of in-built reference library mineral spectra. Default results are best-fit 1 to 3 mineral spectral models (Schodlok et al., 2016).

jCLST algorithm:
"Justified Constrained Least Squares" - an improved CLS unmixing routine utilised in TSG. Identifies and estimates abundances of minerals from TIR spectra using quadratic modelling of restricted sets of in-built reference library mineral spectra, guided by TSA results. Default results are best-fit 1 to 3 mineral spectral models (Schodlok et al., 2016).

Schodlok, MC, Whitbourn, L, Huntington, J, Mason, P, Green, A, Berman, M, Coward, D, Connor, P, Wright, W, Jolivet, M and Martinez, R 2016, HyLogger-3, a visible to shortwave and thermal infrared reflectance spectrometer system for drill core logging: functional description: Australian Journal of Earth Sciences, v. 63, no. 8, p. 929-940, doi:10.1080/08120099.2016.1231133