

SITE 1023 HOLE A CORE 1H CORED 0.0 - 9.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1	VOID	1	Quaternary		○ ○ ○ ○	S	<p>CLAYEY SILT to SILTY CLAY, SILT, and SAND</p> <p>Major Lithology: Greenish gray to light olive gray CLAYEY SILT to SILTY CLAY, with local layers and irregular lenses of SILT and SAND in Section 2, 13 cm and 40 cm, Section 3, 7 cm and 134 cm, Section 4, 26 cm and 108 cm, Section 5, 3 cm, 50 cm, 58 cm, and 135 cm, Section 6, 116 cm and 135 cm, Core Catcher, 21 cm. Uppermost 50 cm of this lithology contains higher contents of nannofossils and diatoms.</p> <p>Minor Lithology: Medium gray to light medium gray SAND with sharp base, diffuse top, and normal size grading.</p>
2		2			○ ○ ○ ○	IW/WR	
3		3			○ ○ ○ ○	S PP	
4		4			○ ○ ○ ○	IW/WR	
5		5			○ ○ ○ ○	S PP	
6		6			○ ○ ○ ○	IW/WR	
7		5		△	S		
8		6			IW/WR		
9		6			PP		
		CC			WR	S	



SITE 1023 HOLE A CORE 2H CORED 9.3 - 18.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description	
1		1	Quaternary			PP	CLAYEY SILT to SILTY CLAY, SILT, and SAND	
1		1				WR	Major Lithology: Light greenish gray to olive gray CLAYEY SILT to SILTY CLAY. Local color banding, darker green patches, and bioturbation.	
						S		
						IW/WR		
2		2					S	Minor Lithologies: Greenish gray to light medium gray SILT and fine SAND with sharp bases, diffuse tops, normal size grading, and local planar laminae. Thin beds of silt and sand occur in Section 1, 100 cm, Section 2, 60 cm, 102 cm, 110 cm, and 126 cm, Section 3, 15 cm, 52 cm, 91 cm, 95 cm, and 100 cm, Section 4, 32 cm, 63 cm, 92 cm, and 120 cm, Section 5, 53 cm, 94 cm, 105 cm, and 120 cm, Section 6, 42 cm and 122 cm, and Section 7, 10 cm, 20 cm, and 40 cm.
3		3				WR		
4		3				S	PP	
4		3			S			
5		4				WR	General Description: Lithologies are interbedded throughout the core and probably represent turbidites and hemipelagic deposits.	
6		4				WR		
6		5				S	WR	
7		5				WR		
8		6				PP	IW/WR	
8		6				IW/WR		
9		7				S	PP	
9		7				S		
		CC				WR		

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary			S	CLAYEY SILT to SILTY CLAY, SILT, and SILTY SAND to SAND
1		1				PP	Major Lithology: Light greenish gray to olive gray CLAYEY SILT to SILTY CLAY. Local color bands, darker green patches, and bioturbation.
2		2				WR	Minor Lithologies: Greenish gray to light medium gray SILT and fine-grained SAND to SILTY SAND with sharp bases, diffuse tops, normal size grading, and local planar laminae. Bases of beds in Section 1, 61 cm, 96 cm, 103 cm, 118 cm, and 140 cm, Section 2, 22 cm, 62 cm, 95 cm, 114 cm, 132 cm, and 143 cm, Section 3, 5 cm, 30 cm, 62 cm, 77 cm, 99 cm, and 131 cm, Section 4, 10 cm, 39 cm, 82 cm, 99 cm, 122 cm, and 148 cm, Section 5, 6 cm, 32 cm, 47 cm, 79 cm, 107 cm, 129 cm, and 135 cm, Section 6, 7 cm, 29 cm, 65 cm, 97 cm, Section 7, 2 cm, and Core Catcher, 28 cm.
2		2				S	
3		3				WR	
3		3				S	
4		4				PP	
4		4				WR	
5		5				S	
5		5				PP	
6		6			WR	General Description: Lithologies are interbedded throughout the core and probably represent turbidites and hemipelagic deposits.	
7		7			S		
8		8			IW/WR		
8		8			S		
9		9			S		
10		CC			S		

