

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 338

Observer: KLM

Site: C002

Core: 14X

Sept.: 2

Interval: 50

Sediment Name: silty sand

lighter base of sd

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment		Chemical Sediment		Percent Texture	
Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Sand	Clay
✓				70	30

Select one and check.

Percent	Composition
	Siliciclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
25	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Graing
	Sideritic Graing

Percent	Composition	Percent
	Others	
	Gypsiferous Grain	
	Calcareous Grain	F
	Sapropelic Grain	
	Min Nodules/ Crusts	F
	Pyrite Grain	3
	Opaque Grain	

Select one and check.

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 238

Observer: KLM

Site: 6002 Hole: L Core: 14X Sect.: 4

Interval: 14

Sediment Name: silty clay

(dark, dom. lithal)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Percent Texture		
Sand	Silt	Clay
2	40	58

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliciclastic Grain
	Minerals
46	Quartz
	Feldspars
F	Micas
	Ferromagnesian Minerals
	Glauconite
50	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
3	Nannofossils
	Foraminifers
F	Siliceous Grain
	Diatom
E	Radiolarians
	Silicoflagellates
1	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 17-26-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L Core: 14X Sect.: L

Interval: 16

Sediment Name: silty clay (lighter minor lithol)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	20	80

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
25	Quartz
15	Feldspars
	Micas
	Ferromagnesian Minerals
60	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
15	Nannofossils
	Foraminifers
	Siliceous Grain
1	Diatom
1	Radiolarians
1	Silicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 338

Observer: KLM

Site: C0002

Hole: L

Core: 15Y

Sect.: 2

Interval: 29

Sediment Name:

Silty clay (dom. lithol.)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	25	75

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Select one and check.

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
F	Silicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Graing
	Sideritic Graing

Select one and check.

Percent	Others	Composition
	Gypsiferous Grain	
	Calcareous Grain	
	Sapropelic Grain	
	Mn Nodules/ Crusts	
	Pyrite Grain	
	Opaque Grain	
	F red-brown	

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 338

Observer: KUM

Site: C0007 Hole: L Core: 15X Sect.: 9

Interval: 76

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment	Chemical Sediment	
	Siliciclastic	Peragic
✓		

Select one and check.

Percent Texture	Clay	
	Silt	Clay
	25	75

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
24	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
65	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
F	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain
	1
	real-brown-dm

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 16X Sect: 1

Interval: 14

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture	
Sand	Clay
	25 75

Select one and check.

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
F	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain
	<u>F red-brown DM</u>

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 338

Observer: KLM

Site: C002 Hole: L

Core: 16X

Sect: 5

Interval: 67

Sediment Name: Sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Percent Texture	
Sand	Clay
80	10

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
8	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
30	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 338

Observer: KLM

Site: C002 Hole: L

Core: 16X

Sect.: 5

Interval: 88

Sediment Name: fine ash

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
	✓		

Select one and check.

Percent Texture	
Sand	Clay
	90 10

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
5	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glaucanite
5	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain
85	

Percent	Composition
	Pelagic Grain
5	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Ellipsical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Fiscolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill Percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 16X Sect: 8

Interval: 90

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Silticlastic	Volcaniclastic	Pelagic	Neritic
✓			

Percent Texture	
Sand	Clay
	20
	80

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Silticlastic Grain
	Minerals
20	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
10	Nannofossils
	Foraminifers
	Siliceous Grain
F	Diatom
F	Radiolarians
F	Silicoflagellates
	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill Percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 17X Sect: 1

Interval: 18

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
<input checked="" type="checkbox"/>			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
<input checked="" type="checkbox"/>			

Percent Texture	
Sand	Clay
	<u>25</u> <u>75</u>

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition	Others
	Gypsiferous Grain	
	Calcareous Grain	
	Sapropelic Grain	
	Mn Nodules/ Crusts	
	Pyrite Grain	
	Opaque Grain	
		<u>red-brown</u>

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

27
Date 12-26-12

Expedition: 338

Observer: KLM

Site: C002 Hole: L

Core: 18X

Sept: 1

Interval: 24

Sediment Name:

silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Percent Texture		
Sand	Silt	Clay
	25	80

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glaucanite
70	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
3	Nannofossils
	Foraminifers
	Siliceous Grain
F	Diatom
F	Radiolarians
	Silicoflagellates
1	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Ellipsical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Fossilite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

27
Date 12-26-12

Expedition: 338

Observer: KLM

Site: C002 Hole: L

Core: 18X

Sect.: 4

Interval:

74

Sediment Name:

sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
<input checked="" type="checkbox"/>			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
<input checked="" type="checkbox"/>			

Select one and check.

Percent Texture	
Sand	Clay
100	

Select one and check.

Percent	Composition
	Siliciclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
15	
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
5	Pyrite Grain
	Opaque Grain

Fill Percentage (Total must be 100).

Remarks:

grains coated w/ microcrystalline pyrite; silt-size + sd-sme
framboids also present

Sediment Smear Slide / Thin Section Description Sheet

Date 12-27-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 18X Sect: 6

Interval: 99

Sediment Name: silty clay

Smear Slide	<input checked="" type="checkbox"/>	Thin Section		Coarse Fraction		Grain Mount	
-------------	-------------------------------------	--------------	--	-----------------	--	-------------	--

Granular Sediment	Chemical Sediment	Peragic	Neritic				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Siliciclastic</td> <td style="width: 50%;"></td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td></td> </tr> </table>	Siliciclastic		<input checked="" type="checkbox"/>				
Siliciclastic							
<input checked="" type="checkbox"/>							

Sand	Silt	Clay
	<u>20</u>	<u>80</u>

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
<u>25</u>	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glaucanite
<u>55</u>	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pteritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
<u>20</u>	Nannofossils
<u>F</u>	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition	Others
		Gypsiferous Grain
		Calcareous Grain
		Sapropelic Grain
		Mn Nodules/ Crusts
		Pyrite Grain
		Opaque Grain

Select one and check.

Fill Percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 19X Sect: 2

Interval: 10

Sediment Name: clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Percent Texture	
Sand	Clay
15	85

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
20	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconitic
70	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
10	Calcareous Grain
	Nannofossils
	Foraminifers
F	Siliceous Grain
	Diatom
	Radiolarians
F	Silicoflagellates
	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition	Others
	Gypsiferous Grain	
	Calcareous Grain	
	Sapropelic Grain	
	Mn Nodules/ Crusts	
	Pyrite Grain	
	Opaque Grain	
F	red-brown OM	

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-21-12
7

Expedition: 338

Observer: KLM

Site: C002 Hole: L

Core: 19X Sect: 5

Interval: 18

Sediment Name: fine ash

Smear Slide	<input checked="" type="checkbox"/>	Thin Section		Coarse Fraction		Grain Mount	
-------------	-------------------------------------	--------------	--	-----------------	--	-------------	--

Granular Sediment		Chemical Sediment	
Siliciclastic		Volcaniclastic	<input checked="" type="checkbox"/>
Peragic		Neritic	

Percent Texture	
Sand	5
Silt	95
Clay	

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
5	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
5	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
70	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Ellipsical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

7
Date 12-26-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 20X

Sept: 3

Interval: 10Z

Sediment Name: *silty clay*

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliclastic	Volcaniclastic	Peragic	Neritic
✓			

Percent Texture	
Sand	Clay
20	80

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
2	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Plisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
3	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain
10	micocalcite

Fill Percentage (Total must be 100).

Remarks: *yellowish mud - may contain auth micro-calcite*

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12
7

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 20x Sect.: 4

Interval: 22

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Percent Texture	
Sand	Clay
5	60

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
35	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glaucophane
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
5	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
2	Nannofossils
	Foraminifers
	Siliceous Grain
F	Diatom
	Radiolarians
	Silicoflagellates
F	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Ellipsical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
F	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
3	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L Core: 20x Sect: 5

Interval: 42

Sediment Name:

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
<input checked="" type="checkbox"/>			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
<input checked="" type="checkbox"/>			

Select one and check.

Percent Texture	
Sand	Clay
	<u>25</u> <u>75</u>

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
<u>20</u>	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
<u>70</u>	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
<u>2</u>	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Plisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain
<u>F</u>	<u>red-brown OM</u>

Fill percentage (Total must be 100).

Remarks: did not disaggregate well

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12
7

Expedition: 338

Observer: KLM

Site: C0002 Hole: L Core: 20x Sect: 7

Interval: 50

Sediment Name: fine ash

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
	✓		

Percent Texture	
Sand	Clay
15	80

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
15	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
4	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
5	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pteritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
75	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

7
Date 12-26-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 21X Sect: 1

Interval: 10

Sediment Name: silty clay

dominant lithol

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliclastic	Volcaniclastic	Peragic	Neritic
✓			

Percent Texture	
Sand	Clay
	80

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glaucconite
75	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
F	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
F	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition	Sand	Silt	Clay
	Others			
	Gypsiferous Grain			
	Calcareous Grain			
	Sapropelic Grain			
	Mn Nodules/ Crusts			
	Pyrite Grain			
	Opaque Grain			
F	red brown OM			

Fill percentage (Total must be 100).

Remarks: did not describe well

Sediment Smear Slide / Thin Section Description Sheet

7
Date 12-26-12

Expedition: 338

Observer: KLM

Site: C002 Hole: L

Core: 21X Sect: 1

Interval: 18

Sediment Name:

silty clay

sandy?

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Percent Texture		
Sand	Silt	Clay
	40	60

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glaucconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain
F	

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
F	Diatom
	Radiolarians
	Silicoflagellates
F	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Ellipsoidal Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Fossilite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

7
Date 12-26-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 214

Sect.: 2

Interval: 74

Sediment Name:

silty clay

Sandy?

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
<input checked="" type="checkbox"/>			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
<input checked="" type="checkbox"/>			

Select one and check.

Percent Texture		
Sand	Silt	Clay
5	40	55

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
50	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glaucanite
50	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain
F	red-brown OM

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

7
Date 12-26-12

Expedition: 338

Observer: KLM

Site: C002 Hole: L

Core: 21X

Sect.: 3

Interval: 16

Sediment Name:

clay

dominant lithol

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Percent Texture	
Sand	Clay
15	85

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
20	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glaucanite
75	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Ellipsoidal Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain
F	red-brown OM

Fill Percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12-26-12
7

Expedition: 338

Observer: KLM

Site: C002 Hole: L

Core: 214 Sect.: 7

Interval: 33

Sediment Name: fine ash

ash

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
<input checked="" type="checkbox"/>			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
	<input checked="" type="checkbox"/>		

Percent Texture	
Sand	Clay
15	85

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliciclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glaucophane
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
5	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain
85	

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Fossilite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

27
Date 12-26-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 22X Sect: 1

Interval: 8

Sediment Name: *silty clay*

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Silticlastic	Volcaniclastic	Peragic	Neritic
1			

Percent Texture	
Sand	Clay
85	75

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Silticlastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
70	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Argonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
3	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain
	<i>F red-brown</i>

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

27
Date 12-26-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 22X Sect: 5

Interval: 120

Sediment Name:

silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Percent Texture	
Sand	Silt Clay
	30 70

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
35	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
F	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picroitic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
F	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
5	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Min Nodules/ Crusts
F	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

27
Date ~~12-26~~-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 234 Sect: CC

Interval: 16

Sediment Name:

silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragitic	Neritic
✓			

Select one and check.

Percent Texture	
Sand	Clay
5	60

Select one and check.

Percent	Composition
	Siliclastic Grain
42	Minerals
	Quartz
	Feldspars
1-	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
F	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
3	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Ellipsoidal Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

27
Date 12-26-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 24X Sect: 3

Interval: 76

Sediment Name:

silty clay

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture	
Sand	Silt Clay
	20 80

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
70	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picrotic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
F	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
5	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicules
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

27
Date 12-26-12

Expedition: 338

Observer: KLM

Site: C0002 Hole: L

Core: 24X Sect.: 4

Interval: 40

Sediment Name:

Silty sand

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Sand	Silt	Clay
✓				✓				80	15	5

Select one and check.

Select one and check.

Select one and check.

Percent	Composition		Percent	Composition		Percent	Composition	
	Siliciclastic Minerals	Lithic Grain		Pelagic Grain	Calcareous Grain		Others	Gypsiferous Grain
30	Quartz		1	Calcareous Grain				
	Feldspars			Nannofossils				
	Micas			Foraminifers				
	Ferromagnesian Minerals			Siliceous Grain		3		
	Glaucconite			Diatom				
	Clay Minerals			Radiolarians				
	Zeolites			Silicoflagellates				
	Heavy Minerals			Sponge Spicule				
	Pyrite							
	Phosphrolite							
	Aragonite			Neritic Grain				
	Calcite			Ooid				
	Oolites			Spherical Particles				
	Lithic Grain			Elliptical Particles				
5	Sedimentary Lithic Grain			Bioclast				
	Igneous Lithic Grain			Molluscan				
30	Metamorphic Lithic Grain			Algal				
				Pellet				
				Molluscs				
				Echinoderms				
				Others				
	Volcaniclastic Grain			Intraclast				
	Scoria / Pumice			Carbonate Rock Fragment				
	Scoria			Peloid				
	Pumice			Pisolite				
	Volcaniclastic Lithic Grain			Calcareous Grain				
	Pieritic Lithic Grain			Dolomitic Grain				
	Basaltic Lithic Grain			Araginitic Grain				
	Andesitic Lithic Grain			Sideritic Grain				
	Dacitic Lithic Grain							
	Rhyolitic Lithic Grain							
	Crystal Grain							
2	Vitric Grain							

Fill percentage (Total must be 100).

Remarks:

