

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012

Observer: ESP

Expedition: 338

Site: C0502 Hole: F Core: 20 Sect.: CMW Interval:

Sediment Name: Mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture	
				Siliclastic	Volcaniclastic	Volcaniclastic	Peragic	Sand	Silt
✓									

Select one and check.

Select one and check.

Percent		Composition		Percent		Composition	
	Siliclastic Grain		Pelagic Grain		Others		Others
	Minerals		Calcareous Grain				Gypsiferous Grain
14	Quartz	8	Nannofossils				Calcareous Grain
5	Feldspars		Foraminifers				Sapropelic Grain
1	Micas		Siliceous Grain				Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom				Pyrite Grain
4	Glauconite		Radiolarians				Opaque Grain
65	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
	Heavy Minerals						
	Pyrite		Neritic Grain				
	Phospholite		Ooid				
	Aragonite		Spherical Particles				
	Calcite		Elliptical Particles				
	Oolites		Bioclast				
	Lithic Grain		Molluscan				
	Sedimentary Lithic Grain		Algal				
	Igneous Lithic Grain		Pellet				
	Metamorphic Lithic Grain		Molluscs				
			Echinoderms				
			Others				
	Volcaniclastic Grain		Intraclast				
	Scoria / Pumice		Carbonate Rock Frag				
	Scoria		Peloid				
	Pumice		Pisolite				
	Volcaniclastic Lithic Grain		Calcareous Grain				
	Pteritic Lithic Grain		Dolomitic Grain				
	Basaltic Lithic Grain		Araginitic Grain				
	Andesitic Lithic Grain		Sideritic Grain				
	Dacitic Lithic Grain						
	Rhyolitic Lithic Grain						
	Crystal Grain						
1	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

TRACE SPAGNES

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012

Expedition: 338 Observer: KSE

Site: 60002 Hole: F Core: 21 Sect.: SWW Interval:

Sediment Name: MUDSTONE

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
14	Quartz	8	Nannofossils		Calcareous Grain
5	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom		Pyrite Grain
5	Glauconite		Radiolarians		Opaque Grain
65	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Frag		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks: TRACE GRAQUES

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012
Observer: KSL

Expedition: 338
Site: C0002 Hole: F Core: 22 Sect.: SMW
Interval:

Sediment Name: MUDSTONE

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

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Minerals		Pelagic Grain		Others
			Calcareous Grain		Gypsiferous Grain
<u>13</u>	Quartz	<u>8</u>	Nannofossils		Calcareous Grain
<u>5</u>	Feldspars		Foraminifers		Sapropelic Grain
<u>1</u>	Micas		Siliceous Grain		Mn Nodules/ Crusts
<u>2</u>	Ferromagnesian Minerals		Diatom		Pyrite Grain
<u>3</u>	Glauconite		Radiolarians		Opaque Grain
<u>67</u>	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Frag		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picrotic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
<u>1</u>	Vitric Grain				

Fill percentage (Total must be 100).

Remarks: TRACES OF AQUE

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012

Expedition: 338

Observer: KJP

Site: 24

Hole:

Core: 24

Section: SMW

Interval:

Sediment Name: mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment	Chemical Sediment	Percent	Percent Texture
✓				Siliciclastic	Volcaniclastic	Peragic	Neritic

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
11	Quartz	8	Nannofossils		Calcareous Grain
5	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
3	Ferromagnesian Minerals		Diatom		Pyrite Grain
5	Glauconite		Radiolarians	1	Opaque Grain
65	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
TR	Heavy Minerals				
	Pyrite		Neritic Grain		
	Phospholite		Ooid		
	Aragonite		Spherical Particles		
	Calcite		Elliptical Particles		
	Oolites		Bioclast		
	Lithic Grain		Molluscan		
	Sedimentary Lithic Grain		Algal		
	Igneous Lithic Grain		Pellet		
	Metamorphic Lithic Grain		Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012

Expedition: 338

Observer: KJL

Site: C0002 Hole: F

Core: 25

Section: Gmw

Interval:

Sediment Name:

MUDSTONE (Silty)

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
14	Quartz	8	Nannofossils		Calcareous Grain
5	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
6	Glauconite		Radiolarians	1	Opaque Grain
64	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
TR	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Frag		
	Scoria		Peloid		
	Pumice		Plisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Pteritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012

Expedition: 338

Observer: [Signature]

Site: C0002 Hole: F

Core: 26

Sect.: 5mw

Interval:

Sediment Name: MUDSTONE

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
10	Quartz	8	Nannofossils		Calcareous Grain
5	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
7	Glauconite		Radiolarians		Opaque Grain
63	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
1	Heavy Minerals				
	Pyrite		Neritic Grain		
	Phospholite		Ooid		
	Aragonite				
	Calcite		Spherical Particles		
	Oolites		Elliptical Particles		
	Lithic Grain		Bioclast		
	Sedimentary Lithic Grain		Molluscan		
	Igneous Lithic Grain		Algal		
	Metamorphic Lithic Grain		Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain	✓	Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks: ZIRCONS

Date 05/11/2012

833

51

Core: 27 Sect.: 5M3

Interval:

SILTSTONE (Muddy)

Select one and check.

Select one and check.

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012
Observer: KSL

Expedition: 338
Site: C0002 Hole: F Core: 28 Sect.: SMW
Interval:

Sediment Name: SILTSTONE (Muddy)

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
15	Quartz	5	Nannofossils		Calcareous Grain
8	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
24	Ferromagnesian Minerals		Diatom		Pyrite Grain
10	Glauconite		Radiolarians	1	Opaque Grain
55	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
1	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Frag		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012

Expedition: 338

Observer: KJZ

Site: C0002 Hole: F

Core: 29 Sect.: SMW

Interval:

Sediment Name:

SANDSTONE (VERY FINE)

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
20	Quartz	3	Nannofossils		Calcareous Grain
10	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
5	Ferromagnesian Minerals		Diatom		Pyrite Grain
12	Glauconite		Radiolarians	1	Opaque Grain
43	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
3	Heavy Minerals				
	Pyrite		Neritic Grain		
	Phospholite		Ooid		
	Aragonite		Spherical Particles		
	Calcite		Elliptical Particles		
	Oolites		Bioclast		
	Lithic Grain		Molluscan		
	Sedimentary Lithic Grain		Algal		
	Igneous Lithic Grain		Pellet		
	Metamorphic Lithic Grain		Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Frag		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic 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:

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012
Observer: WJL

Expedition: 338
Site: C0002 Hole: F Core: 30 Sect.: SMW Interval:

Sediment Name: SILTSTONE (Muddy)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment Siliciclastic	Chemical Sediment Volcaniclastic	Pelagic Sediment Pelagic	Neritic	Percent Texture Sand Silt Clay
☒								

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain/		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
<u>20</u>	Quartz	<u>4</u>	Nannofossils		Calcareous Grain
<u>15</u>	Feldspars		Foraminifers		Sapropelic Grain
<u>1</u>	Micas		Siliceous Grain		Mn Nodules/ Crusts
<u>3</u>	Ferromagnesian Minerals		Diatom	<u>2</u>	Pyrite Grain
<u>15</u>	Glaucconite		Radiolarians		Opaque Grain
<u>4.4</u>	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
<u>TR</u>	Heavy Minerals				
	Pyrite		Neritic Grain		
	Phospholite		Ooid		
	Aragonite		Spherical Particles		
	Calcite		Elliptical Particles		
	Oolites		Bioclast		
	Lithic Grain		Molluscan		
	Sedimentary Lithic Grain		Algal		
	Igneous Lithic Grain		Pellet		
	Metamorphic Lithic Grain		Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Frag		
	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				
<u>3</u>	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338 Date: 05/11/2012
 Site: C0002 Hole: F Core: 31 Sect.: SMW
 Observer: [Signature]

Interval: _____

Sediment Name: Mudstone (silty)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Percent Texture		
				Siliciclastic	Volcaniclastic	Chemical Sediment	Sand	Silt	Clay
									

Select one and check.

Select one and check.

Select one and check.

Percent	Composition		Percent	Composition		Percent	Composition	
	Siliciclastic Grain	Minerals		Pelagic Grain	Calcareous Grain		Others	Gypsiferous Grain
15		Quartz	2		Nannofossils			Calcareous Grain
8		Feldspars			Foraminifers			Sapropelic Grain
1		Micas			Siliceous Grain			Mn Nodules/ Crusts
4		Ferromagnesian Minerals			Diatom	2		Pyrite Grain
15		Glauconite			Radiolarians			Opaque Grain
4-9		Clay Minerals			Silicoflagellates			
		Zeolites			Sponge Spicules			
2		Heavy Minerals						
		Pyrite						
		Phospholite						
		Aragonite			Neritic Grain			
		Calcite			Ooid			
		Oolites			Spherical Particles			
		Lithic Grain			Elliptical Particles			
		Sedimentary Lithic Grain			Bioclast			
		Igneous Lithic Grain			Molluscan			
		Metamorphic Lithic Grain			Algal			
					Pellet			
					Molluscs			
					Echinoderms			
					Others			
		Volcaniclastic Grain			Intraclast			
		Scoria / Pumice			Carbonate Rock Frag			
		Scoria			Peloid			
		Pumice			Pisolite			
		Volcaniclastic Lithic Grain			Calcareous Grain			
		Picrotic Lithic Grain			Dolomitic Grain			
		Basaltic Lithic Grain			Araginitic Grain			
		Andesitic Lithic Grain			Sideritic Grain			
		Dacitic Lithic Grain						
		Rhyolitic Lithic Grain						
		Crystal Grain						
2		Victic Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012

Expedition: 338

Observer: [Signature]

Site: C0002 Hole: F Core: 32 Sect.: SMW

Interval:

Sediment Name: Mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment	Chemical Sediment	Percent	Percent Texture
✓				Siliciclastic	Volcaniclastic	Peragic	Neritic

Select one and check.

Select one and check.

Select one and check.

