


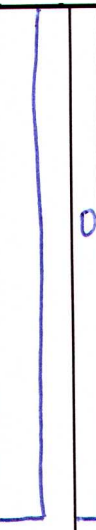

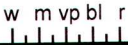








# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 1	Type H	Section 3
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Date 2/12/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">0</div> <div style="margin-bottom: 5px;">10</div> <div style="margin-bottom: 5px;">20</div> <div style="margin-bottom: 5px;">30</div> <div style="margin-bottom: 5px;">40</div> <div style="margin-bottom: 5px;">50</div> <div style="margin-bottom: 5px;">60</div> <div style="margin-bottom: 5px;">70</div> <div style="margin-bottom: 5px;">80</div> <div style="margin-bottom: 5px;">90</div> <div style="margin-bottom: 5px;">100</div> <div style="margin-bottom: 5px;">110</div> <div style="margin-bottom: 5px;">120</div> <div style="margin-bottom: 5px;">130</div> <div style="margin-bottom: 5px;">140</div> <div style="margin-bottom: 5px;">150</div> <div style="margin-bottom: 5px;">160</div> </div>									<p>Dark grayish brown (10YR 4/2) sandy, silty clay, laminated by color on a cm- scale; laminae are steeply inclined diamict intraclasts are common (gray)</p>

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 2	Type H	Section 1
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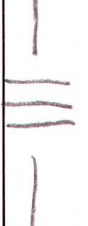


Date 11/02/14	Time 09:30	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness						Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r	a				
0			<p style="text-align: center;">intra beds (silty clay, greenish gray)</p> <p style="text-align: center;">180µm clay</p> <p style="text-align: center;">clay</p>										3 - grayest brown silty clay with dispersed clay (10µm 5/2)
10													1 - moderately to well sorted
20													1 - intra clay (11µm clay)
30													at 20-105cm
40													• dispersed sand grains in isolated laminae
50													• laminae look like inclined
60													• 100-120cm → N laminae → Ø 22mm thickness
70													• lamination by color and grain size
80													
90													
100													
110													
120													
130													
140													
150													
160													

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 2	Type H	Section 2
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Date 12/02/14	Time 09:45	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description	
<div style="display: flex; align-items: center;">  </div>			<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">  <p style="margin-left: 20px;">0.5-2cm Laminae thickness</p> </div> <div style="margin-bottom: 20px;">  <p style="margin-left: 20px;">Laminae thickness increases</p> </div> <div style="margin-bottom: 20px;">  <p style="margin-left: 20px;">Laminae thickness increases</p> </div> <div style="margin-bottom: 20px;">  <p style="margin-left: 20px;">3-6cm Laminae thickness</p> </div> </div>							<ul style="list-style-type: none"> <li>• grayish brown clay (10YR 5/2)</li> <li>• lamination by color</li> <li>• very well sorted</li> <li>• very few dispersed sand grains</li> <li>• laminae inclined slightly disturbed</li> <li>• clay still white part at top</li> </ul>

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 2	Type H	Section 3
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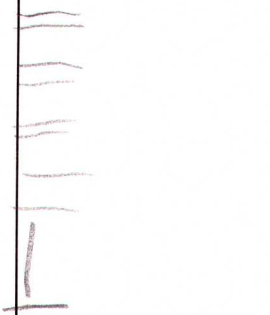
Date 19.07.14	Time 09:55	Observers MUSP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Roundness	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160			silt laminations						brown clay (F.S/R 4/2) • lamination by color (faint) • laminae inclined • silt laminae at 44cm • very well sorted

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 2	Type H	Section CC
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Date 12.02.14	Time 10:00	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting	Round-ness	Color	Accessories	Core Disturbance	Description
				w m vp bl r	a				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160									<ul style="list-style-type: none"> <li>• brown clay (7.5/R 412)</li> <li>• laminar by color</li> <li>• very well sorted (fine)</li> <li>• fine-silt laminae</li> <li>• slightly disturbed</li> <li>• laminae thickness ~2cm?</li> </ul>

