

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	19	X	2	110	

Sediment/Rock Name	<i>mud.</i>	Observer	
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
0	50	45

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
50	Quartz
2	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
Accessory/trace minerals	
7	Micas
1	Biotite
	Muscovite
	Chlorite
30	Clay Minerals
	Glauconite
1	Ferromagnesian minerals
Authigenic minerals	
	Zeolite
	Pyrite
3	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
2	Nannofossils
	Pteropods
	Ostracodes
	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	19	X	4	37.	

Sediment/Rock Name	calc mud.	Observer	H. Havel.
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
1	40.	30.

coarse silt.

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
35.	Quartz
4	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
Accessory/trace minerals	
5	Micas
	Biotite
	Muscovite
	Chlorite
20	Clay Minerals <i>clumps.</i>
	Glauconite
3	Ferromagnesian minerals
4	<i>other dense</i>
Authigenic minerals	
	Zeolite
2.	Pyrite
4	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
2	Foraminifera
5.	Nannofossils
	Pteropods
1	Ostracodes
4	Bioclast (undifferentiated)
6	<i>Calc. Sponge</i>
2.	<i>tunicate spicules</i>
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
2	Sponge spicules
2.	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

25



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	6	19	X	4	42	

Sediment/Rock Name	<i>med.</i>	Observer	<i>H. Lever.</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
0	45	50

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
35	Quartz
3	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
Accessory/trace minerals	
4	Micas
2	Biotite
	Muscovite
	Chlorite
40	Clay Minerals
	Glauconite
3	Ferromagnesian minerals
2	<i>Heavy</i>
Authigenic minerals	
	Zeolite
	Pyrite
2	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
3	Nannofossils
	Pteropods
	Ostracodes
	Bioclast (undifferentiated)
2	<i>Star spic</i>
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	19	X	CC	10	10

Sediment/Rock Name	<i>sandy calc mud</i>	Observer	<i>Flane</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
20	40	15

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
35	Quartz
5	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
Accessory/trace minerals	
4	Micas
4	Biotite
	Muscovite
1	Chlorite
10	Clay Minerals
2	Glaucanite
3	Ferromagnesian minerals
2	<i>other dense</i>
Authigenic minerals	
	Zeolite
6	Pyrite <i>framboids + altered frags</i>
1	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
3	Foraminifera
8	Nannofossils
	Pteropods
	Ostracodes
10	Bioclast (undifferentiated) <i>songskied too</i>
3	<i>Calc. Sponge tunicate spicules</i>
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	20	X	2	87	

Sediment/Rock Name	<i>mud.</i>
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Observer	<i>H. Lane</i>
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SMEAR	Thin Sect
<input checked="" type="checkbox"/>	

Dominant	Minor
	<input checked="" type="checkbox"/>

Percent Texture		
Sand	Silt	Clay
	<i>48.</i>	<i>50.</i>

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
<i>40</i>	Quartz
<i>2</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
<i>8</i>	Micas
	Biotite
	Muscovite
	Chlorite
<i>40</i>	Clay Minerals
	Glauconite
<i>1</i>	Ferromagnesian minerals
<i>1</i>	<i>other dense</i>
	Authigenic minerals
	Zeolite
<i>4</i>	Pyrite
<i>1</i>	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
<i>1</i>	Nannofossils
	Pteropods
	Ostracodes
	Bioclast (undifferentiated)
	<i>Calc. Sponge</i>
	<i>tunicate spicules</i>
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	20	X	6	100	

Sediment/Rock Name	<i>mud.</i>	Observer	<i>Lever.</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
10	65.	15

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
55	Quartz
3	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
6	Rock fragments
	Volcanic glass
Accessory/trace minerals	
5	Micas
2	Biotite
	Muscovite
1	Chlorite
8.	Clay Minerals
	Glauconite
4	Ferromagnesian minerals
6	<i>other dense</i>
Authigenic minerals	
	Zeolite
2	Pyrite <i>limboids</i>
6	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
1	Foraminifera
3	Nannofossils
	Pteropods
	Ostracodes
3	Bioclast (undifferentiated)
2.	<i>Calc. Sponge</i>
1	<i>truncate spicules</i>
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1351	B	21	X	1	102	102

Sediment/Rock Name	<i>Silt</i>	Observer	<i>KMN</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
<i>10</i>	<i>80</i>	<i>10</i>

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
<i>20</i>	Quartz
<i>20</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>10</i>	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
<i>2</i>	Biotite
<i>3</i>	Muscovite
<i>3</i>	Chlorite
<i>10</i>	Clay Minerals
	Glauconite
<i>1</i>	Ferromagnesian minerals
<i>6</i>	<i>other detrit</i>
	Authigenic minerals
	Zeolite
	Pyrite <i>- authigenic</i>
<i>20</i>	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>5</i>	Foraminifera
	Nannofossils
	Pteropods
	Ostracodes
	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	41351	B	21	X	2	73	73

Sediment/Rock Name	<i>mud</i>	Observer	<i>KMM</i>
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SMEAR	Thin Sect
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant	Minor
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Percent Texture		
Sand	Silt	Clay
<i>fr</i>	<i>50</i>	<i>50</i>

MAD 1.4% Carb

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
<i>10%</i>	Quartz
<i>20%</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
Accessory/trace minerals	
	Micas
<i>fr</i>	Biotite
<i>10</i>	Muscovite
<i>1</i>	Chlorite
<i>53</i>	Clay Minerals
	Glauconite
	Ferromagnesian minerals
<i>5</i>	<i>other dense</i>
Authigenic minerals	
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
	Nannofossils
	Pteropods
	Ostracodes
<i>1%</i>	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1351	B	21	X	5	102	102

Sediment/Rock Name	<i>mud</i>	Observer	<i>Kmn</i>
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SMEAR	Thin Sect
<i>X</i>	

Dominant	Minor
<i>✓</i>	

Percent Texture		
Sand	Silt	Clay
	<i>50</i>	<i>50</i>

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
<i>20</i>	Framework minerals
<i>20</i>	Quartz
	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
	Biotite
<i>5</i>	Muscovite
<i>2</i>	Chlorite
<i>50</i>	Clay Minerals
	Glauconite
<i>8</i>	Ferromagnesian minerals
<i>3</i>	<i>other dense</i>
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>1</i>	Foraminifera
<i>tr</i>	Nannofossils
	Pteropods
	Ostracodes
<i>tr</i>	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	41351	B	21	X	5	113	

Sediment/Rock Name	<i>Calcareous mud (calcareous)</i>	Observer	KMN
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SMEAR	Thin Sect
✓	

Dominant	Minor
	✓

Percent Texture		
Sand	Silt	Clay
1	50	50

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
10	Quartz
10	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
Accessory/trace minerals	
10	Micas (<i>biot. musc.</i>)
	Biotite
	Muscovite
	Chlorite
40	Clay Minerals
	Glauconite
1	Ferromagnesian minerals
Authigenic minerals	
	Zeolite
	Pyrite
1	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
5	Foraminifera
10	Nannofossils
	Pteropods
	Ostracodes
10	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1351	B	21	X	CC	22	

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Sediment/Rock Name	<i>reddish mud</i>	Observer	<i>KMM</i>
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SMEAR	Thin Sect	Dominant	Minor
✓			✓

Percent Texture		
Sand	Silt	Clay
5	50	50

CHNS

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
<i>5</i>	Quartz
<i>5</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
<i>5</i>	Micas
	Biotite
	Muscovite
	Chlorite
<i>30</i>	Clay Minerals
	Glauconite
<i>3</i>	Ferromagnesian minerals
<i>5</i>	<i>Other</i>
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>2</i>	Foraminifera
<i>10</i>	Nannofossils
	Pteropods
	Ostracodes
<i>35</i>	Bioclast (undifferentiated) <i>all types</i>
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1351	B	22	X	1	94	

Sediment/Rock Name	Mud to (calcareous) to mud	Observer	KMM
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
5	65	30

at 2 13/14 46%

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
10	Quartz
10	Feldspar (undifferentiated) } split
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
Accessory/trace minerals	
8	Micas
	Biotite
	Muscovite
	Chlorite
30	Clay Minerals
tr	Glauconite
2	Ferromagnesian minerals
5	other dense
Authigenic minerals	
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
5	Foraminifera
10	Nannofossils
	Pteropods
	Ostracodes
20	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U1351	B	22	X	1	135	

Sediment/Rock Name	<i>mud</i>	Observer	<i>Km</i>
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SMEAR	Thin Sect
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant	Minor
<input type="checkbox"/>	<input checked="" type="checkbox"/>