Percent	Siliclastic Grain	Composition	Percent	Pelagic Grain	Composition	Percent	Others	Composition
	Minerals			Calcareous Grain				Gypsiferous Grain
10	Quartz		2	Nannofossils				Calcareous Grain
5	Feldspars			Foraminifers				Sapropelic Grain
1	Micas			Siliceous Grain				Mn Nodules/ Crusts
2	Ferromagnesian Minerals			Diatom		2		Pyrite Grain
3	Glauconite			Radiolarians				Opaque Grain
72	Clay Minerals			Silicoflagellates				
	Zeolites			Sponge Spicules				
2	Heavy Minerals							
	Pyrite							
	Phospholite							
	Aragonite			Neritic Grain				
	Calcite			Ooid				
	Oolites			Spherical Particles				
	Lithic Grain			Elliptical Particles				
	Sedimentary Lithic Grain			Bioclast				
	Igneous Lithic Grain			Molluscan				
	Metamorphic Lithic Grain			Algal				
				Pellet				
				Molluscs				
				Echinoderms				
				Others				
	Volcaniclastic Grain			Intraclast				
	Scoria / Pumice			Carbonate Rock Frag				
	Scoria			Peloid				
	Pumice			Pisolite				
	Volcaniclastic Lithic Grain			Calcareous Grain				
	Picritic Lithic Grain			Dolomitic Grain				
	Basaltic Lithic Grain			Araginitic Grain				
	Andesitic Lithic Grain			Sideritic Grain				
	Dacitic Lithic Grain							
	Rhyolitic Lithic Grain							
	Crystal Grain							
1	Vitric Grain							

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338 Date 05/11/2012 Observer: KSP

Site: C0002 Hole: F Core: 34 Sect.: SMW Interval:

Sediment Name: MUDSTONE

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
7	Quartz		Nannofossils		Calcareous Grain
4	Feldspars		Foraminifers		Sapropelic Grain
2	Micas		Siliceous Grain		Mn Nodules/ Crusts
4	Ferromagnesian Minerals		Diatom		Pyrite Grain
4	Glauconite		Radiolarians	1	Opaque Grain
75	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
TK	Heavy Minerals				
	Pyrite		Neritic Grain		
	Phospholite		Ooid		
	Aragonite		Spherical Particles		
	Calcite		Elliptical Particles		
	Oolites		Bioclast		
	Lithic Grain		Molluscan		
	Sedimentary Lithic Grain		Algal		
	Igneous Lithic Grain		Pellet		
	Metamorphic Lithic Grain		Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Frag		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic 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:

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012

Expedition: 338 Observer: [Signature]

Site: C0002 Hole: F Core: 35 Sect.: 5m Interval:

Sediment Name: MUDSTONE

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

Select one and check.

Select one and check.

Select one and check.

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

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012

Expedition: 338 Observer: [Signature]

Site: C0002 Hole: F Core: 36 Sect.: SMW Interval:

Sediment Name: MUDSTONE

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
5	Quartz	6	Nannofossils		Calcareous Grain
2	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules / Crusts
4	Ferromagnesian Minerals		Diatom	1	Pyrite Grain
6	Glauconite		Radiolarians		Opaque Grain
73	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
1	Heavy Minerals				
	Pyrite		Neritic Grain		
	Phospholite		Ooid		
	Aragonite		Spherical Particles		
	Calcite		Elliptical Particles		
	Oolites		Bioclast		
	Lithic Grain		Molluscan		
	Sedimentary Lithic Grain		Algal		
	Igneous Lithic Grain		Pellet		
	Metamorphic Lithic Grain		Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	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				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012
Observer: WJL

Expedition: 338
Site: C0002 Hole: F Core: 37 Sect.: SMW
Interval:

Sediment Name: MUDSTONE

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment	Chemical Sediment	Percent Texture
☒				Siliciclastic	Volcaniclastic	Sand Silt Clay
					Feragic	
					Netritic	

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
<u>8</u>	Quartz	<u>2</u>	Nannofossils		Calcareous Grain
<u>3</u>	Feldspars		Foraminifers		Sapropelic Grain
<u>1</u>	Micas		Siliceous Grain		Mn Nodules/ Crusts
<u>4</u>	Ferromagnesian Minerals		Diatom	<u>1</u>	Pyrite Grain
<u>4</u>	Glaucinite		Radiolarians		Opaque Grain
<u>6b</u>	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
<u>TR</u>	Heavy Minerals				
	Pyrite		Netritic Grain		
	Phospholite		Ooid		
	Aragonite				
	Calcite		Spherical Particles		
	Oolites		Elliptical Particles		
	Lithic Grain		Bioclast		
	Sedimentary Lithic Grain		Molluscan		
	Igneous Lithic Grain		Algal		
	Metamorphic Lithic Grain		Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Frag		
	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				
<u>1</u>	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 05/11/2012

Expedition: 338

Observer: *BA*

Site: C0002

Hole: F

Core: 40

Section: SMW

Interval:

Sediment Name: mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic		Ferriag	Neritic	Sand	Silt
✓										

Select one and check.

Select one and check.

Select one and check.

Percent	Siliciclastic Grain	Composition	Percent	Pelagic Grain	Composition	Percent	Others	Composition
53	Minerals		4	Calcareous Grain				Gypsiferous Grain
1	Quartz			Nannofossils				Calcareous Grain
8	Feldspars			Foraminifers				Sapropelic Grain
66	Micas			Siliceous Grain				Mn Nodules/ Crusts
1	Ferromagnesian Minerals			Diatom				Pyrite Grain
	Glauconite			Radiolarians				Opaque Grain
	Clay Minerals			Silicoflagellates				
	Zeolites			Sponge Spicules				
	Heavy Minerals							
	Pyrite							
	Phospholite							
	Aragonite			Neritic Grain				
	Calcite			Ooid				
	Oolites							
	Lithic Grain			Spherical Particles				
	Sedimentary Lithic Grain			Elliptical Particles				
	Igneous Lithic Grain			Bioclast				
	Metamorphic Lithic Grain			Molluscan				
				Algal				
				Pellet				
				Molluscs				
				Echinoderms				
	Volcaniclastic Grain			Others				
	Scoria / Pumice			Intraclast				
	Scoria			Carbonate Rock Fragments				
	Pumice			Peloid				
	Volcaniclastic Lithic Grain			Pisolite				
	Pieritic Lithic Grain			Calcareous Grain				
	Basaltic Lithic Grain			Dolomitic Grain				
	Andesitic Lithic Grain			Araginitic Grain				
	Dacitic Lithic Grain			Sideritic Grain				
	Rhyolitic Lithic Grain							
	Crystal Grain							
1	Vitric Grain							

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 06/11/2012

Expedition:

338

Observer: K92

Site: 60002

Hole: F

Core: 41

Section: 1mm

Interval:

Sediment Name:

Mudstone

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
5	Quartz	8	Nannofossils		Calcareous Grain
2	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom		Pyrite Grain
3	Glauconite		Radiolarians	1	Opaque Grain
77	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
1	Heavy Minerals				
	Pyrite		Neritic Grain		
	Phospholite		Ooid		
	Aragonite		Spherical Particles		
	Calcite		Elliptical Particles		
	Oolites		Bioclast		
	Lithic Grain		Molluscan		
	Sedimentary Lithic Grain		Algal		
	Igneous Lithic Grain		Pellet		
	Metamorphic Lithic Grain		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				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 06/11/2012

Expedition: 338 Observer: [signature]

Site: C0002 Hole: F Core: 42 Sect: SMM Interval:

Sediment Name: mudstone

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

Select one and check. Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain				Others
	Minerals		Calcareous Grain				Gypsiferous Grain
5	Quartz	7	Nannofossils				Calcareous Grain
3	Feldspars		Foraminifers				Sapropelic Grain
	Micas		Siliceous Grain				Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom				Pyrite Grain
	Glauconite		Radiolarians			1	Opaque Grain
80	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
1	Heavy Minerals						
	Pyrite		Neritic Grain				
	Phospholite		Ooid				
	Aragonite		Spherical Particles				
	Calcite		Elliptical Particles				
	Oolites		Bioclast				
	Lithic Grain		Molluscan				
	Sedimentary Lithic Grain		Algal				
	Igneous Lithic Grain		Pellet				
	Metamorphic Lithic Grain		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						
1	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 06/11/2012

Expedition:

338

Observer:

K2

Site: C0002

Hole: F

Core: 43

Section: SMW

Interval:

Sediment Name:

Mudstone

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
5	Quartz	6	Nannofossils		Calcareous Grain
3	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians	1	Opaque Grain
80	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
1	Heavy Minerals				
	Pyrite		Neritic Grain		
	Phospholite		Ooid		
	Aragonite		Spherical Particles		
	Calcite		Elliptical Particles		
	Oolites		Bioclast		
	Lithic Grain		Molluscan		
	Sedimentary Lithic Grain		Algal		
	Igneous Lithic Grain		Pellet		
	Metamorphic Lithic Grain		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				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 06/11/2012

Expedition: 338 Observer: KD

Site: C0002 Hole: F Core: 44 Sect.: Smu Interval:

Sediment Name: Mudstone

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
6	Quartz	6	Nannofossils		Calcareous Grain
3	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom		Pyrite Grain
2	Glauconite		Radiolarians	1	Opaque Grain
78	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	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				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 06/11/2012

Expedition:

338

Observer:

KAD

Site: 6002

Hole: F

Core: 45

Section: SNU

Interval:

Sediment Name:

MUDSTONE (SILTY)

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Calcareous Grain		Others
	Minerals		Calcareous Grain		Nannofossils		Gypsiferous Grain
12	Quartz	1			Foraminifers		Calcareous Grain
5	Feldspars				Siliceous Grain		Sapropelic Grain
1	Micas				Diatom		Mn Nodules/ Crusts
3	Ferromagnesian Minerals				Radiolarians		Pyrite Grain
	Glauconite				Silicoflagellates	1	Opaque Grain
75	Clay Minerals				Sponge Spicule		
	Zeolites						
2	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite		Neritic Grain				
	Calcite		Ooid				
	Oolites		Spherical Particles				
	Lithic Grain		Elliptical Particles				
	Sedimentary Lithic Grain		Bioclast				
	Igneous Lithic Grain		Molluscan				
	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				
	Picritic Lithic Grain		Dolomitic Grain				
	Basaltic Lithic Grain		Araginitic Grain				
	Andesitic Lithic Grain		Sideritic Grain				
	Dacitic Lithic Grain						
	Rhyolitic Lithic Grain						
	Crystal Grain						
	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 06/11/2012
Observer: KGJ

Expedition: 338
Site: C0002 Hole: F Core: 4-6 Sect.: SMW Interval:

Sediment Name: Mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment			Percent Texture		
				Chemical Sediment		Neiritic	Sand	Silt	Clay
				Siliciclastic	Volcaniclastic				
									

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
<u>80</u>	Quartz	<u>4</u>	Nannofossils		Calcareous Grain
<u>1</u>	Feldspars		Foraminifers		Sapropelic Grain
<u>2</u>	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians	<u>1</u>	Opaque Grain
<u>80</u>	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	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		
	Picrotic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
<u>1</u>	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338 Date: 06/11/2012

Observer: [Signature]

Site: C0002 Hole: F Core: 47 Sect: SMW Interval:

Sediment Name: MUDSTONE

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Neritic	Sand	Silt
										

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
9	Quartz	2	Nannofossils		Calcareous Grain
4	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians	1	Opaque Grain
80	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	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		
	Picrotic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 06/11/2012

Expedition: 338 Observer: [Signature]

Site: C0002 Hole: F Core: 48 Sect: SMW Interval:

Sediment Name: MUDSTONE

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

Select one and check.

Select one and check.