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 3	Type H	Section 1
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Date 2/12/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting w m vp bl r a	Round-ness	Color	Accessories	Core Disturbance	Description
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0</div> <div style="margin-bottom: 10px;">10</div> <div style="margin-bottom: 10px;">20</div> <div style="margin-bottom: 10px;">30</div> <div style="margin-bottom: 10px;">40</div> <div style="margin-bottom: 10px;">50</div> <div style="margin-bottom: 10px;">60</div> <div style="margin-bottom: 10px;">70</div> <div style="margin-bottom: 10px;">80</div> <div style="margin-bottom: 10px;">90</div> <div style="margin-bottom: 10px;">100</div> <div style="margin-bottom: 10px;">110</div> <div style="margin-bottom: 10px;">120</div> <div style="margin-bottom: 10px;">130</div> <div style="margin-bottom: 10px;">140</div> <div style="margin-bottom: 10px;">150</div> <div style="margin-bottom: 10px;">160</div> </div>			<p style="text-align: center;">Z</p>						<p>0-82 cm: Dark grayish brown (10YR 4/2) silty clay; light colored laminae spaced 2-3 cm apart varve-like laminae by color;</p> <p>- <del>common</del> <sup>few</sup> invertebrates, although small in size sharp <sup>color</sup> contact at 82 cm.</p> <p>82-85 cm: dark brown silty clay interbed, massive</p> <p>61-64: reverse micro-faults</p> <p>-85-150 cm: Dark gray (2.5Y 4/1) parallel, planar laminated silty clay; distinct varve-like silt-clay couplets, <del>are</del> <sup>are</sup> fining upward within each couplet.</p> <p>- changes in inclination of bedding at ~142 cm</p>



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 3	Type H	Section 2
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Date 2/12/14	Time	Observers MK/SP
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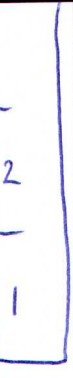





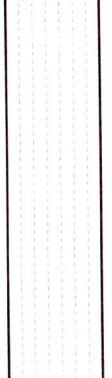

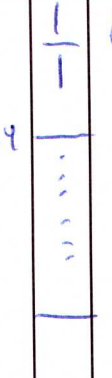
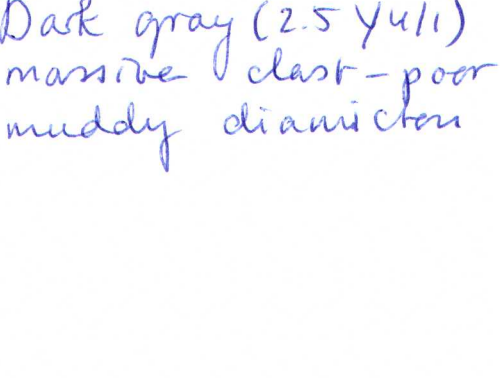
[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0												: Dash gray (2.5 Y 4/1) silty clay 0-12 cm: planar, parallel laminated on a cm scale : 12-73 cm: interstratified sandy silt and silty clay; lamination on cm-dm scale with silt laminae sets up to 2 cm thick : 73-130 cm: Dark grayish brown (10 YR 4/2) stratified clast-poor muddy diamicton; bedding on cm-dm scale by color and texture
10												
20												
30												
40												
50												
60												
70												
80												
90												
100												
110												
120												
130												
140												
150												
160												



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 3	Type H	Section CC
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Date 2/12/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure	Fossils	Sorting					Round-ness	Color	Accessories	Core Disturbance	Description
					w	m	vp	bl	r					
<div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>0</p> <p>10</p> <p>20</p> <p>30</p> <p>40</p> <p>50</p> <p>60</p> <p>70</p> <p>80</p> <p>90</p> <p>100</p> <p>110</p> <p>120</p> <p>130</p> <p>140</p> <p>150</p> <p>160</p> </div> </div>														

