

# Sediment Smear Slide / Thin Section Description Sheet

Date: 6 March 2019

Expedition: 358

Observer: Mari

Site: C0002 Hole: T Core: 1K Sect.: 1 Interval: 21.5 cm

Sediment Name: Silty claystone Depth: 2836.715 m

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Other material	Percent Texture		
				Siliciclastic	Volcaniclastic	Pelagic		Sand	Silt	Clay
✓				✓				12	37	51

Select one and check.

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Percent	%	Composition
<b>Major Siliciclastic Grain Types</b>		
A		Quartz ✓
C		Feldspars ✓
A		Clay minerals ✓
<b>Lithic Grains</b>		
Sedimentary Lithics		
		Chert
A		Mudstone ✓
		Siltstone/sandstone
		Limestone
		Metamorphic lithic
		Plutonic lithic
<b>Volcaniclastic Grains</b>		
		Vitric fragments
C		Clear glass ✓
		Colored glass
		Pumice
		Volcanic lithics
		Felsitic
		Microclite
		Lathwork
		Altered volcanic (palagonite)

Percent	%	Composition
<b>Pelagic Grains</b>		
		Calcareous
		Nannofossils
		Foraminifers
		Siliceous
		Diatom
		Radiolarian
		Silicoflagellate
		Sponge Spicule
<b>Other bioclasts</b>		
		Mollusk
		Algae
		Echinoderm
		Benthic foraminifer
		Other bioclast (specify)
<b>Other carbonate allochems</b>		
		Peloid
		Intraclast
		Ooid
		Silt or sand-size carbonate allochem fragment (unspecified)
		Carbonate mud (apart from nannos)

Percent	%	Composition
<b>Minor Grain Types</b>		
E		Dense minerals ✓
C		Micas (biotite, musc, chl) ✓
		Glauconite
		Phosphate (bones, teeth, etc)
C		Opaque Grain ✓
		Marine organic matter
		Terrestrial organic matter
		Other (specify):
<b>Authigenic components</b>		
		Pyrite (framboids)
C		Pyrite (euhedral) ✓
		Pyrite (grain coating)
		Calcite
		Dolomite
R		Zeolites ✓
		Fe/Mn oxide
		Other (specify):

<sup>1</sup> List under remarks if possible

Fill percentage (Total must be 100).

Remarks: Needle-like zeolite, brown heavy mineral, Many lithic fragments due to lithification of sediment, 2 feldspar <sup>staurolite(?)</sup> mudstone.

\* This form is not designed for shallow water (neritic) carbonate sediments