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

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 06/11/2012

Expedition: 338 Observer: [Signature]

Site: C0002 Hole: F Core: 48 Sect: 5m Interval:

Sediment Name: mudstone

Smear Slide	Thin Section	Coarse Feaction	Grain Mount	Granular Sediment Siliciclastic	Chemical Sediment Volcaniclastic	Peragic	Neritic	Percent Texture Sand Silt Clay
✓								

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
40	Quartz	4	Nannofossils		Calcareous Grain
2	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians	1	Opaque Grain
85	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite		Neritic Grain		
	Phospholite		Ooid		
	Aragonite		Spherical Particles		
	Calcite		Elliptical Particles		
	Oolites		Bioclast		
	Lithic Grain		Molluscan		
	Sedimentary Lithic Grain		Algal		
	Igneous Lithic Grain		Pellet		
	Metamorphic Lithic Grain		Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragment		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
1	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date

06/11/2012

Expedition:

338

Observer:

K22

Site: C0002

Hole: F

Core: 49

Section:

SWW

Interval:

Sediment Name:

MUDSTONE

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
5	Quartz	3	Nannofossils		Calcareous Grain
2	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians	1	Opaque Grain
85	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite		Netritic Grain		
	Phospholite		Ooid		
	Aragonite		Spherical Particles		
	Calcite		Elliptical Particles		
	Oolites		Bioclast		
	Lithic Grain		Molluscan		
	Sedimentary Lithic Grain		Algal		
	Igneous Lithic Grain		Pellet		
	Metamorphic Lithic Grain		Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragment		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
1	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 06/11/2012

Expedition:

838

Observer:

659

Site: C0002

Hole: F

Core: 50

Section: SMW

Interval:

Sediment Name:

mudstone

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
8	Quartz	1	Nannofossils		Calcareous Grain
3	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom	1	Pyrite Grain
80	Glauconite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites	1	Sponge Spicule		
2	Heavy Minerals				
	Pyrite		Nertic Grain		
	Phospholite		Ooid		
	Aragonite		Spherical Particles		
	Calcite		Elliptical Particles		
	Oolites		Bioclast		
	Lithic Grain		Molluscan		
	Sedimentary Lithic Grain		Algal		
	Igneous Lithic Grain		Pellet		
	Metamorphic Lithic Grain		Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragment		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 06/11/2012

Expedition: 338 Observer: [Signature]

Site: C0002 Hole: F Core: S1 Sect.: SMW Interval:

Sediment Name: Mudstone

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain				Others
	Minerals		Calcareous Grain				Gypsiferous Grain
6	Quartz	2	Nannofossils				Calcareous Grain
4-	Feldspars		Foraminifers				Sapropelic Grain
1	Micas		Siliceous Grain				Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom				Pyrite Grain
	Glauconite		Radiolarians			2	Opaque Grain
80	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
1	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite		Neritic Grain				
	Calcite		Ooid				
	Oolites		Spherical Particles				
	Lithic Grain		Elliptical Particles				
	Sedimentary Lithic Grain		Bioclast				
	Igneous Lithic Grain		Molluscan				
	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				
	Picrotic 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:

Sediment Smear Slide / Thin Section Description Sheet

Date 06/11/2012

Expedition: 338 Observer: [Signature]

Site: 50002 Hole: F Core: 52 Sect: SMW Interval:

Sediment Name: mudstone

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain				Others
	Minerals		Calcareous Grain				Gypsiferous Grain
8	Quartz	1	Nannofossils				Calcareous Grain
3	Feldspars		Foraminifers				Sapropelic Grain
1	Micas		Siliceous Grain				Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom			2	Pyrite Grain
	Glauconite		Radiolarians				Opaque Grain
80	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
2	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite		Neritic Grain				
	Calcite		Ooid				
	Oolites		Spherical Particles				
	Lithic Grain		Elliptical Particles				
	Sedimentary Lithic Grain		Bioclast				
	Igneous Lithic Grain		Molluscan				
	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				
	Picroitic Lithic Grain		Dolomitic Grain				
	Basaltic Lithic Grain		Araginitic Grain				
	Andesitic Lithic Grain		Sideritic Grain				
	Dacitic Lithic Grain						
	Rhyolitic Lithic Grain						
	Crystal Grain						
1	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338 Date 06/11/2012
Observer: KJL

Site: C0002 Hole: F Core: S4 Sect.: SSW Interval:

Sediment Name: MUDSTONE

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

Select one and check. Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain				Others
	Minerals		Calcareous Grain				Gypsiferous Grain
15	Quartz	2	Nannofossils				Calcareous Grain
6	Feldspars		Foraminifers				Sapropelic Grain
1	Micas		Siliceous Grain				Mn Nodules/ Crusts
3	Ferromagnesian Minerals		Diatom				Pyrite Grain
68	Glauconite		Radiolarians			2	Opaque Grain
	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
2	Heavy Minerals						
	Pyrite		Neritic Grain				
	Phospholite		Ooid				
	Aragonite		Spherical Particles				
	Calcite		Elliptical Particles				
	Oolites		Bioclast				
	Lithic Grain		Molluscan				
	Sedimentary Lithic Grain		Algal				
	Igneous Lithic Grain		Pellet				
	Metamorphic Lithic Grain		Molluscs				
			Echinoderms				
			Others				
	Volcaniclastic Grain		Intraclast				
	Scoria / Pumice		Carbonate Rock Fragment				
	Scoria		Peloid				
	Pumice		Pisolite				
	Volcaniclastic Lithic Grain		Calcareous Grain				
	Picritic Lithic Grain		Dolomitic Grain				
	Basaltic Lithic Grain		Araginitic Grain				
	Andesitic Lithic Grain		Sideritic Grain				
	Dacitic Lithic Grain						
	Rhyolitic Lithic Grain						
	Crystal Grain						
1	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 06/11/2012

Expedition:

338

Observer: VS

Site: C0002

Hole: F

Core: 56

Seal: SMW

Interval:

Sediment Name: MUDSTONE

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
<u>9</u>	Quartz	<u>1</u>	Nannofossils		Calcareous Grain
<u>4</u>	Feldspars		Foraminifers		Sapropelic Grain
<u>1</u>	Micas		Siliceous Grain		Mn Nodules/ Crusts
<u>2</u>	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glaucanite		Radiolarians	<u>2</u>	Opaque Grain
<u>78</u>	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
<u>2</u>	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	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				
<u>1</u>	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338 Date: 07/11/2012
 Site: COD2 Hole: F Core: 58 Sect.: 8m
 Observer: [Signature] Interval: 1m

Sediment Name: MUDSTONE

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
9	Quartz	2	Nannofossils		Calcareous Grain
3	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians	1	Opaque Grain
80	Clay Minerals		Silicoflagellates		
2	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Virric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 07/11/2012

Expedition: 338 Observer: KSP

Site: 60002 Hole: F Core: 62 Sect.: SMW Interval:

Sediment Name: mudstone

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
6	Quartz	4	Nannofossils		Calcareous Grain
2	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom	1	Pyrite Grain
	Glaucinite		Radiolarians		Opaque Grain
80	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
1	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	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				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks: Photo names

Sediment Smear Slide / Thin Section Description Sheet

Date 07/11/2012

Expedition: 338 Observer: JS

Site: 60002 Hole: F Core: 64 Sect.: SMU Interval:

Sediment Name: MUDSTONE

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
<u>4</u>	Quartz	<u>8</u>	Nannofossils		Calcareous Grain
<u>2</u>	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
<u>1</u>	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
<u>85</u>	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Viridic Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 07/11/2012

Expedition: 338

Observer: [Signature]

Site: C0002

Hole: F Core: 66

Interval:

Sediment Name: [SILTY] mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Nentic	Sand	Silt
✓										

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
18	Quartz		Nannofossils		Calcareous Grain
6	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
5	Ferromagnesian Minerals		Diatom	3	Pyrite Grain
65	Glauconite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	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				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 67/11/2012

8
M
M

51

Core: 68

Interval:

Mr D STONE

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
5	Quartz	3	Nannofossils		Calcareous Grain
2	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom		Pyrite Grain
85	Glauconite		Radiolarians	1	Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
1	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 07/11/2012

Expedition: 338

Observer: KJP

Site: C0002 Hole: F Core: 71 Sect.: SMW Interval:

Sediment Name: MUDSTONE

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
6	Quartz	1	Nannofossils		Calcareous Grain
2	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
85	Glauconite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
1	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Pierite Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 07/11/2012

Expedition:

338

Observer:

lgz

Site: 00002 Hole: F

Core: 73

Sect.: SMM

Interval:

Sediment Name:

Mudstone

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
15	Quartz	1	Nannofossils		Calcareous Grain
5	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
3	Ferromagnesian Minerals		Diatom	3	Pyrite Grain
70	Glauconite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	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				
	Viridic Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 07/11/2012

Expedition: 328

Observer: KJ

Site: C0002 Hole: F Core: 75 Sect.: SMW

Interval:

Sediment Name: MUDSTONE

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
15	Quartz	1	Nannofossils		Calcareous Grain
5	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
4	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
70	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	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				
	Viridic Grain				

Fill percentage (Total must be 100).

Remarks:

Date 07/11/2012

Observer: JS

Interval: _____

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment	Chemical Sediment	Percent Texture
				Siliciclastic	Volcaniclastic	
						Silt
						Clay

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		
	Minerals		Calcareous Grain		Others
20	Quartz		Nannofossils		Gypsiferous Grain
8	Feldspars		Foraminifers		Calcareous Grain
1	Micas		Siliceous Grain		Sapropelic Grain
7	Ferromagnesian Minerals		Diatom		Mn Nodules/ Crusts
	Glaucanite		Radiolarians	2	Pyrite Grain
59	Clay Minerals		Silicoflagellates		Opaque Grain
	Zeolites		Sponge Spicule		
3	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picrotic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Expedition:

238

Observer:

Date 07/11/2012

Site: C0002 Hole: F

Core: 82

Section: 82W

Interval:

Sediment Name:

MUDSTONE (SILTY)

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
83	Quartz	1	Nannofossils		Calcareous Grain
2	Feldspars		Foraminifers		Sapropelic Grain
2	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
77	Glauconite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
4	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Virric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 07/11/2012

Expedition: 338

Observer: KJL

Site: C0002

Hole: F

Core: 84

Seal: SNU

Interval:

Sediment Name: MUDSTONE

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
0.3%	Quartz	1	Nannofossils		Calcareous Grain
	Feldspars		Foraminifers		Sapropelic Grain
1%	Micas		Siliceous Grain		Mn Nodules/ Crusts
3%	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
20%	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 07/11/2012

Expedition: 338

Observer: [signature]

Site: C0002 Hole: F

Core: 86

Sect.:

Interval:

Sediment Name: MUDSTONE

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Volcaniclastic	Peragic	Neritic	Sand	Silt
✓										

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
10	Quartz	TR	Nannofossils		Calcareous Grain
3	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
3	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
79	Clay Minerals		Silicoflagellates		
2	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain	TR	Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
TR	Viridic Grain				

Fill percentage (Total must be 100).

Remarks:

Photo argonite grain (left)? Silicified volcanic?