SITE 1023 HOLE A CORE 4H CORED 28.3 - 37.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description						
1		1	Quaternary			PP WR	CLAYEY SILT to SILTY CLAY, SILT, SILTY SAND, and SAND						
2							S S S WR	Major Lithology: Light greenish gray to olive gray CLAYEY SILT to SILTY CLAY. Local color banding, darker green patches, and bioturbation.					
3								Minor Lithologies Medium greenish gray SILT, SILTY SAND, and SAND. Normal size grading, sharp bases, gradational tops, and local planar laminae. Bases located in Section 1, 5 cm, 17 cm, 34 cm, 41 cm, 59 cm, 71 cm, 82 cm, 100 cm, 115 cm, and 135 cm, Section 2, 6 cm, 27 cm, 80 cm, 116 cm, 130 cm, Section 3, 24 cm, 68 cm, 95 cm, 122 cm, and 143 cm, Section 4, 47 cm, 72 cm, and 143 cm, Section 5, 20 cm, 37 cm, and 112 cm, Section 6, 22 cm, 59 cm, 103 cm, 131 cm, and 139 cm, Section 7, 37 cm and 52 cm, and Core Catcher, 7 cm and 38 cm.					
4								PP WR	General Description: Lithologies are rhythmically interbedded throughout core and probably represent turbidites and hemipelagic muds.				
5									S ^{WR} S PP				
6										IW/WR			
7											PP S		
8												WR	
9													CC
10													

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary			PP	CLAYEY SILT to SILTY CLAY, SILT, SILTY SAND, and SAND
2		2		WR	Major Lithologies: Light olive gray to olive gray, light greenish gray, and medium gray CLAYEY SILT to SILTY CLAY. Local silty laminae and bioturbation. Thin to thick beds of fine grained, greenish gray SAND and SILTY SAND. Sharp or erosional bases, normal size grading, gradational tops, local planar laminae. Bases of beds in Section 1, 20 cm, 56 cm, 86 cm, and 148 cm, Section 2, 26 cm, 47 cm, 71 cm, and 92 cm, Section 3, 24 cm, 47 cm, 98 cm, and 138 cm, Section 4, 17 cm, Section 5, 13 cm, 60 cm, 73 cm, and 114 cm, Section 6, 15 cm, 51 cm, 90 cm, and 132 cm, and Section 7, 24 cm.		
3		3		WR			
4		3		S PP			
5		4		WR	Minor Lithology: Thin beds of SILT. Sharp bases, normal grading, gradational tops. Bases of prominent beds in Section 1, 68 cm, 103 cm, 108 cm, 119 cm, and 138 cm, Section 2, 6 cm, 54 cm, 99 cm, 102 cm, 111 cm, and 123 cm, Section 3, 72 cm and 106 cm, Section 4, 51 cm, 64 cm, and 79 cm, Section 6, 68 cm, and Section 7, 4 cm and 33 cm.		
6		4		WR			
7		5		S PP WR S			
8		6		IW/WR S			
9		7		WR			
		7					



SITE 1023 HOLE A CORE 6H CORED 47.3 - 56.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary			S WR PP	<p>CLAYEY SILT to SILTY CLAY, SILT, SILTY SAND, and SAND</p> <p>Major Lithologies: Medium gray to light olive gray and greenish gray CLAYEY SILT to SILTY CLAY. Local silty laminae, dark gray to black Mn-oxide or Fe-sulfide, faint color banding, and bioturbation. Interbeds of fine to medium grained, greenish gray SAND and SILTY SAND. Sharp or erosional bases, normal size grading, gradational tops, local planar laminae. Bases of beds located in Section 1, 43 cm, 85 cm, and 132 cm, Section 2, 57 cm and 99 cm, Section 3, 81 cm, 104 cm, and 148 cm, Section 4, 25 cm, 114 cm, and 150 cm, Section 5, 28 cm and 93 cm, Section 6, 5 cm and 132 cm, Section 7, 17 cm and 51 cm, Core Catcher, 15 cm.</p> <p>Minor Lithology: Thin beds of SILT. Sharp bases, normal grading, gradational tops. Bases of prominent beds located in Section 1, 92 cm and 98 cm, Section 2, 74 cm and 127 cm, Section 3, 3 cm, Section 4, 40 cm and 114 cm, Section 5, 37 cm, 46 cm, 56 cm, and 102 cm, Section 6, 38 cm, 48 cm, and 145 cm.</p> <p>General Description: Lithologies are rhythmically interbedded throughout core and probably represent turbidites and hemipelagic mud.</p>
2		2					
3		3					
4		4					
5		5					
6		6					
7		7					
8		8					
9		9					
		CC					

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary			PP	<p>CLAYEY SILT to SILTY CLAY, SILT, SILTY SAND, and SAND</p> <p>Major Lithologies: Medium gray to light olive gray and greenish gray CLAYEY SILT to SILTY CLAY. Local silty laminae, faint color banding, and bioturbation. Interbeds of fine to medium grained, greenish gray to olive gray and medium gray SAND and SILTY SAND. Sharp or erosional bases, normal size grading, gradational tops, planar laminae, rare wavy laminae. Bases of beds in Section 1, 50 cm and 122 cm, Section 2, 52 cm, 88 cm, and 131 cm, Section 3, 69 cm, Section 4, 18 cm, 40 cm, and 120 cm, Section 5, 10 cm and 106 cm, Section 6, 92 cm and 131 cm, and Section 7, 49 cm.</p> <p>Minor Lithology: Thin beds of SILT. Sharp bases, normal grading, gradational tops. Bases of prominent beds located in Section 1, 17 cm, 70 cm, and 93 cm, Section 2, 9 cm, Section 3, 19 cm, Section 5, 33 cm, Section 6, 20 cm and 40 cm, Section 7, 9 cm. Irregular patch of volcanic with small concretion in Section 2, 139 to 143 cm.</p> <p>General Description: Lithologies are rhythmically interbedded throughout core and probably represent turbidites and hemipelagic mud deposits.</p>
2		2					
3		3				S S	
4		4				PP	
5		5				S	
6		6					
7		7				S	
8		8				IW/WR	
9		9					
		CC				S	

SITE 1023 HOLE A CORE 8H CORED 66.3 - 75.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary			PP S	CLAYEY SILT to SILTY CLAY, SILT, and SAND
2		2					Major Lithologies: Greenish gray to olive gray CLAYEY SILT to SILTY CLAY with local patches of black Mn-oxide or Fe-sulfide, dark green color bands, and bioturbation. Local increases in content of calcium carbonate coincide with lighter gray color. Beds of medium gray fine SAND in Section 1, 6 cm, and 85 cm, Section 2, 35 cm and 133 cm, Section 3, 57 cm, Section 4, 65 c and 111 cm, Section 5, 6 cm and 67 cm, Section 6, 26 cm and 73 cm, Section 7, 43 cm, and Core Catcher, 15 cm. Normal size grading, sharp to erosional bases, well preserved planar laminae, gradational tops, and local wavy laminae or ripple cross-laminae.
3		3				PP S	Minor Lithology: Thin beds of SILT located in Section 1, 17 cm, 22 cm, and 114 cm, Section 2, 68 cm and 86 cm, Section 3, 18 cm, 84 cm, 112 cm, and 125 cm, Section 4, 14 cm, Section 5, 24 cm, Section 6, 149 cm, and Section 7, 16 cm. Sharp bases, normal size grading.
4		4					
5		5				PP	General Description: Lithologies are rythmically interbedded throughout core and probably represent turbidites and hemipelagic mud deposits.
6		6				IW/WR	
7		7				PP	
8		CC			S		

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary			PP	<p>CLAYEY SILT to SILTY CLAY, SILT, and SAND</p> <p>Major Lithologies: Light greenish gray to light olive gray CLAYEY SILT to SILTY CLAY. Generally homogeneous and structureless, with local wavy laminae. Interbeds of olive gray and light olive gray SAND and SILTY SAND in Section 1, 71 cm, Section 2, 3 cm and 118 cm, Section 3, 28 cm and 88 cm, Section 4, 58 cm and 130 cm, Section 5, 24 cm and 91 cm, Section 6, 29 cm and 150 cm, Section 7, 41 cm and 56 cm. Sharp to erosional bases, normal size grading, planar laminae, and gradational tops.</p>
2		2				PP	
3		3				S	
4		4				PP	
5		4				S	
6		5				PP	
7		5				PP	
8		6		IW/WR		<p>Minor Lithology: Thin beds of SILT in Section 2, 24 cm, 36 cm, 46 cm, 77 cm, 85 cm, and 126 cm, Section 3, 118 cm and 146 cm, Section 5, 53 cm, 97 cm, and 128 cm. Sharp bases, gradational tops, and normal size grading.</p> <p>General Description: Sections 6 and 7 heavily damaged by split core liner. Lithologies mixed locally by coring disturbance. Interbeds probably represent turbidites and hemipelagic mud deposits.</p>	
9		7		PP			
		CC			~		

SITE 1023 HOLE A CORE 10H CORED 85.3 - 94.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary			S S	<p>CLAYEY SILT to SILTY CLAY, SILT, and SILTY SAND</p> <p>Major Lithology: Light olive gray to greenish gray CLAYEY SILT to SILTY CLAY with local silt laminae.</p> <p>Minor Lithologies: Interbeds of medium gray to medium light gray, normally graded SILTY SAND and SILT. Sharp to erosional bases in Section 1, 3 cm, 76 cm, 84 cm, 133 cm, Section 2, 12 cm, 44 cm, 133 cm, Section 2, 12 cm, 44 cm, 78 cm, and 111 cm, Section 3, 16 cm, 25 cm, 69 cm, 88 cm, and 128 cm, Section 4, 35 cm, 73 cm, 89 cm, and 128 cm, Section 5, 2 cm, 70 cm, 83 cm, and 140 cm, Section 6, 73 cm and 118 cm, and Section 7, 24 cm and 51 cm. Normal size grading, gradational tops, planar laminae, load structures.</p> <p>General Description: Lithologies are rhythmically interbedded throughout core and probably represent turbidites and hemipelagic mud deposits.</p>
1		1				PP	
2		2				WR	
3		3				S	
4		3				WR PP	
5		4				PP	
6		5				IW/WR	
7		6				PP	
8		7				S S	
9		CC					

SITE 1023 HOLE A CORE 11H CORED 94.8 - 104.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description	
1		1	Quaternary			PP	<p>CLAYEY SILT to SILTY CLAY, SILT, SILTY SAND, and SAND</p> <p>Major Lithologies: Greenish gray to olive gray CLAYEY SILT to SILTY CLAY. Generally homogeneous. Interbeds of medium gray to medium light gray SAND and SILTY SAND. Sharp to erosional bases in Section 1, 78 cm, Section 2, 61 cm and 140 cm, Section 3, 70 cm, Section 4, 59 cm and 148 cm, Section 5, 43 cm and 118 cm, and Core Catcher, 33 cm. Normal size grading, planar laminae, gradational tops.</p>	
2		2						
3		3						
4		3						PP S
5		4						
6		4						S
7		5						
8		6						PP IW/WR
9		6						
		7			PP			
		CC						

Minor Lithology:
Thin beds of medium gray to medium light gray SILT, with bases in Section 1, 103 cm, Section 3, 104 cm, Section 4, 78 cm and 104 cm, Section 5, 76 cm and 130 cm, Section 6, 1 cm, 23 cm, 47 cm, 69 cm, and 104 cm, and Section 7, 22 cm. Sharp to erosional bases, normal size grading, gradational tops.

General Description:
Lithologies are interbedded throughout core and probably represent turbidites and hemipelagic mud deposits.

SITE 1023 HOLE A CORE 12H CORED 104.3 - 113.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary			PP	<p>CLAYEY SILT to SILTY CLAY, SILT, SILTY SAND, and SAND</p> <p>Major Lithologies: Greenish gray to olive gray CLAYEY SILT. Generally homogeneous, with local silty laminae and patches of darker green color. Interbeds of medium light gray SAND and SILTY SAND. Sharp to erosional bases in Section 1, 38 cm, Section 2, 48 cm, Section 3, 49 cm, Section 4, 111 cm, Section 5, 9 cm, and Section 7, 51 cm. Normal size grading, planar laminae, gradational tops, and local load structures.</p>
2		2					
3		3					
4		4					
5		5					
6		6					
7		7					
8		8					
9		9					
10		10					
		CC					



SITE 1023 HOLE A CORE 13H CORED 113.8 - 123.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary			PP	CLAYEY SILT to SILTY CLAY, SILT, and SAND
2		2				S S S	Major Lithology: Light gray to light greenish gray CLAYEY SILT to SILTY CLAY. Generally homogeneous. Local clay-rich patches and bands with darker green color and intervals with higher contents of calcareous nannofossils.
3		3				S	Minor Lithologies: Medium light gray SAND and SILT with sharp to erosional bases in Section 1, 43 cm, Section 2, 21 and 51 cm, Section 3, 47 cm and 108 cm, Section 5, 40 cm, 85 cm, and 110 cm, Section 6, 45 cm, and Core Catcher, 11 cm.
4		4				PP	Normal size grading, planar laminae, and gradational tops. Section 3, 27 cm to 47 cm, contains eight pairs of very thin interlayers of fine sand and clayey silt.
5		5				S	General Description: Interlayered lithologies probably represent turbidites and hemipelagic mud deposits.
6		6				PP	
7		7				S	
8		8				IW/WR	
9		9				PP	
		CC					

SITE 1023 HOLE A CORE 14H CORED 123.3 - 130.0 mbsf

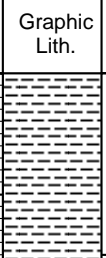

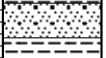




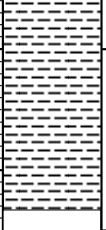

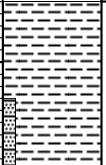

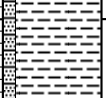

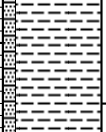


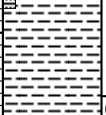




Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary		—	PP	<p>CLAYEY SILT to SILTY CLAY, SILT, SILTY SAND, and SAND</p> <p>Major Lithologies: Light greenish gray CLAYEY SILT to SILTY CLAY, mostly homogeneous with local color bands and silt laminae. Medium to light gray SAND and SILTY SAND, with sharp to erosional bases in Section 1, 56 cm and 126 cm, Section 2, 65 cm, Section 3, 55 cm, and Section 4, 74 cm. Normal size grading, planar laminae, and gradational tops.</p> <p>Minor Lithology: Thin beds of SILT in Section 1, 3 cm, Section 3, 117 cm, and Section 4, 124 cm. Sharp bases and normal size grading.</p> <p>General Description: Interbedded lithologies probably represent turbidites and hemipelagic mud deposits.</p>
1		1			—	S	
2		2			—	S	
2		2			—	S	
3		3	Quaternary		●	PP	
4		3			●	PP	
5		4			●	PP	
6		4			●	PP	
		5			IW/WR		
		CC			PP		

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary		---	PP S	CLAYEY SILT to SILTY CLAY, SILT, SILTY SAND, and SAND
2		2			---	WR PP	Major Lithology: Light olive gray CLAYEY SILT to SILTY CLAY with local silt laminae and ripple cross-laminae.
3		3			---	IW/WR	Minor Lithologies: Fine-grained SAND to SILTY SAND and SILT beds, with bases in Section 1, 45 cm, 65 cm, and 98 cm, Section 2, 12 cm, 123 cm, and 129 cm, and Core Catcher, 8 cm and 19 cm. Sharp bases, normal size grading, and gradational tops. Local load structures, planar laminae, and ripple cross-laminae.
4		CC			---	PP	General Description: Interbedded lithologies probably represent turbidites and hemipelagic mud deposits.



SITE 1023 HOLE A CORE 16X CORED 132.7 - 142.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary		●	PP	<p>CLAYEY SILT to SILTY CLAY, SILT, SANDY SILT, and SAND</p> <p>Major Lithology: Olive gray to greenish gray CLAYEY SILT to SILTY CLAY. Generally homogeneous, with local patches and thin layers of darker green color.</p> <p>Minor Lithologies: Normally graded beds of SAND, SILTY SAND, and SILT. Planar laminae. Sharp bases located in Section 1, 7 cm and 98 cm, Section 2, 72 cm, Section 3, 34 cm and 88 cm, Section 4, 11 cm, 47 cm, and 145 cm, Section 5, 54 cm and 147 cm, Section 6, 100 cm, and Core Catcher, 16 cm.</p> <p>General Description: Interbedded lithologies probably represent turbidites and hemipelagic mud deposits.</p>
2		2			●	S	
3		3			●	S	
4		3			●	PP	
5		4			●	IW/WR	
6		5			●	PP	
7		5			●	PP	
8		6		●	PP		
9		7		●	PP		
		CC				PP	

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description	
1		1	Quaternary			PP	CLAYEY SILT to SILTY CLAY, SANDY SILT, and SILT Greenish gray CLAYEY SILT to SILTY CLAY. Calcium carbonate content increases in Section 6.	
2		2						Minor Lithologies: Olive gray SILT and SANDY SILT. Bases in Section 2, 33 cm and 116 cm, Section 4, 99 cm, Section 5, 5 cm and 110 cm, and Section 6, 15 cm. Sharp bases, gradational tops, planar laminae, and normal size grading. Major Lithology:
3		3						General Description: Interbeds probably represent fine-grained turbidites and hemipelagic mud deposits.
4		4						
5		5						
6		6						
7		7				PP		
8		8				S S PP		
		CC						



SITE 1023 HOLE A CORE 18X CORED 151.9 - 161.6 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary			PP	CLAYEY SILT to SILTY CLAY, SILT, AND SANDY SILT Major Lithology: Homogeneous greenish gray to light olive gray CLAYEY SILT to SILTY CLAY.
2		2				WR	Minor Lithologies: Olive gray SANDY SILT and SILT beds in Section 1, 52 cm, and Section 5, 75 cm. Thin SILT beds in Section 3, 62 cm, Section 4, 7 cm and 65 cm, and Core Catcher, 1 cm. Sharp bases, normal grading, gradational tops, planar laminae, rare ripple cross-laminae.
3		3				PP	General Description: Interbeds probably represent fine-grained turbidites and hemipelagic mud deposits.
4		4				S	
5		5				IW/WR	
6		6				S PP	
7		7			PP		
8		8	CC				



SITE 1023 HOLE A CORE 19X CORED 161.6 - 171.2 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary		●	PP	CLAYEY SILT to SILTY CLAY, SILT, and SAND Major Lithology: Dark greenish gray to olive gray SILTY CLAY to CLAYEY SILT with local patches, very thin beds, and laminae of silt.
2		2			●	IW/WR	Minor Lithologies: Medium gray to medium light gray SILT and fine SAND. Sharp bases, normal size grading, and diffuse tops. Local planar laminae. Prominent beds in Section 1, 21 cm, 83 cm, and 117 cm, Section 2, 33 cm and 81 cm, Section 3, 49 cm and 135 cm, and Section 4, 24 cm, 55 cm, 68 cm, and 112 cm.
3		3			●	S	
4		4			●	PP	General Description: Lithologies are interbedded throughout core and probably represent thin-bedded, fine-grained turbidites and hemipelagic mud.
5		4			●	PP	
6		CC			●	S	

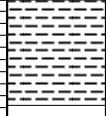

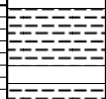
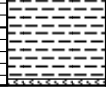

SITE 1023 HOLE A CORE 20X CORED 171.2 - 180.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary			PP	CLAYEY SILT to SILTY CLAY and SILT to SANDY SILT Major Lithology: Dark greenish gray to medium gray CLAYEY SILT to SILTY CLAY with local very thin beds of silt. Rare lithoclasts and bioturbation.
2		2		▲ ◆		S	Minor Lithology: SILT to SANDY SILT beds with thicknesses of 1 to 8 cm. Bases in Section 1, 120 cm, Section 2, 79 cm, Section 3, 27 cm, Section 4, 62 cm, Section 5, 80 cm, and Section 6, 38 cm. Sharp bases, normal size grading, and gradational tops.
3		3		▲			
4		4				PP	General Description: Interbeds probably represent thin-bedded, fine-grained turbidites and hemipelagic mud deposits.
5		5		▲			
6		6				IW/WR	
7	7	5				PP S	
8	8	6				PP	
		CC					

SITE 1023 HOLE A CORE 21X CORED 180.8 - 190.4 mbsf

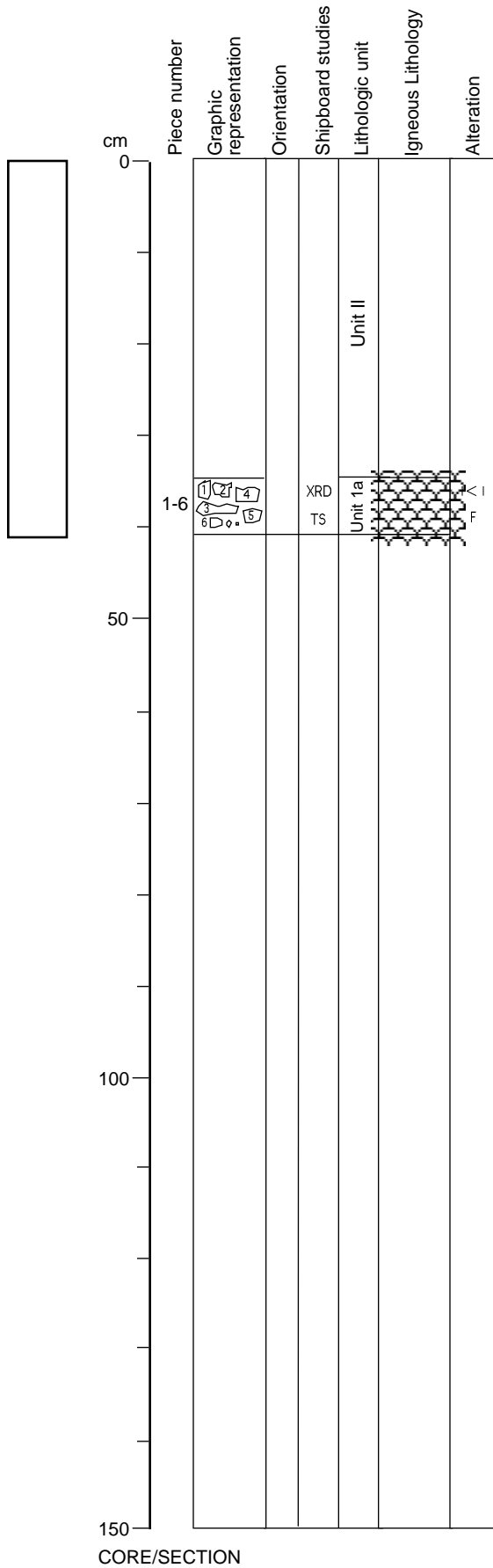
Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description				
1		1	Quaternary		● - ●	PP S	<p>CLAYEY SILT to SILTY CLAY and SILT to SANDY SILT</p> <p>Major Lithology: Greenish gray to dark greenish gray and olive gray SILTY CLAY to CLAYEY SILT with irregular patches and thin beds of silt. Generally structureless, but moderately to highly disrupted by drilling. Calcium carbonate content higher locally due to abundance of nannofossils.</p>				
2		2				● - ●		S PP	<p>Minor Lithology: Thin interbeds of dark greenish gray SILT to SANDY SILT with sharp bases, normal size grading, and gradational tops. Thin beds occur in Section 1, 77 cm, 105 cm, 142 cm, and 149 cm, Section 2, 13 cm and 136 cm, Section 6, 136 cm and 147 cm, and Section 7, 34 cm and 37 cm.</p>		
3		3								● - ●	S PP
4		4									
5		5				● - ●	IW/WR	<p>General Description: Interbeds probably represent thin-bedded, fine-grained turbidites and hemipelagic mud deposits.</p>			
6		6				● - ●	IW				
7		7				● - ●	PP WR				
8		8				● - ●	IW				
9		9				● - ●	IW				
		6		● - ●	IW						
		7		● - ●	IW						
		CC			● - ●	S PP					

SITE 1023 HOLE A CORE 22X CORED 190.4 - 194.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb.	Sample	Description
1		1	Quaternary			S	<p>CLAYEY SILT to SILTY CLAY and BASALT</p> <p>Major Lithology: Dark greenish gray CLAYEY SILT to SILTY CLAY with local bands of darker green and gray color; local disseminated pyrite. Calcium carbonate content higher locally due to abundance of nannofossils.</p> <p>Minor Lithology: BASALT. Contact in Core Catcher, 35 cm. See Hard Rock Description for additional information.</p>
		2		IW			
		3		IW			
2		CC		S			



168-1023A-22X-CC



UNIT II: Muddy lithology (see Sedimentary VCD).

UNIT 1a: PLAGIOCLASE PHYRIC BASALT

PIECES 1-6

CONTACTS: None.

PHENOCRYSTS: Sparsely to moderately plagioclase phyric.

GROUNDMASS: Cryptocrystalline

VESICLES: ≤1%, ≤0.2mm

COLOR: Medium-dark gray, 7PB 2.8/0.1 to 6P 2.6/0.1

STRUCTURE: Pillow fragments.

ALTERATION: Surfaces of pieces 2, 4 & 5 are partially coated with a blue-gray clay-like mineral. Same mineral is coating the interior of the vesicles.

VEINS/FRACTURES: Thin clay vein on surface of piece 2.

ADDITIONAL COMMENTS: Glass rims on Pieces 1, 4 and 6.