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 4	Type H	Section 1
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Date 12.02.14	Time 11:20	Observers M4/S12
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[cm]	Graphic Lith. Lith. Bioturb. Structure   Fossils	Sorting Round-ness		Color	Accessories	Core Disturbance	Description
		w	m vp bl r a				
0						3	
10	M						• dark gray class-poor muddy diamict
20	9						• 5Y 4/1
30	18						• slightly disturbed
40	14						• poorly to very poorly sorted
50	9						
60	12						
70	11						
80	7						
90	8						
100	5						
110	12						
120	15						
130	8						
140	4						
150							
160							

*class*

*relatively soft*

*more compacted*






# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 5	Type N	Section 1
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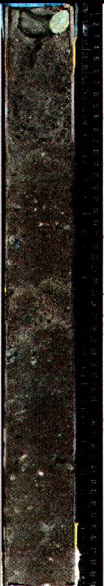
Date 2/12/14	Time	Observers MK/SP
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[cm]	Clasts Graphic Lith. Bioturb.	Structure	Fossils	Sorting Round- ness w m vp bl r a	Color	Accessories	Core Disturbance	Description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160	 20 12 11 6							Very dark gray (2.5 x 3/1) massive clast-rich sandy diamicton, very consolidated and compact (saw marks on the surface) - common rock clasts up to 3.5 cm in $\phi$ - many granules in the top 10 cm
	cut with saw							

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp.	Site	Hole	Core	Type	Section
347	64	A	7	N	1

Date	Time	Observers
2/12/14	12:15	SP/TK/014



[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting Roundness w m vp bl r a	Color	Accessories	Core Disturbance	Description
0							<p style="color: blue;">Dark gray (2.5Y 4/1)</p> <ul style="list-style-type: none"> <li>- Clast-rich sandy siltstone</li> <li>- Some layers/beds, which are more <del>fine</del> fine-grained or sandy</li> <li>- Maximum clast size 20mm</li> <li>- <del>Consolidated</del> consolidated and compacted</li> </ul>
10		28					
20		19					
30		10					
40		19					
50		18					
60							
70							
80							
90							
100							
110							
120							
130							
140							
150							
160							



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 8	Type N	Section 1
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Date 12 Feb 2014	Time 12:20	Observers OH
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness						Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r	a				
0  10  20  30  40  50  60  70  80  90  100  110  120  130  140  150  160		18  26  17  20										<ul style="list-style-type: none"> <li>- Dark gray (2.5Y 4/1)</li> <li>- Clast-rich sandy diamictite</li> <li>- mostly massive, some more fine-grained layers/beds</li> <li>- consolidated and compacted</li> <li>- maximum clast size 30mm</li> <li>- topmost 3-5 cm looser sediment, less gravel clasts</li> </ul>	

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 9	Type N	Section 1
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Date R. 02/14	Time 11:05	Observers MVP/SP
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[cm]	Graphic Lith.	Biostrat.	Structure   Fossils	Sorting Roundness							Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r	a					
0	16													• dark greenish gray
10	15													• dark-violet sandy diamicton (10Y 4/1)
20	20		~											• poorly sorted
30	10													• slightly disturbed
40	14		U											• weak banding by color
50	11													• cut with stone saw
60	8		U											• marks of sawing
70														• very compacted
80														
90														
100														
110														
120														
130														
140														
150														
160														

faint color bands

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 10	Type N	Section 1
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Date 12/02/14	Time 12:30	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness							Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r	a					
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160		10  8		faint color banding									<ul style="list-style-type: none"> <li>• dark greenish gray dark-vid sandy dicam i c on</li> <li>• banding by color (weat)</li> <li>• 2 cracks at 13 and 17m → washed sand?</li> <li>• cutting by sand</li> </ul>	

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 11	Type N	Section 1
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Date 19.02.14	Time 12:40	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness							Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r	a					
0	14													• dark greenish gray
10	11													• dark-red diamictite
20	8		<p style="margin-left: 20px;">coarse sand with mud</p>											• poorly sorted (10/4/1)
30	9		<p style="margin-left: 20px;">VOID</p>											• color banding? 0-8cm
40														• coarse sand enrichment 13-15cm
50														• cutting by saw (marks)
60														• slightly disturbed
70														
80														
90														
100														
110														
120														
130														
140														
150														
160														





# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 14	Type N	Section 1
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Date 2/12/14	Time	Observers MK/SP
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160	8 13 9	0									≡ Dark (greenish) gray (10x u/i) clast-rich ≡ Sandy diamicton; ≡ clasts up to 1.5 cm φ (granite) appearing ≡ in clusters or nests at 14-17cm and 21-23 cm., subangular Core break at 9 and 26 cm.	







# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 17	Type N	Section 1
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Date 2/12/14	Time	Observers MK/SP
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[cm]	Clasts Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round- ness <small>w m vp bl r a</small>	Color	Accessories	Core Disturbance	Description
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0</div> <div style="margin-bottom: 10px;">10</div> <div style="margin-bottom: 10px;">20</div> <div style="margin-bottom: 10px;">30</div> <div style="margin-bottom: 10px;">40</div> <div style="margin-bottom: 10px;">50</div> <div style="margin-bottom: 10px;">60</div> <div style="margin-bottom: 10px;">70</div> <div style="margin-bottom: 10px;">80</div> <div style="margin-bottom: 10px;">90</div> <div style="margin-bottom: 10px;">100</div> <div style="margin-bottom: 10px;">110</div> <div style="margin-bottom: 10px;">120</div> <div style="margin-bottom: 10px;">130</div> <div style="margin-bottom: 10px;">140</div> <div style="margin-bottom: 10px;">150</div> <div style="margin-bottom: 10px;">160</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">20</div> <div style="margin-bottom: 10px;">15</div> <div style="margin-bottom: 10px;">11</div> <div style="margin-bottom: 10px;">9</div> <div style="margin-bottom: 10px;">13</div> <div style="margin-bottom: 10px;">10</div> <div style="margin-bottom: 10px;">6</div> <div style="margin-bottom: 10px;">6</div> <div style="margin-bottom: 10px;">8</div> <div style="margin-bottom: 10px;">12</div> <div style="margin-bottom: 10px;">11</div> <div style="margin-bottom: 10px;">7</div> </div>		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">2</div> <div style="margin-bottom: 10px;">↓</div> <div style="margin-bottom: 10px;">↑</div> <div style="margin-bottom: 10px;">2</div> <div style="margin-bottom: 10px;">↓</div> <div style="margin-bottom: 10px;">↓</div> </div>					<p>Dark (greenish) gray (10 x 4/1) clast-rich muddy diamictite; interbedded with interlaminated silt and silty sand, convoluted; some soft-sediment deformed mud laminae are also visible at 10-22 cm clasts up to ~ 2 cm, subangular - angular (streaks at 34-66 cm are not saw marks, but actual mud laminae)</p>



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 19	Type N	Section 1
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Date 20214	Time 14:11	Observers MUSP
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
			w	m	vp	bl	r				
0	9										dark greenish gray (last-vid) sandy diamicton (10) 4/11
10	4										woody sorted
20	8										slightly (0-79cm) to moderately (79-114cm)
30											disturbed
40	12										cracks at 17cm, 79cm, 101cm 107cm
50	16										
60	10										
70	11										
80	9										
90	5										
100	6										
110	8										
120	3										
130											
140											
150											
160											





# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 22	Type N	Section 1
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Date 2/12/14	Time	Observers SP/MK
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting Roundness							Color	Accessories	Core Disturbance	Description
			w	m	vp	bl	r	a					
0	2												Dark greenish gray (10x4/1) clast- <del>rich</del> <sup>typical</sup> sandy diamictite, Some clast clusters at 72-73 and 75-76 clasts up to 4cm in size subangular to rounded top 9cm is soft
10	9												
20	11												
30	12												
40	10												
50	7												
60	5												
70	10												
80	8												
90	7												
100	7												
110	12												
120													
130													
140													
150													
160													

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 23	Type N	Section 1
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Date 12/2/14	Time	Observers SCJ/JBS
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[cm]	Graphic Lith. Bioturb.	Structure   Fossils	Sorting Roundness w m vp bl r a	Color	Accessories	Core Disturbance	Description
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 5px;">0</div> <div style="margin-top: 5px;">160</div> </div>				<p>5/8</p> <p>5/1</p>		<p>slight</p>	<p>Sand-silt-clay matrix supporting a range of clasts - polymict. including coarse-grained qtz, sandstone, limestone, shale and metamorphic/crystalline -gneiss, chert.</p> <p>clast sizes range from mm to 2cm from angular to sub rounded.</p> <p style="margin-left: 40px;">0-10cm = 20 clasts</p> <p style="margin-left: 40px;">clast content <math>\geq</math> 25%</p> <p style="margin-left: 40px;">clast rich muddy diamict</p> <hr style="width: 80%; margin-left: 40px;"/>



# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 24	Type N	Section 1
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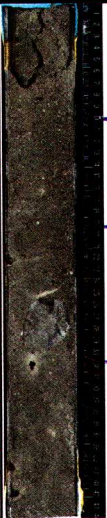
Date 12/2 14	Time 15:46	Observers JBT/cst
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness										Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r	a								
0	[Photograph of core sample]	10												54			GRMY, CLAST POOR
10														5/1			SANDY DIAMICT,
20																	MASSIVE, MAX CLAST
30																	2CM, SUBROUND TO
40																	ANGULAR, CUBIC AND
50			10														BLADED, CRYSTALLINE,
60			12														PALEOZOIC LIMESTONE,
70			15														PYRIT, SANDSTONE.
80																	VOID IN THE INTERVAL
90																	70 - 34cm,
100																	MODERATELY TO
110																	HEAVILY DISTURBED
120																	
130																	
140																	
150																	
160																	

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 25	Type P	Section 1
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Date 12/2/94	Time 15:55	Observers BS/CSJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness										Color	Accessories	Core Disturbance	Description	
				w	m	vp	bl	r	a									
0			5												54			GRAY, CLAST POOR
10			40												5/1			SANDY-CLAY DIAMCT, MASSIVE
20				6														MAX CLAST 5 CM, PALAEZOIC LIMESTONE,
30				5														SUBROUNDET TO ANGULAR, CUBIC AND BLADED, CRYSTALLINE, LIMESTONE PAL. MODERATELY DISTURBED
40																		
50																		
60																		
70																		
80																		
90																		
100																		
110																		
120																		
130																		
140																		
150																		
160																		






# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 28	Type N	Section 1
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Date 12/2/14	Time	Observers SCS/TBJ
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[cm]	Graphic Lith.	Bioturb.	Structure	Fossils	Sorting Roundness					Color	Accessories	Core Disturbance	Description
					w	m	vp	bl	r				
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160										5y 5/r		mod 50%y	<p>Gray-brown sand-silt-clay supporting diamict. Poorly sorted. clasts vary from mm to 1.8cm of varying angularity angular to sub-rounded and provenance (poly-mict) with crystalline metamorphic gneissose clasts, limestone sandstones and chert.</p> <p>clasts = <math>\geq 30\%</math> over 2mm</p> <p>(muddy clastoid diamict)</p> <p>From 10-20cm = 22 clasts</p>
													<p>voids 5mm 44.5cm</p>

# IODP-MSP (Exp. 347) VISUAL SECTION UNIT DESCRIPTION

Exp. 347	Site 64	Hole A	Core 32	Type N	Section 1
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Date 12/2/14	Time	Observers SCT/TBJ
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[cm]	Graphic Lith.	Bioturb.	Structure   Fossils	Sorting Round-ness					Color	Accessories	Core Disturbance	Description
				w	m	vp	bl	r	a			
0  10  20  30  40  50  60  70  80  90  100  110  120  130  140  150  160											poor  Gravel, poorly sorted. 5mm clasts of limestone chalk in fill at the base. Poly mixt with clasts of varying angularity and source. Crystalline and sed. origins	