Percent Texture		
Sand	Silt	Clay
<i>0</i>	<i>30</i>	<i>70</i>

Macl? Sampling deferred

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
<i>? 10</i>	Quartz
<i>? 10</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
Accessory/trace minerals	
<i>10</i>	Micas
	Biotite
	Muscovite
	Chlorite
<i>70</i>	Clay Minerals
	Glauconite
	Ferromagnesian minerals
Authigenic minerals	
	Zeolite
	Pyrite
<i>2</i>	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
<i>2</i>	Nannofossils
	Pteropods
	Ostracodes
<i>2</i>	Bioclast (undifferentiated) <i>† tunicate spico.</i>
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
<i>tr</i>	Organic debris
<i>tr</i>	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U13151	B	25	X	1	60	

Sediment/Rock Name	Mud	Observer	
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SMEAR	Thin Sect
X	

Dominant	Minor
X	

Percent Texture		
Sand	Silt	Clay
5	450	50

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
20	Quartz
15	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
Accessory/trace minerals	
6	Micas
	Biotite
5	Muscovite
5	Chlorite
50	Clay Minerals
1	Glauconite
2	Ferromagnesian minerals
3	other dense
Authigenic minerals	
	Zeolite
tr	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

at 61/62 1% Carb

Percent	Component
BIOGENIC GRAINS	
Calcareous	
tr	Foraminifera
tr	Nannofossils
	Pteropods
	Ostracodes
tr	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

glacial flour

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U13151	B	25	X	3	44	

Sediment/Rock Name	<i>marly shell hash</i>	Observer	<i>KMM</i>
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SMEAR	Thin Sect
<input checked="" type="checkbox"/>	

Dominant	Minor
	<input checked="" type="checkbox"/>

Percent Texture		
Sand	Silt	Clay

Suit 2 53/54 40% carb Not relevant

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
<i>5</i>	Quartz
<i>5</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
<i>tr</i>	Micas
	Biotite
	Muscovite
	Chlorite
<i>15</i>	Clay Minerals
<i>3</i>	Glauconite
<i>tr</i>	Ferromagnesian minerals
<i>tr</i>	<i>other dense</i>
	Authigenic minerals
	Zeolite
	Pyrite
<i>3</i>	Opaque minerals (undifferentiated)
<i>25</i>	Fe-oxide
<i>tr</i>	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
<i>40</i>	Foraminifera
<i>10</i>	Nannofossils
	Pteropods
	Ostracodes
<i>30</i>	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U13151	B	27X2			75	

Sediment/Rock Name	<i>Silt</i>	Observer	<i>KMN</i>
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
<i>5</i>	<i>75</i>	<i>20</i>

76/77

1% Calc

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
<i>30</i>	Quartz
<i>30</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
	Micas
<i>1</i>	Biotite
<i>10</i>	Muscovite
<i>3</i>	Chlorite
<i>20</i>	Clay Minerals <i>Syed</i>
	Glauconite
	Ferromagnesian minerals
<i>ND 7</i>	<i>Other dense</i>
	Authigenic minerals
	Zeolite
	Pyrite
	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
	Foraminifera
<i>tr</i>	Nannofossils
	Pteropods
	Ostracodes
<i>tr</i>	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
<i>tr</i>	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

Very fine minerals! Glacial flour?

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U13151	B	27	X	3	110	

Sediment/Rock Name	<i>B</i> BLM mud with authigenic carbonate	Observer	KMM
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SMEAR	Thin Sect
<input checked="" type="checkbox"/>	

Dominant	Minor
.	<input checked="" type="checkbox"/>

Percent Texture		
Sand	Silt	Clay
5	55	40 40

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
	Framework minerals
5	Quartz
5	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
	Accessory/trace minerals
5	Micas (<i>all</i>)
	Biotite
	Muscovite
	Chlorite
15 BLM	Clay Minerals
	Glauconite
3	Ferromagnesian minerals
2	<i>other dense</i>
	Authigenic minerals
	Zeolite
	Pyrite
3	Opaque minerals (undifferentiated)
35 40 BLM	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
	Calcareous
5	Foraminifera
15 BLM	Nannofossils
	Pteropods
	Ostracodes
8 10	Bioclast (undifferentiated)
	Siliceous
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
	Others
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

*Nannos are recrystallized
ferrop. mat*

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	413151	B	27	X	CC	10	

Sediment/Rock Name	<i>Silt</i>
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Observer	<i>KMM</i>
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SMEAR	Thin Sect
<input checked="" type="checkbox"/>	

Dominant	Minor
	<input checked="" type="checkbox"/>

Percent Texture		
Sand	Silt	Clay
<i>tr</i>	<i>90</i>	<i>10</i>

*whitish
#442
laminae*

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
<i>20 to 30</i>	Quartz
<i>25</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
<i>10</i>	Rock fragments
	Volcanic glass
Accessory/trace minerals	
Micas	
<i>3</i>	Biotite
<i>5</i>	Muscovite
<i>2</i>	Chlorite
<i>10</i>	Clay Minerals
<i>tr</i>	Glauconite
	Ferromagnesian minerals
<i>10</i>	<i>Other dense</i>
Authigenic minerals	
	Zeolite
<i>5</i>	Pyrite
<i>tr</i>	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
	Nannofossils
	Pteropods
	Ostracodes
	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	U13151	B	28	X	5	50	

Sediment/Rock Name	<i>mud</i>				Observer	<i>KMM</i>
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SMEAR	Thin Sect
<input checked="" type="checkbox"/>	

Dominant	Minor
<input checked="" type="checkbox"/>	

Percent Texture		
Sand	Silt	Clay
<i>5</i>	<i>60</i>	<i>35</i>

2% Carb

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
<i>15</i>	Quartz
<i>15</i>	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
	Rock fragments
	Volcanic glass
Accessory/trace minerals	
	Micas
	Biotite
<i>20</i>	Muscovite
<i>5</i>	Chlorite
<i>35</i>	Clay Minerals
<i>tr</i>	Glaucanite
<i>tr</i>	Ferromagnesian minerals
<i>10</i>	<i>other dense</i>
Authigenic minerals	
	Zeolite
	Pyrite
<i>tr</i>	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
<i>tr</i>	Foraminifera
<i>tr</i>	Nannofossils
	Pteropods
	Ostracodes
<i>tr</i>	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:

SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	3	29	X	3	100	

Sediment/Rock Name	mud.	Observer	H. Lane, Jr.
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SMEAR	Thin Sect
✓	

Dominant	Minor
✓	

Percent Texture		
Sand	Silt	Clay
3	45	40

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
45	Quartz
5	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
3	Rock fragments
	Volcanic glass
Accessory/trace minerals	
3	Micas
1	Biotite
	Muscovite
	Chlorite
20	Clay Minerals <i>clumps.</i>
1	Glauconite
2	Ferromagnesian minerals
3	Heavy
Authigenic minerals	
	Zeolite
	Pyrite
4	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
	Foraminifera
5	Nannofossils
	Pteropods
	Ostracodes
	Bioclast (undifferentiated)
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
	Sponge spicules
2	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments:



SEDIMENT SMEAR SLIDE & THIN SECTION WORKSHEET

Leg	Site	Hole	Core	Type	Sec	Interval (cm)	
						Top	Bottom
317	1351	B	30	X	1	70.	

Sediment/Rock Name	<i>glauconitic calc sandy mud</i>	Observer	<i>Leve</i>
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SMEAR	Thin Sect
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dominant	Minor
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Percent Texture		
Sand	Silt	Clay
15.	47.	15.

Percent	Component
SILICICLASTIC GRAINS/MINERAL	
Framework minerals	
36	Quartz
5	Feldspar (undifferentiated)
	K-feldspar (Orthoclase, Microcline...)
	Plagioclase
4	Rock fragments
	Volcanic glass
Accessory/trace minerals	
2	Micas
3	Biotite
	Muscovite
2	Chlorite
5	Clay Minerals
8	Glauconite
4	Ferromagnesian minerals
3	<i>other dense</i>
Authigenic minerals	
	Zeolite
6	Pyrite
+	Opaque minerals (undifferentiated)
	Fe-oxide
	Carbonate
	Micrite
	Others

Percent	Component
BIOGENIC GRAINS	
Calcareous	
8.	Foraminifera
4	Nannofossils
	Pteropods
	Ostracodes
10	Bioclast (undifferentiated) <i>sand sized shell frags</i>
	<i>Calc. Sponge</i>
	<i>tunicate spicules</i>
Siliceous	
	Radiolarians
	Diatoms
	Silicoflagellates
1	Sponge spicules
	Siliceous debris (undifferentiated)
Others	
	Dinoflagellates
	Pollen
	Organic debris
	Plant debris
	Bryozoans
	Echinoderm
	Fish remains (teeth, bones, scales)
	Bivalves
	Others

Comments: 77

23.