Sediment Smear Slide / Thin Section Description Sheet

Date 07/11/2012

Expedition:

338

Observer:

bsp

Site: C0002 Hole: F

Core: 90

Sect.: SWW

Interval:

Sediment Name: MUDSTONE

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
<u>15</u>	Quartz		Nannofossils		Calcareous Grain
<u>8</u>	Feldspars		Foraminifers		Sapropelic Grain
<u>1</u>	Micas		Siliceous Grain		Mn Nodules/ Crusts
<u>2</u>	Ferromagnesian Minerals		Diatom	<u>2</u>	Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
<u>70</u>	Clay Minerals		Silicoflagellates		
<u>2</u>	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

1 garnet (?) indet. (photographed)

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338 Date: 07/11/2012
 Site: C0002 Hole: F Core: 72 Sect.: SWW
 Observer: [Signature] Interval:

Sediment Name: Mudstone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment				Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Peragic	Neritic			Sand	Silt	Clay
												

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
16	Quartz		Nannofossils		Calcareous Grain
7	Feldspars		Foraminifers		Sapropelic Grain
2	Micas		Siliceous Grain		Mn Nodules/ Crusts
3	Ferromagnesian Minerals		Diatom	3	Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
65	Clay Minerals		Silicoflagellates		
4	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picrotic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Viric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 08/11/2012

Expedition: 338 Observer: WJL

Site: C0002 Hole: F Core: 94 Sect.: SMU Interval:

Sediment Name: MUDSTONE (DOMINANT LITHOLOGY)

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
18	Quartz	1	Nannofossils		Calcareous Grain
8	Feldspars		Foraminifers		Sapropelic Grain
2	Micas		Siliceous Grain		Mn Nodules/ Crusts
3	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
73	Clay Minerals		Silicoflagellates		
3	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Virric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 6/11/2012

Expedition: 338

Observer: [Signature]

Site: C0002 Hole: F

Core: 94 Sect: SW

Interval:

Sediment Name:

CARBONATE (MINOR LITHOLOGY)

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
3	Quartz		Nannofossils	95	Calcareous Grain
2	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
TR	Heavy Minerals				
	Pyrite		Neritic Grain		
	Phospholite		Ooid		
	Aragonite		Spherical Particles		
	Calcite		Elliptical Particles		
	Oolites		Bioclast		
	Lithic Grain		Molluscan		
	Sedimentary Lithic Grain		Algal		
	Igneous Lithic Grain		Pellet		
	Metamorphic Lithic Grain		Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragment		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

SUCCESSIDES FOUND BY ANJA

Date 08/11/2012

839

51

L

96

S

Sect.: Sprw

Interval:

3 Nov 51

Percent Texture	Percent Texture		
	Sand	Silt	Clay

Select one and check.

[illegible]

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338 Date: 09/11/2012

Site: C0002 Hole: F Core: 98 Observer: KW

Sediment Name: MUDSTONE (SILT) Sect.: SMW Interval:

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment Siliciclastic	Chemical Sediment Volcaniclastic	Peragic	Neritic	Percent Texture Sand Silt Clay
☒								

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others		Others
	Minerals		Calcareous Grain		Gypsiferous Grain		Gypsiferous Grain
20	Quartz		Nannofossils		Calcareous Grain		Calcareous Grain
6	Feldspars		Foraminifers		Sapropelic Grain		Sapropelic Grain
2	Micas		Siliceous Grain		Mn Nodules/ Crusts		Mn Nodules/ Crusts
4	Ferromagnesian Minerals		Diatom		Pyrite Grain		Pyrite Grain
63	Glaucinite		Radiolarians	2	Opaque Grain		Opaque Grain
	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
3	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite		Neritic Grain				
	Calcite		Ooid				
	Oolites		Spherical Particles				
	Lithic Grain		Elliptical Particles				
	Sedimentary Lithic Grain		Bioclast				
	Igneous Lithic Grain		Molluscan				
	Metamorphic Lithic Grain		Algal				
			Pellet				
			Molluscs				
			Echinoderms				
			Others				
	Volcaniclastic Grain		Intraclast				
	Scoria / Pumice		Carbonate Rock Fragments				
	Scoria		Peloid				
	Pumice		Pisolite				
	Volcaniclastic Lithic Grain		Calcareous Grain				
	Pelitic Lithic Grain		Dolomitic Grain				
	Basaltic Lithic Grain		Araginitic Grain				
	Andesitic Lithic Grain		Sideritic Grain				
	Dacitic Lithic Grain						
	Rhyolitic Lithic Grain						
	Crystal Grain						
	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 09/11/2012

Expedition: 338

Observer: JCB

Site: C0002 Hole: F

Core: 100 Sect.: Sand

Interval:

Sediment Name: mudstone (MADOR LITHOLOGY)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Netritic

Percent Texture	
Sand	Silt Clay

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
6	Quartz
2	Feldspars
2	Micas
2	Ferromagnesian Minerals
85	Glauconite
	Clay Minerals
	Zeolites
1	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
1	Crystal Grain
	Vitric Grain

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

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 06/11/2012

Expedition: 338 Observer: KSP

Site: C0002 Hole: F Core: 100 Sect.: SMW Interval:

Sediment Name: CARBONATE (MINOR LITHOLOGY)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Neritic	Sand	Silt
										

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
<u>3</u>	Quartz		Nannofossils	<u>90</u>	Calcareous Grain
<u>2</u>	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
<u>TR</u>	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	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				
<u>5</u>	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Volcanic (vitric) glass common?

Sediment Smear Slide / Thin Section Description Sheet

Date 09/11/2012

Expedition: 338 Observer: bx

Site: C0002 Hole: F Core: 102 Sect.: SMW Interval:

Sediment Name: MUDSTONE

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment Siliciclastic	Chemical Sediment Volcaniclastic	Peragic	Neritic	Percent Texture Sand	Silt	Clay
☒										

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain				Others
	Minerals		Calcareous Grain				Gypsiferous Grain
<u>12</u>	Quartz	<u>TR</u>	Namofossils				Calcareous Grain
<u>4</u>	Feldspars		Foraminifers				Sapropellic Grain
<u>2</u>	Micas		Siliceous Grain				Mn Nodules/ Crusts
<u>3</u>	Ferromagnesian Minerals		Diatom			<u>2</u>	Pyrite Grain
	Glaucanite		Radiolarians				Opaque Grain
<u>76</u>	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
<u>1</u>	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite		Neritic Grain				
	Calcite		Ooid				
	Oolites		Spherical Particles				
	Lithic Grain		Elliptical Particles				
	Sedimentary Lithic Grain		Bioclast				
	Igneous Lithic Grain		Molluscan				
	Metamorphic Lithic Grain		Algal				
			Pellet				
			Molluscs				
			Echinoderms				
			Others				
	Volcaniclastic Grain		Intraclast				
	Scoria / Pumice		Carbonate Rock Fragments				
	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						
	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 02/11/2012

Expedition: 338 Observer: kgj

Site: COO2 Hole: F Core: 104 Sect.: SMW Interval:

Sediment Name: Mudstone

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
5	Quartz		Nannofossils		Calcareous Grain
2	Feldspars		Foraminifers		Sapropellic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
3	Ferromagnesian Minerals		Diatom	1	Pyrite Grain
85	Glaucinite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
1	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 09/11/2012

Expedition: 338

Observer: JDL

Site: 0002 Hole: F Core: 106 Sect.: SMW

Interval:

Sediment Name:

MUDSTONE (V. FINE/FINE SAND GRAINS)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic

Percent Texture	
Sand	Silt Clay

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
10	Quartz
3	Feldspars
1	Micas
3	Ferromagnesian Minerals
79	Glaucanite
	Clay Minerals
	Zeolites
2	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
	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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Grain
	Sideritic Grain

Fill percentage (Total must be 100).

Remarks:

Date 09/11/2012

338

5

Core: 108

Interval:

Sediment Name: SIXTY SANDSTONE (TOP FINE/FINE SANDS)

	Percent Texture		
	Sand	Silt	Clay

Select one and check:

[illegible]

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338

Date 09/11/2012

Observer: [Signature]

Site: C0002 Hole: F

Core: 11/6 Sect.: SMW

Interval:

Sediment Name:

Muddy
SANDSTONE (V FINE GRAIN) (TO MEDIUM SAND)
GRAINS

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic

Percent Texture	
Sand	Silt Clay

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
25	Quartz
5	Feldspars
	Micas
4	Ferromagnesian Minerals
	Glaucanite
58	Clay Minerals
4	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
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Namofossils
	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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Grain
	Sideritic Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 09/11/2012

Observer: K2

338

Site: C0002 Hole: F Core: 112 Sect.: SMW

Sediment Name: [Muddy] sandstone / siltstone (to medium sand)

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others		Composition
	Minerals		Calcareous Grain		Gypsiferous Grain		
25	Quartz		Namofossils		Calcareous Grain		
6	Feldspars	TR	Foraminifers		Sapropelic Grain		
TR	Micas		Siliceous Grain		Mn Nodules/ Crusts		
	Ferromagnesian Minerals		Diatom		Pyrite Grain		
	Glauconite		Radiolarians	8	Opaque Grain		
57	Clay Minerals		Silicoflagellates				
4	Zeolites		Sponge Spicule				
	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite		Neritic Grain				
	Calcite		Ooid				
	Oolites		Spherical Particles				
	Lithic Grain		Elliptical Particles				
	Sedimentary Lithic Grain		Bioclast				
	Igneous Lithic Grain		Molluscan				
	Metamorphic Lithic Grain		Algal				
			Pellet				
			Molluscs				
			Echinoderms				
			Others				
	Volcaniclastic Grain		Intraclast				
	Scoria / Pumice		Carbonate Rock Fragments				
	Scoria		Peloid				
	Pumice		Pisolite				
	Volcaniclastic Lithic Grain		Calcareous Grain				
	Picrotic Lithic Grain		Dolomitic Grain				
	Basaltic Lithic Grain		Araginitic Grain				
	Andesitic Lithic Grain		Sideritic Grain				
	Dacitic Lithic Grain						
	Rhyolitic Lithic Grain						
	Crystal Grain						
	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 10/11/2012

Expedition:

338

Observer: *KJD*

Site: C0002 Hole: F

Core: 114

Sect.: SML

Interval:

Sediment Name:

MUDSTONE

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic

Percent Texture	
Sand	Silt Clay

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
8	Quartz
2	Feldspars
TR	Micas
2	Ferromagnesian Minerals
	Glauconite
85	Clay Minerals
	Zeolites
2	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
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
TR	Calcareous Grain
	Namofossils
	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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Grain
	Sideritic Grain

Fill percentage (Total must be 100).

Remarks:

Date 10/11/2012

Observer: 

Interval:

	Percent Texture		
	Sand	Silt	Clay

Select one and check:

Select one and check:

[illegible]

Fill percentage (Total must be 100).

Remarks:

Date 10/11/2012

5

Interval:

Wednesday

	Percent Texture		
	Sand	Silt	Clay

Select one and check:

[illegible]

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 10/11/2012

Expedition: 338 Observer: BSL

Site: C0002 Hole: F Core: 122 Sect.: SW Interval:

Sediment Name: VERY FINE SANDS (MUDRY)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment Siliciclastic	Chemical Sediment Volcaniclastic	Peragic	Neritic	Percent Texture Sand Silt Clay
☒								

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others		Others
	Minerals		Calcareous Grain		Gypsiferous Grain		Gypsiferous Grain
<u>25</u>	Quartz		Namofossils		Calcareous Grain		Calcareous Grain
<u>6</u>	Feldspars		Foraminifers		Sapropelic Grain		Sapropelic Grain
<u>2</u>	Micas		Siliceous Grain		Mn Nodules/ Crusts		Mn Nodules/ Crusts
<u>2</u>	Ferromagnesian Minerals		Diatom		Pyrite Grain		Pyrite Grain
<u>3</u>	Glauconite		Radiolarians		Opaque Grain		Opaque Grain
<u>56</u>	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
<u>2</u>	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite		Neritic Grain				
	Calcite		Ooid				
	Oolites						
	Lithic Grain		Spherical Particles				
	Sedimentary Lithic Grain		Elliptical Particles				
	Igneous Lithic Grain		Bioclast				
	Metamorphic Lithic Grain		Molluscan				
			Algal				
			Pellet				
			Molluscs				
			Echinoderms				
			Others				
	Volcaniclastic Grain		Intraclast				
	Scoria / Pumice		Carbonate Rock Fragments				
	Scoria		Peloid				
	Pumice		Pisolite				
	Volcaniclastic Lithic Grain		Calcareous Grain				
	Picrotic Lithic Grain		Dolomitic Grain				
	Basaltic Lithic Grain		Araginitic Grain				
	Andesitic Lithic Grain		Sideritic Grain				
	Dacitic Lithic Grain						
	Rhyolitic Lithic Grain						
	Crystal Grain						
	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 10/11/2012

Expedition: 338

Observer: [Signature]

Site: 0002 Hole: F Core: 124 Sect.: GWW Interval:

Sediment Name: VERY FINE SAND (Muddy)

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
35	Quartz		Nannofossils		Calcareous Grain
7	Feldspars		Foraminifers		Sapropellic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
3	Ferromagnesian Minerals		Diatom		Pyrite Grain
14	Glaucinite		Radolarians	3	Opaque Grain
(45)	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
			Bioclast		
	Sedimentary Lithic Grain		Molluscan		
	Igneous Lithic Grain		Algal		
	Metamorphic Lithic Grain		Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Pelitic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 10/11/2012

Expedition: 338 Observer: WJ

Site: C0002 Hole: F Core: 126 Sect.: 6mm Interval:

Sediment Name: [Silty mudstone] (SAND TO VERY FINE)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment Siliciclastic	Chemical Sediment Volcaniclastic	Peragic	Neritic	Percent Texture Sand Silt Clay
☒								

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
14	Quartz		Namofossils		Calcareous Grain
4	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
2	Ferromagnesian Minerals		Diatom		Pyrite Grain
3	Glauconite		Radiolarians	1	Opaque Grain
72	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite				
	Calcite		Neritic Grain		
	Oolites		Ooid		
	Lithic Grain		Spherical Particles		
	Sedimentary Lithic Grain		Elliptical Particles		
	Igneous Lithic Grain		Bioclast		
	Metamorphic Lithic Grain		Molluscan		
			Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 10/11/2012

Observer: [signature]

238

Site: C0002 Hole: F Core: 130 Sect.: JMW Interval:

Sediment Name: (mud) very fine sand

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

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
25	Quartz		Namofossils		Calcareous Grain
4	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
3	Ferromagnesian Minerals		Diatom	3	Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
59	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Pteritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 10/11/2012

Expedition: 338 Observer: KJL

Site: 60002 Hole: F Core: 132 Sect.: SMU Interval:

Sediment Name: VELV FINE SANDS (MUDY) MARE LITHOLOGY

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment Siliciclastic	Chemical Sediment Volcaniclastic	Peragic	Neritic	Percent Texture Sand	Silt	Clay
☒										

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others		
	Minerals		Calcareous Grain		Gypsiferous Grain		
<u>20</u>	Quartz		Nannofossils		Calcareous Grain		
<u>6</u>	Feldspars		Foraminifers		Sapropellic Grain		
<u>2</u>	Micas		Siliceous Grain		Mn Nodules/ Crusts		
<u>2</u>	Ferromagnesian Minerals		Diatom		Pyrite Grain		
	Glaucinite		Radiolarians		Opaque Grain		
<u>65</u>	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
<u>2</u>	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite		Neritic Grain				
	Calcite		Ooid				
	Oolites		Spherical Particles				
	Lithic Grain		Elliptical Particles				
	Sedimentary Lithic Grain		Bioclast				
	Igneous Lithic Grain		Molluscan				
	Metamorphic Lithic Grain		Algal				
			Pellet				
			Molluscs				
			Echinoderms				
			Others				
	Volcaniclastic Grain		Intraclast				
	Scoria / Pumice		Carbonate Rock Fragments				
	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						
<u>1</u>	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 07/11/2012

Expedition: 338 Observer: [Signature]

Site: C0002 Hole: F Core: 132 Sect.: SMU Interval:

Sediment Name: CARBONATE (MINOR LITHOLOGY)

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

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
5	Quartz		Nannofossils	90	Calcareous Grain
2	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
1	Ferromagnesian Minerals		Diatom	1	Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
1	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	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				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 10/11/2012

15

Interval:

~~Mudstone (silt)~~ some grains to very fine sands

	Percent Texture		
	Sand	Silt	Clay

Select one and check.

[illegible]

Remarks:

Date 10/11/2012

32

Observer:

Core: 136 Sect: 5NW

Interval:

(MAJOR LITHOLOGY)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
			

Granular Sediment	Chemical Sediment
Siliciclastic	Volcaniclastic
	Peragic
	Netritic

	Percent Texture		
	Sand	Silt	Clay

Select one and check

Select one and check:

Percent	Composition
	Siliclastic Grain
	Minerals
20	Quartz
5	Feldspars
1	Micas
2	Ferromagnesian Mineral
	Glauconite
45	Clay Minerals
	Zeolites
2	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
	Crystal Grain
	Vitric Grain

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

[illegible]

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338

Date: 07/11/2012

Observer: [Signature]

Site: C0002 Hole: F

Core: 136

Sec.: 8mm

Interval:

Sediment Name:

CARBONATE (MINOR LITHOLOGY)

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain				Others
	Minerals		Calcareous Grain				Gypsiferous Grain
4	Quartz		Nannofossils	90			Calcareous Grain
2	Feldspars		Foraminifers				Sapropelic Grain
	Micas		Siliceous Grain				Mn Nodules/ Crusts
1	Ferromagnesian Minerals		Diatom				Pyrite Grain
	Glaucconite		Radiolarians	1			Opaque Grain
	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
1	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite		Neritic Grain				
	Calcite		Ooid				
	Oolites		Spherical Particles				
	Lithic Grain		Elliptical Particles				
	Sedimentary Lithic Grain		Bioclast				
	Igneous Lithic Grain		Molluscan				
	Metamorphic Lithic Grain		Algal				
			Pellet				
			Molluscs				
			Echinoderms				
			Others				
	Volcaniclastic Grain		Intraclast				
	Scoria / Pumice		Carbonate Rock Fragments				
	Scoria		Peloid				
	Pumice		Pisolite				
	Volcaniclastic Lithic Grain		Calcareous Grain				
	Picritic Lithic Grain		Dolomitic Grain				
	Basaltic Lithic Grain		Araginitic Grain				
	Andesitic Lithic Grain		Sideritic Grain				
	Dacitic Lithic Grain						
	Rhyolitic Lithic Grain						
	Crystal Grain						
1	Virric Grain						

Fill percentage (Total must be 100).

Remarks:

Photos and remnant slides?

Sediment Smear Slide / Thin Section Description Sheet

Date 10/11/2012

Expedition: 338 Observer: KGT

Site: COCOR Hole: F Core: 13B Sect.: SMW Interval:

Sediment Name: VERY FINE SAND (Muddy)

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

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others		
	Minerals		Calcareous Grain		Gypsiferous Grain		
35	Quartz		Nannofossils		Calcareous Grain		
10	Feldspars		Foraminifers		Sapropellic Grain		
3	Micas		Siliceous Grain		Mn Nodules/ Crusts		
	Ferromagnesian Minerals		Diatom	2	Pyrite Grain		
46	Glauconite		Radiolarians		Opaque Grain		
	Clay Minerals		Silicoflagellates				
2	Zeolites		Sponge Spicule				
	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite		Neritic Grain				
	Calcite		Ooid				
	Oolites		Spherical Particles				
	Lithic Grain		Elliptical Particles				
	Sedimentary Lithic Grain		Bioclast				
	Igneous Lithic Grain		Molluscan				
2	Metamorphic Lithic Grain		Algal				
			Pellet				
			Molluscs				
			Echinoderms				
			Others				
	Volcaniclastic Grain		Intraclast				
	Scoria / Pumice		Carbonate Rock Fragments				
	Scoria		Peloid				
	Pumice		Pisolite				
	Volcaniclastic Lithic Grain		Calcareous Grain				
	Picritic Lithic Grain		Dolomitic Grain				
	Basaltic Lithic Grain		Araginitic Grain				
	Andesitic Lithic Grain		Sideritic Grain				
	Dacitic Lithic Grain						
	Rhyolitic Lithic Grain						
	Crystal Grain						
	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 24/11/2012

Expedition: 338

Observer: KEJ

Site: C002 Hole: F Core: 139 Sect.: SMW Interval:

Sediment Name: VERY FINE SAND (MUDRY)

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
25	Quartz		Nannofossils		Calcareous Grain
5	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
54	Glaucinite		Radiolarians	3	Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
1	Viridic Grain				

Fill percentage (Total must be 100).

Remarks:

Date 10/11/2012

Observer: 

Interval:

Sediment Name: VFLY FINE SAND (muddy)

[illegible]

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		
	Minerals		Calcareous Grain		Others
40	Quartz		Namofossils	2	Gypsiferous Grain
10	Feldspars		Foraminifers		Calcareous Grain
	Micas		Siliceous Grain		Sapropelic Grain
4	Ferromagnesian Minerals		Diatom		Mn Nodules/ Crusts
	Glauconite		Radiolarians	2	Pyrite Grain
39	Clay Minerals		Silicoflagellates		Opaque Grain
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
1	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 10/11/2012

Expedition: 338 Observer: KJH

Site: 0002 Hole: F Core: 142 Sect.: SWW Interval:

Sediment Name: V621 FINE SAND (muddy)

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
25	Quartz		Nannofossils		Calcareous Grain
10	Feldspars		Foraminifers		Sapropelic Grain
2	Micas		Siliceous Grain		Mn Nodules/ Crusts
3	Ferromagnesian Minerals		Diatom	3	Pyrite Grain
55	Glauconite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picrotic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 10/11/2012

Expedition: 338 Observer: KJD

Site: C0002 Hole: F Core: 144 Sect.: SMW Interval:

Sediment Name: SILTY MUDSTONE

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment Siliclastic	Chemical Sediment Volcaniclastic	Peragic	Neritic	Percent Texture Sand	Silt	Clay
✓										

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others		Others
	Minerals		Calcareous Grain		Gypsiferous Grain		Gypsiferous Grain
22	Quartz		Nannofossils		Calcareous Grain		Calcareous Grain
8	Feldspars		Foraminifers		Sapropelic Grain		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts		Mn Nodules/ Crusts
1	Ferromagnesian Minerals		Diatom		Pyrite Grain		Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain		Opaque Grain
65	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
1	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite		Neritic Grain				
	Calcite		Ooid				
	Oolites		Spherical Particles				
	Lithic Grain		Elliptical Particles				
	Sedimentary Lithic Grain		Bioclast				
	Igneous Lithic Grain		Molluscan				
	Metamorphic Lithic Grain		Algal				
			Pellet				
			Molluscs				
			Echinoderms				
			Others				
	Volcaniclastic Grain		Intraclast				
	Scoria / Pumice		Carbonate Rock Fragments				
	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						
	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 11/11/2012

Expedition:

338

Observer: KJR

Site: C0002 Hole: F Core: 148 Sect.: SMW

Interval:

Sediment Name: SILTY MUDSTONE (GRAYS VERY FINE SAND)
2-2-2

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
☒			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic

Percent Texture	
Sand	Silt Clay

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
<u>25</u>	Quartz
<u>7</u>	Feldspars
	Micas
<u>1</u>	Ferromagnesian Minerals
	Glaucinite
<u>64</u>	Clay Minerals
	Zeolites
<u>1</u>	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
	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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
<u>2</u>	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 11/11/2012

Observer: KJR

Expedition: 338

Site: C0002 Hole: F Core: 150 Sect.: SWW Interval:

Sediment Name: SANDSTONE (FINE) TO (MEDIUM SAND GRAINS)

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain				Others
	Minerals		Calcareous Grain				Gypsiferous Grain
40	Quartz		Namofossils				Calcareous Grain
6	Feldspars		Foraminifers				Sapropelic Grain
1	Micas		Siliceous Grain				Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom			2	Pyrite Grain
	Glauconite		Radiolarians				Opaque Grain
49	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
2	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite						
	Calcite						
	Oolites						
	Lithic Grain		Neritic Grain				
	Sedimentary Lithic Grain		Ooid				
	Igneous Lithic Grain		Spherical Particles				
	Metamorphic Lithic Grain		Elliptical Particles				
			Bioclast				
			Molluscan				
			Algal				
			Pellet				
			Molluscs				
			Echinoderms				
			Others				
	Volcaniclastic Grain		Intraclast				
	Scoria / Pumice		Carbonate Rock Fragments				
	Scoria		Peboid				
	Pumice		Pisolite				
	Volcaniclastic Lithic Grain		Calcareous Grain				
	Pteritic Lithic Grain		Dolomitic Grain				
	Basaltic Lithic Grain		Araginitic Grain				
	Andesitic Lithic Grain		Sideritic Grain				
	Dacitic Lithic Grain						
	Rhyolitic Lithic Grain						
	Crystal Grain						
	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 11/11/2012

Expedition: 338

Observer: [Signature]

Site: 60002 Hole: F

Core: 153

Section: 5mm

Interval:

Sediment Name: SILTY mudstone (GRANITE V. FINE SAND)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic

Percent Texture	
Sand	Silt Clay

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliciclastic Grain
	Minerals
20	Quartz
7	Feldspars
1	Micas
1	Ferromagnesian Minerals
	Glaucanite
65	Clay Minerals
	Zeolites
2	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
	Namofossils
	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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Grain
	Sideritic Grain

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

Fill percentage (Total must be 100).

Remarks:

Date 11/1/2012

Observer:

Interval:

AND CUTE!

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
			

Granular Sediment	Chemical Sediment
Siliciclastic	Volcaniclastic
	Peragic
	Neritic

	Percent Texture		
	Sand	Silt	Clay

Select one and check:

Select one and check:

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
40	Quartz
5	Feldspars
1	Micas
1	Ferromagnesian Mineral
	Glauconite
50	Clay Minerals
	Zeolites
1	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
	Namofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radolarians
	Silicoflagellates
	Sponge Spicule
	Netric 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

[illegible]

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 11/11/2012

Expedition: 338 Observer: VSF

Site: C0002 Hole: F Core: 158 Sect.: 8 MW Interval:

Sediment Name: SILTY SANDSTONE (VERY FINE) SAND

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
<u>37</u>	Quartz		Nannofossils		Calcareous Grain
<u>8</u>	Feldspars		Foraminifers		Sapropelic Grain
<u>1</u>	Micas		Siliceous Grain		Mn Nodules/ Crusts
<u>1</u>	Ferromagnesian Minerals		Diatom	<u>2</u>	Pyrite Grain
	Glaucinite		Radiolarians	<u>2</u>	Opaque Grain
<u>46</u>	Clay Minerals		Silicoflagellates		<u>ORGANICS / COM</u>
	Zeolites		Sponge Spicule		
<u>1</u>	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Nertic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
<u>2</u>	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragme		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 24/11/2012

Expedition:

338

Observer: KGP

Site: 60002 Hole: F

Core: 159

Sect.: Sms

Interval:

Sediment Name:

Silty claystone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
<u>✓</u>			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic

Percent Texture	
Sand	Silt Clay

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
<u>8</u>	Quartz
<u>1</u>	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
<u>90</u>	Clay Minerals
	Zeolites
<u>TR</u>	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
<u>TR</u>	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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Grain
	Sideritic Grain

Fill percentage (Total must be 100).

Remarks:

Date 11/11/2012

338

2

Core:	161	5m3	Sect.:
-------	-----	-----	--------

Interval:

100

	Percent Texture		
	Sand	Silt	Clay

Select one and check:

[illegible]

Fill percentage (Total must be 100).

Remarks: 21 Rec on phylographed

Sediment Smear Slide / Thin Section Description Sheet

Date 24/11/2012

Expedition:

338

Observer: KG

Site: 6002

Hole: F

Core: 162

Sect.: SNW

Interval:

Sediment Name: VERY FINE SAND (muddy)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
☒			

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic

Percent Texture	
Sand	Silt Clay

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
20	Quartz
3	Feldspars
	Micas
	Ferromagnesian Minerals
71	Glaucanite
	Clay Minerals
	Zeolites
1	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
1	Sedimentary Lithic Grain
	Igneous Lithic Grain
1	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
1	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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Grain
	Sideritic Grain

Fill percentage (Total must be 100).

Remarks:

Date 11/11/2012

338

2

Core: 163

Core: 16S

Interval:

VERY FINE SAND (Mudflat)

	Percent Texture		
	Sand	Silt	Clay

Select one and check.

[illegible]

Remarks:

Date 24/11/2012

Observer: 

Interval:

ANS TO FIVE

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	<table border="1"> <tr> <td colspan="2">Granular Sediment</td> <td colspan="2">Chemical Sediment</td> <td colspan="2"></td> </tr> <tr> <td>Siliciclastic</td> <td>Volcaniclastic</td> <td>Peragic</td> <td colspan="3">Nertitic</td> </tr> </table>				Granular Sediment		Chemical Sediment				Siliciclastic	Volcaniclastic	Peragic	Nertitic			<table border="1"> <tr> <td colspan="2">Percent Texture</td> </tr> <tr> <td>Sand</td> <td>Silt Clay</td> </tr> </table>		Percent Texture		Sand	Silt Clay
Granular Sediment		Chemical Sediment																							
Siliciclastic	Volcaniclastic	Peragic	Nertitic																						
Percent Texture																									
Sand	Silt Clay																								

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
30	Quartz		Namofossils		Calcareous Grain
4	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
2	Glauconite		Radiolarians	3	Opaque Grain
56	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
2	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
1	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 11/11/2012

Expedition:

338

Observer: JSZ

Site: C0002 Hole: F

Core: 167

Interval:

Section: SMW

Sediment Name:

VERY FINE SANDSTONE (MURRAY)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Neritic	Sand	Silt
										

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
20	Quartz		Namofossils		Calcareous Grain
4	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
1	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glaucanite		Radiolarians	2	Opaque Grain
70	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 24/11/2012

Expedition: 338 Observer: [Signature]

Site: 0002 Hole: F Core: 168 Sect.: SM Interval:

Sediment Name: VERY FINE SAND (MUDRY)

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
20	Quartz		Nannofossils		Calcareous Grain
4	Feldspars		Foraminifers		Sapropellic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
3	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
54	Glauconite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
2	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
2	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Pebble		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picrotic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date _____

Expedition:

338

Observer:

Site: C5002 Hole:

Core: 169

Sect.:

Sediment Name:

(FLY FIVE JAND / MURBY) TO FIVE GRANS

Smear Slide		Thin Section	Coarse Fraction	Grain Mount
	✓			

	Chemical Sediment		Neritic
	Granular Sediment	Peragic	
	Siliciclastic	Volcaniclastic	

	Percent Texture		
	Sand	Silt	Clay
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
18	Quartz
6	Feldspars
1	Micas
	Ferromagnesian Mineral
	Glauconite
70	Clay Minerals
	Zeolites
2	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
	Namofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicule
	Neuritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Grain
	Sideritic Grain

[illegible]

Fill percentage (Total must be 100).

Remarks:

Date 24/11/2012

238

2

Core: 170

Interval:

FINE SAND (medium) - 1/2 cu medium sand grains

	Percent Texture		
	Sand	Silt	Clay

Select one and check.

[illegible]

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date: 11/11/2012

Expedition: 838 Observer: K20

Site: 0002 Hole: F Core: 172 Sect.: SWS Interval:

Sediment Name: CARBONATE

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Neritic	Sand	Silt
										

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
3	Quartz	TR	Nannofossils	95	Calcareous Grain
1	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glaucinite		Radiolarians		Opaque Grain
2	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite				
	Calcite		Neritic Grain		
	Oolites		Ooid		
	Lithic Grain		Spherical Particles		
	Sedimentary Lithic Grain		Elliptical Particles		
	Igneous Lithic Grain		Bioclast		
	Metamorphic Lithic Grain		Molluscan		
			Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks: Photo taken

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338 Date: 24/11/2012

Observer: [Signature]

Site: 6002 Hole: F Core: 173 Sect.: [Signature] Interval:

Sediment Name: VERY FINE SAND (MUDDY)

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
35	Quartz		Nannofossils		Calcareous Grain
5	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
1	Ferromagnesian Minerals		Diatom	3	Pyrite Grain
47	Glaucanite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
5	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
2	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picrotic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 11/1/2012

Observer: 

Interval: _____

[illegible]

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		
	Minerals		Calcareous Grain		Others
30	Quartz		Namofossils		Gypsiferous Grain
8	Feldspars		Foraminifers		Calcareous Grain
1	Micas		Siliceous Grain		Sapropelic Grain
	Ferromagnesian Minerals		Diatom		Mn Nodules/ Crusts
	Glauconite		Radiolarians		Pyrite Grain
56	Clay Minerals		Silicoflagellates	1	Opaque Grain
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
2	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Graining		
	Andesitic Lithic Grain		Sideritic Graining		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Remarks: Schitt photographed with strong friction

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338 Date: 24/11/2012

Observer: [Signature]

Site: C0002 Hole: F Core: 178 Sect.: SMW Interval:

Sediment Name: FINE SAND (muddy) mainly v. fine GRAIN

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture			
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Neritic	Sand	Silt	Clay
											

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
40	Quartz		Nannofossils		Calcareous Grain
8	Feldspars		Foraminifers		Sapropelic Grain
TR	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
3	Glaucanite		Radiolarians	4	Opaque Grain
15	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicules		
4	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
4	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
2	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 11/11/2012

Observer: 12

Interval:

	Percent Texture		
	Sand	Silt	Clay

[illegible]

Remarks:

Metamorphic grain photographs

Date 11/1/2012

Observer: Observer: 

25

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	<table border="1"> <tr> <td colspan="2">Granular Sediment</td> <td colspan="2">Chemical Sediment</td> <td colspan="2"></td> </tr> <tr> <td>Siliciclastic</td> <td>Volcaniclastic</td> <td>Peragic</td> <td colspan="3">Neritic</td> </tr> </table>				Granular Sediment		Chemical Sediment				Siliciclastic	Volcaniclastic	Peragic	Neritic			<table border="1"> <tr> <td>Sand</td> <td>Silt</td> <td>Clay</td> </tr> </table>		Sand	Silt	Clay
Granular Sediment		Chemical Sediment																						
Siliciclastic	Volcaniclastic	Peragic	Neritic																					
Sand	Silt	Clay																						
																								

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
30	Quartz		Namofossils		Calcareous Grain
4	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
60	Clay Minerals		Silicoflagellates		
2	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
1	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	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				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 12/11/2012

5

Interval:

FINE SAND (medium)

Select one and check.

Select one and check.

Fill percentage (Total must be 100).

Remarks:

Date 12/11/2012

21

Interval:

GRAINS (wheat)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Percent	Composition
	Siliclastic Grain
5	Minerals
30	Quartz
6	Feldspars
1	Micas
1	Ferromagnesian Minerals
	Glauconite
57	Clay Minerals
	Zeolites
2	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
2	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
	Crystal Grain
	Vitric Grain

Fill percentage (Total must be 100).

Remarks:

Date 12/11/2012

338

✓

7

193

5ms

FINE SAND (medium)

Select one and check.Select one and check.

Remarks:

Date 12/1/2002

Observer: 

Interval:

	Percent Texture		
	Sand	Silt	Clay

[illegible]

Remarks:

$VE_1 \sim \bar{Q}E_2 + \text{inconsistent photographs}$

Date 24/11/2012

855

15

Core: 196

Interval:

CLAYSTONE

Percent Texture		
Sand	Silt	Clay

Select one and check.

[illegible]

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12/11/2012

Expedition:

338

Observer: BRP

Site: C0002 Hole: F

Core: 199

Sect.: SW

Interval:

Sediment Name:

FINE SAND (TO FINE MEDIUM GRAINS) (MUDY)
- EVEN TR. COARSE GRAIN

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
50	Quartz		Namofossils		Calcareous Grain
15	Feldspars		Foraminifers		Sapropelic Grain
TR	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
24	Glauconite		Radiolarians	2	Opaque Grain
	Clay Minerals		Silicoflagellates	2	OR GANIC FOAL
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite				
	Calcite		Neritic Grain		
	Oolites		Ooid		
	Lithic Grain		Spherical Particles		
	Sedimentary Lithic Grain		Elliptical Particles		
	Igneous Lithic Grain		Bioclast		
5	Metamorphic Lithic Grain		Molluscan		
			Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragme		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 12/11/2012

338

5

Core: 201 Sect: 500

Interval: _____

FINE SAND (number)

	Percent Texture		
	Sand	Silt	Clay

Select one and check.

Select one and check.

[illegible]

Fill percentage (Total must be 100).

Remarks: Schist last photographed

Date 12/11/2012

833

5

F

ore:

3

3

val:

VERY FINE SAND (medium)

[illegible]

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		
	Minerals		Calcareous Grain		Others
30	Quartz		Namofossils		Gypsiferous Grain
4	Feldspars		Foraminifers		Calcareous Grain
	Micas		Siliceous Grain		Sapropelic Grain
	Ferromagnesian Minerals		Diatom		Mn Nodules/ Crusts
59	Glauconite		Radiolarians	2	Pyrite Grain
	Clay Minerals		Silicoflagellates		Opaque Grain
1	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
2	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 12/11/2012

338

2

Core: 205 Sect.: 8m

Interval:

VERY FINE SAND (mudry)

Granular Sediment	Chemical Sediment
Siliciclastic	Volcaniclastic
	Peragic
	Netritic

	Percent Texture		
	Sand	Silt	Clay

Select one and check.

Select one and check.

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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Grain
	Sideritic Grain

[illegible]

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 24/11/2012

Expedition: 338

Observer: WJ

Site: 60002 Hole: F Core: 206 Sect.: SW Interval:

Sediment Name: SILTY CLAYSTONE (FEW GRAINS TO J.F.N.E)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Neritic	Sand	Silt
										

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
<u>15</u>	Quartz		Nannofossils		Calcareous Grain
<u>4</u>	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
<u>74</u>	Glaucanite		Radiolarians	<u>2</u>	Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
<u>2</u>	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
<u>1</u>	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Pelitic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
<u>2</u>	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 13/11/2012

338

12/1

Core: 207 Sect.: 5NW

Interval:

Very fine Sands (Mudry)

	Percent Texture		
	Sand	Silt	Clay

Select one and check.

Select one and check.

[illegible]

Fill percentage (Total must be 100).

Remarks: Auxiliary properly rechecked

13/11/2012

Sediment Name:

Very fine sand (mud)

Sm

Core: 209

Hole:

Site: Covo 2

Expedition:

Observer:

Interval:

Smear Slide	Thin Section	Coarse Feaction	Grain Mount
✓			

Select one and check:

Granular Sediment	Chemical Sediment
Siliciclastic	Volcaniclastic
	Peragic
	Neritic

Select one and check:

	Percent Texture		
	Sand	Silt	Clay

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
35	Quartz
18	Feldspars
1	Micas
	Ferromagnesian Minerals
	Glauconite
47	Clay Minerals
	Zeolites
2	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
5	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
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Namofossils
	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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Argentic Grain
	Sideritic Grain

[illegible]

Fill percentage (Total must be 100).

Remarks:

Date 14/11/2012

Observer:

Interval:

me: V. FINE SAND (muddy)

	Percent Texture		
	Sand	Silt	Clay

Select one and check:

[illegible]

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date _____

Expedition:

833

Observer:

Site: C0502 Hole: F

Core: 213

Sect.: *Smw*

Interval:

Sediment Name:

(mudry) - Grains to very fine sands

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
			

Granular Sediment	Chemical Sediment
Siliciclastic	Volcaniclastic
	Peragic
	Neritic

	Percent Texture		
	Sand	Silt	Clay

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
20	Quartz
6	Feldspars
1	Micas
	Ferromagnesian Minerals
	Glauconite
68	Clay Minerals
	Zeolites
2	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
	Crystal Grain
1	Vitric Grain

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

[illegible]

Fill percentage (Total must be 100).

Remarks:

Date 14/11/2012

338

27

Hole: F

215

533

Interval:

SILTSTONE

Smear Slide	Thin Section	Coarse Feaction	Grain Mount
✓			

Granular Sediment	Chemical Sediment
Siliciclastic	Volcaniclastic
	Peragic
	Neritic

	Percent Texture		
	Sand	Silt	Clay

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
25	Quartz
	Feldspars
1	Micas
	Ferromagnesian Minerals
	Glauconite
71	Clay Minerals
	Zeolites
71	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
1	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
	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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

[illegible]

Fill percentage (Total must be 100).

Remarks:

Date 14/11/2012

338

25

Core: 217

Sect.: *Sm*

Interval:

mit Stille

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
			

Granular Sediment	Chemical Sediment
Siliciclastic	Volcaniclastic
	Peragic
	Neritic

	Percent Texture		
	Sand	Silt	Clay

Select one and check.

Select one and check.

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
25	Quartz
8	Feldspars
1	Micas
	Ferromagnesian Minerals
	Glauconite
61	Clay Minerals
	Zeolites
1	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
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Namofossils
	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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

[illegible]

Fill percentage (Total must be 100).

Nights Stowed

Date 15/11/2012

338

25

4

ore.

ect:

3

ival:

Room) (2nd Floor)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and check.

Granular Sediment	Chemical Sediment
Siliciclastic	Volcaniclastic
	Peragic
	Neutric

Select one and check.

	Percent Texture		
	Sand	Silt	Clay
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
18	Quartz
5	Feldspars
1	Micas
	Ferromagnesian Minerals
	Glauconite
6	Clay Minerals
	Zeolites
2	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
1	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
	Namofossils
	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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

[illegible]

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 15/1/2012

Expedition: 338 Observer: KD

Site: Cool 2 Hole: F Core: 229 Sect.: SW Interval:

Sediment Name: SILTSTONE (TO 1. FINE SAND) (muddy)

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

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
22	Quartz		Nannofossils		Calcareous Grain
5	Feldspars		Foraminifers		Sapropellic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glaucinite		Radiolarians	2	Opaque Grain
67	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
1	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite				
	Calcite		Neritic Grain		
	Oolites		Ooid		
	Lithic Grain		Spherical Particles		
	Sedimentary Lithic Grain		Elliptical Particles		
	Igneous Lithic Grain		Bioclast		
2	Metamorphic Lithic Grain		Molluscan		
			Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Pelitic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 15/1/2012

Observer:

338

15

Core: 227 Sect.: SW

FINE SAND (MIDDY)

	Percent Texture		
	Sand	Silt	Clay
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			

Select one and check.

Select one and check.

[illegible]

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 24/11/2012

Expedition: 338 Observer: [Signature]

Site: C0002 Hole: F Core: 230 Sect.: dmw Interval:

Sediment Name: Silty claystone

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Sand	Silt	Clay
☒										

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
10	Quartz		Nannofossils		Calcareous Grain
2	Feldspars		Foraminifers		Sapropelic Grain
2	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom	1	Pyrite Grain
82	Glaucanite		Radiolarians		Opaque Grain
1	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
7	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picrotic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 15/11/2012

338

42

7

3

act:

3

SILTSTONE (TO FINE SANDY MUDSTY)

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

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
20	Quartz
5	Feldspars
1	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
2	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
1	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
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Namofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Silicoflagellates
	Sponge Spicule
	Neuritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitc Grain
	Araginitic Graing
	Sideritic Graing

[illegible]

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 15/11/2012

Expedition: 338 Observer: [Signature]

Site: C0002 Hole: F Core: 233 Sect.: SWW Interval:

Sediment Name: SILTSTONE (TO V. FINE SANDS) (MUDDY)

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
20	Quartz		Nannofossils		Calcareous Grain
4	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
	Glaucanite		Radiolarians		Opaque Grain
69	Clay Minerals		Silicoflagellates		
2	Zeolites		Sponge Spicules		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
2	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 15/11/2012

Expedition: 338 Observer: KJR

Site: C0002 Hole: F Core: 235 Sect.: SMW Interval:

Sediment Name: VERY FINE SAND (muddy)

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
26	Quartz		Nannofossils		Calcareous Grain
6	Feldspars		Foraminifers		Sapropellic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
61	Glauconite		Radiolarians	2	Opaque Grain
	Clay Minerals		Silicoflagellates		
2	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites				
	Lithic Grain		Spherical Particles		
	Sedimentary Lithic Grain		Elliptical Particles		
2	Igneous Lithic Grain		Bioclast		
	Metamorphic Lithic Grain		Molluscan		
			Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peboid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 15/11/2012

5

Interval:

Sediment Name: Very fine sand (medium)

Select one and check.Select one and check:

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338 Date 15/11/2012 Observer: [Signature]

Site: C0002 Hole: F Core: 240 Sect.: SMW Interval:

Sediment Name: VERY FINE SAND (Muddy)

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
25	Quartz		Nannofossils		Calcareous Grain
6	Feldspars		Foraminifers		Sapropelic Grain
2	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom	3	Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
62	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 16/11/2012

Observer:

Interval:

V. FINE SAND

	Percent Texture		
	Sand	Silt	Clay

Select one and check.

[illegible]

Remarks:

Date 16/11/2012

833

✓

Hole: 4

253

7

Interval:

51715 ENGLISH (KSRM)

[illegible]

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		
	Minerals		Calcareous Grain		Others
18	Quartz		Namofossils		Gypsiferous Grain
4	Feldspars		Foraminifers		Calcareous Grain
	Micas		Siliceous Grain		Sapropelic Grain
	Ferromagnesian Minerals		Diatom		Mn Nodules/ Crusts
	Glauconite		Radiolarians	2	Pyrite Grain
75	Clay Minerals		Silicoflagellates		Opaque Grain
	Zeolites		Sponge Spicule		
1	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 16/11/2012

3

Interval:

Sediment Name: SILTSTONE (mudstn)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment	Chemical Sediment	Percent Texture
				Siliciclastic	Volcaniclastic	Sand
						Silt
						Clay

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
19	Quartz		Namofossils		Calcareous Grain
3	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians	2	Opaque Grain
75	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
1	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Remarks:

Date 16/11/2012

338

2

Hole: 4

258

Sum

Interval:

CAZU (1)

	Percent Texture		
	Sand	Silt	Clay

Select one and check:

Select one and check

[illegible]

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 16/11/2012

Expedition: 338 Observer: [Signature]

Site: C0002 Hole: F Core: 260 Sect.: SW Interval:

Sediment Name: SILTSTONE (muddy)

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain				Others
	Minerals		Calcareous Grain				Gypsiferous Grain
16	Quartz		Nannofossils				Calcareous Grain
4	Feldspars		Foraminifers				Sapropelic Grain
1	Micas		Siliceous Grain				Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom			2	Pyrite Grain
	Glaucanite		Radiolarians				Opaque Grain
75	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
1	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite		Neritic Grain				
	Calcite		Ooid				
	Oolites		Spherical Particles				
	Lithic Grain		Elliptical Particles				
	Sedimentary Lithic Grain		Bioclast				
	Igneous Lithic Grain		Molluscan				
1	Metamorphic Lithic Grain		Algal				
			Pellet				
			Molluscs				
			Echinoderms				
			Others				
	Volcaniclastic Grain		Intraclast				
	Scoria / Pumice		Carbonate Rock Fragments				
	Scoria		Peloid				
	Pumice		Pisolite				
	Volcaniclastic Lithic Grain		Calcareous Grain				
	Picritic Lithic Grain		Dolomitic Grain				
	Basaltic Lithic Grain		Araginitic Grain				
	Andesitic Lithic Grain		Sideritic Grain				
	Dacitic Lithic Grain						
	Rhyolitic Lithic Grain						
	Crystal Grain						
	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Date 24/11/2012

8
9
9

Site: C5002

Core: 261 Sect.: Sww

Sediment Name:

SILTY CLAYSTONE

Granular Sediment	Chemical Sediment
Siliciclastic	Volcaniclastic
	Peragic
	Neritic

Select one and check.

Select one and check.

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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Arginitic Graing
	Sideritic Graing

Fill percentage (Total must be 100).

[illegible]

Remarks:

Date 15/1/2012

Observer: 

Interval:

[illegible]

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		
	Minerals		Calcareous Grain		Others
20	Quartz		Namofossils		Gypsiferous Grain
4	Feldspars		Foraminifers		Calcareous Grain
	Micas		Siliceous Grain		Sapropelic Grain
1	Ferromagnesian Minerals		Diatom		Mn Nodules/ Crusts
69	Glauconite		Radiolarians	2	Pyrite Grain
	Clay Minerals		Silicoflagellates		Opaque Grain
2	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
1	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 16/11/2012

Observer: [Signature]

Core: 265 Sect.: SW

4705 DM

[illegible]

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
10	Quartz	TR	Namofossils		Calcareous Grain
2	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
82	Glauconite		Radiolarians	2	Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	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				
1	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338 Date: 16/11/2012 Observer: [Signature]

Site: C002 Hole: F Core: 767 Sect.: S.W. Interval:

Sediment Name: SILTSTONE (muddy) FEW W. FINE GRAIN

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Neritic	Sand	Silt
✓										

Select one and check.

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
15	Quartz		Nannofossils		Calcareous Grain
5	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
1	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
	Glaucanite		Radiolarians		Opaque Grain
73	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
2	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
2	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	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				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Date 16/11/2012

Observer: 

Interval: _____

FINE SANDS G

Percent Texture		
Sand	Silt	Clay

Select one and check.

[illegible]

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 16/11/2012

Expedition: 338

Observer: [Signature]

Site: C0002 Hole: F Core: 272 Sect.: SMM

Interval:

Sediment Name: SILTSTONE (muddy)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture	
				Siliciclastic	Volcaniclastic	Peragic	Neutric	Sand	Silt
✓									

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
14	Quartz		Nannofossils		Calcareous Grain
3	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
79	Glaucanite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
1	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neutric Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
1	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picrotic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 16/11/2012

Expedition:

338

Observer: KJ

Site: C0002 Hole: F

Core: 274 Sect.: SW

Interval:

Sediment Name: SILTY MUDSTONE

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
<u>✓</u>			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic

Select one and check.

Percent Texture	
Sand	Silt Clay

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
<u>8</u>	Quartz
<u>2</u>	Feldspars
<u>1</u>	Micas
	Ferromagnesian Minerals
<u>86</u>	Glaucanite
	Clay Minerals
<u>1</u>	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
<u>1</u>	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 Fragments
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Grain
	Sideritic Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 16/11/2012

Expedition: 338 Observer: GP

Site: C0002 Hole: F Core: 280 Sect.: SWN Interval:

Sediment Name: SILTSTONE (MUDDY)

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
15	Quartz		Nannofossils		Calcareous Grain
4	Feldspars		Foraminifers		Sapropellic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
75	Glaucanite		Radiolarians		Opaque Grain
2	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
1	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Picritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 16/11/2012

Expedition: 338 Observer: KJL

Site: C0002 Hole: F Core: 282 Sect.: SMU Interval:

Sediment Name: SILTSTONE (MUDRY) FEW V. FINE SAND GRAINS

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

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
10	Quartz		Nannofossils		Calcareous Grain
2	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
83	Glaucinite		Radiolarians		Opaque Grain
	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
1	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
1	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	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				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 16/11/2012

Expedition: 338 Observer: [Signature]

Site: C0002 Hole: F Core: 284 Sect.: Smw Interval:

Sediment Name: SANDY SILTSTONE (Mudst)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Neritic	Sand	Silt
✓										

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
15	Quartz		Namofossils		Calcareous Grain
4	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glaucanite		Radiolarians	3	Opaque Grain
77	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
1	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	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				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 16/11/2012

Expedition: 338 Observer: KJH

Site: 0002 Hole: F Core: 286 Sect.: SW Interval:

Sediment Name: VERY FINE SAND (muddy)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Neritic	Sand	Silt
✓										

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain				Others
	Minerals		Calcareous Grain				Gypsiferous Grain
18	Quartz		Nannofossils				Calcareous Grain
6	Feldspars		Foraminifers				Sapropelic Grain
	Micas		Siliceous Grain				Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom			3	Pyrite Grain
69	Glaucanite		Radiolarians				Opaque Grain
2	Clay Minerals		Silicoflagellates				
	Zeolites		Sponge Spicule				
	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite		Neritic Grain				
	Calcite		Ooid				
	Oolites		Spherical Particles				
	Lithic Grain		Elliptical Particles				
	Sedimentary Lithic Grain		Bioclast				
	Igneous Lithic Grain		Molluscan				
2	Metamorphic Lithic Grain		Algal				
			Pellet				
			Molluscs				
			Echinoderms				
			Others				
	Volcaniclastic Grain		Intraclast				
	Scoria / Pumice		Carbonate Rock Fragments				
	Scoria		Peloid				
	Pumice		Pisolite				
	Volcaniclastic Lithic Grain		Calcareous Grain				
	Picritic Lithic Grain		Dolomitic Grain				
	Basaltic Lithic Grain		Araginitic Grain				
	Andesitic Lithic Grain		Sideritic Grain				
	Dacitic Lithic Grain						
	Rhyolitic Lithic Grain						
	Crystal Grain						
	Vitric Grain						

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Expedition: 338 Date: 24/11/2012 Observer: [Signature]

Site: C5002 Hole: F Core: 288 Sect.: SMW Interval:

Sediment Name: SILTY CLAYSTONE (FEW V. FINE SAND GRAINS)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture		
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Neritic	Sand	Silt
✓										

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
15	Quartz		Nannofossils		Calcareous Grain
3	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom	2	Pyrite Grain
	Glaucanite		Radiolarians		Opaque Grain
79	Clay Minerals		Silicoflagellates		
	Zeolites		Sponge Spicule		
1	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
			Others		
	Volcaniclastic Grain		Intraclast		
	Scoria / Pumice		Carbonate Rock Fragments		
	Scoria		Peloid		
	Pumice		Pisolite		
	Volcaniclastic Lithic Grain		Calcareous Grain		
	Pteritic Lithic Grain		Dolomitic Grain		
	Basaltic Lithic Grain		Araginitic Grain		
	Andesitic Lithic Grain		Sideritic Grain		
	Dacitic Lithic Grain				
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

233

Observer:

Interval:

VERY FINE SANDS (mud-5)

	Percent Texture		
	Sand	Silt	Clay

Select one and check.

[illegible]

Remarks:

Date 24/11/2012

Observer:

Core: 311 Sect.: 500

Interval:

SILTY CLAYSTONE

	Percent Texture		
	Sand	Silt	Clay

Select one and check.

[illegible]

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 24/11/2012

Expedition: 338 Observer: [Signature]

Site: C0002 Hole: F Core: 312 Sect.: SMW Interval:

Sediment Name: VERY FINE SAND (muddy)

Smear Slide	Thin Section	Coarse Fraction	Grain Mount	Granular Sediment		Chemical Sediment		Percent Texture			
				Siliciclastic	Volcaniclastic	Siliciclastic	Peragic	Neritic	Sand	Silt	Clay
											

Select one and check.

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain Minerals		Pelagic Grain		Calcareous Grain		Others
35	Quartz		Calcareous Grain		Nannofossils		Gypsiferous Grain
7	Feldspars				Foraminifers		Calcareous Grain
	Micas				Siliceous Grain		Sapropellic Grain
1	Ferromagnesian Minerals				Diatom		Mn Nodules/ Crusts
4-7	Glaucanite				Radiolarians	1	Pyrite Grain
	Clay Minerals				Silicoflagellates		Opaque Grain
	Zeolites				Sponge Spicule		
2	Heavy Minerals						
	Pyrite						
	Phospholite						
	Aragonite						
	Calcite						
	Oolites						
	Lithic Grain						
3	Sedimentary Lithic Grain						
1	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						
3	Vitric Grain						

Fill percentage (Total must be 100).

Remarks: