SITE 1018 HOLE A CORE 1H COR	RED 0.0 - 4.9 mbsf
GRAPE density (g/cm³) (450-500 nm) (10-6 SI) Graphic Lith.	Description
DIATOM CLAY Major Lithologi This core cons to 5Y 5/2) CLA DIATOMS to D Foraminifers, s silicoflagellates amounts to the Minor Lithology Three thin bed gray (N3), fine QUARTZ SAN and 4. General Descr This core conta	es: ists of olive gray (5Y 4/2 Y WITH SILT AND DIATOM CLAY. ponge spicules, and s contribute small sediment. /: s or laminations of dark grain FELDSPAR D occur in Sections 2

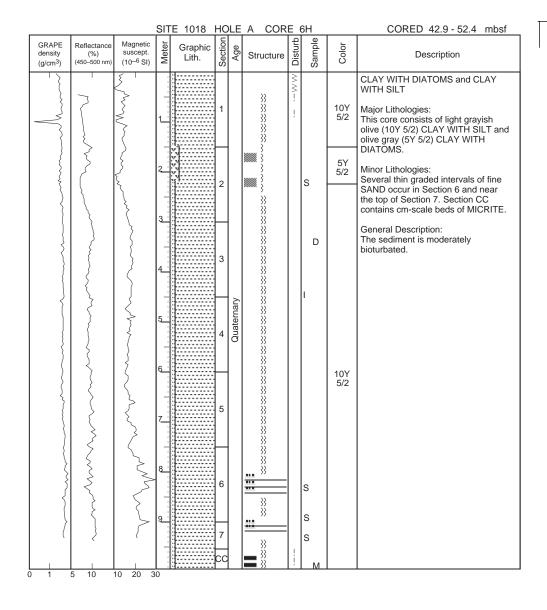


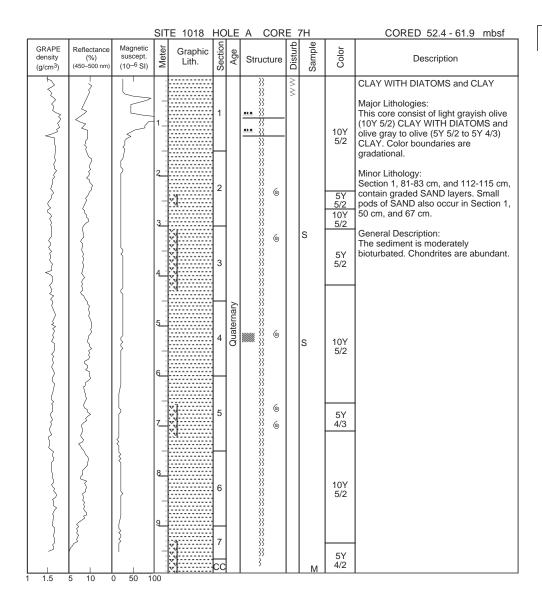
SITI	E 1018 F	HOLE	A COR	E	2H		CORED 4.9 - 14.4 mbsf
GRAPE density (%) (450–500 nm) (10–6 SI)	Graphic Lith.	Section	Structure	Disturb	Sample	Color	Description
1 1.5 8 10 0 350 700		1 2 3 4 4 5 5 6 6 7 CC	–	000000	s s _ D s	10Y 4/1	CLAY WITH DIATOMS and CLAY WITH SILT Major Lithologies: This core consists of grayish olive (10Y 4/1 to 10Y 4/2) CLAY WITH DIATOMS and CLAY WITH SILT. Very small shell fragments (mm-scale) are present and abundant foraminifers are visible on the split surface of the core in short intervals in Sections 5 and 6. General Description: The sediments are nearly homogeneous and display no distinct burrows. Note: Mud extruded from and reinserted into Section 2. Possible stratigraphic inversion.

			SIT	E 1018	HC	LE	A COR		3H		CORED 14.4 - 23.9 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450-500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
density	(%)	suscept.	$\overline{}$	Graphic			Structure	Disturb Disturb	Sample Sample	10Y 5/2 5Y 5/2 10Y 5/2 5Y 4/2 10Y 5/2 5Y 4/2 10Y 5/2 5Y 5/3 10Y 5/2 5Y 5/3	
1 1.5	5 10	0 10 2	9 -		7 CC		%		S M	10Y 5/2	

			SIT	E 1018	HO	LE	Α	COR		1H		CORED 23.9 - 33.4 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Stru	cture	Disturb	Sample	Color	Description
			2 3 		1 2 3 4 4 5 6 CC	Quaternary		6 6	1 MM	S	10Y 5/2 To 10Y 6/2 To 10Y 6/2 5Y 5/2 10Y 5/2 10Y 5/2	CLAY and CLAY WITH DIATOMS Major Lithologies: This core consists of olive gray (5Y 5/2) CLAY WITH DIATOMS and light grayish olive to pale olive (10Y 5/2 to 10Y 6/2) CLAY. Color changes are subtle and gradational. Slightly darker intervals exhibiting Chondrites trace fossils repeatedly occur with about a meter-scale cyclicity. Minor Lithology: In Section 4, 110 cm, a clay-rich interval of dark green altered volcanic glass(?) occurs. General Description: The sediment is moderately bioturbated. Chondrites are abundant.
1.5	5 10 (20 4	0									

			SIT	E 1018	НС	LE	A COR	Ε :	5H		CORED 33.4 - 42.9 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			3		2	Á			I	10Y 4/1	CLAY WITH DIATOMS and CLAY WITH SILT Major Lithologies: This core consists of olive gray (5Y 5/2) CLAY WITH DIATOMS and grayish olive (10Y 4/1) CLAY WITH SILT. Color boundaries are gradational. The silt fraction is composed mainly of quartz and feldspar. General Description: The sediment is slightly bioturbated.
			5	V V V V V V V V V V V V V V V V V V V	5	Quaternary	** ** ** ** **			5Y 5/2 10Y 4/1 5Y 5/2 10Y 4/1	
}			8	× × × × × × × × × × × × × × × × × × ×	6		**************************************		S	5Y 5/2	
0 1	5 10 1	10 20 3	10		7 CC		» » » »		S M	10Y 4/1	





			SIT	E 1018	HO	LE	A COR				CORED 61.9 - 71.4 mbsf
density ((%)	Magnetic suscept. (10-6 SI)	Meter	Graphic Lith.	Section	Age	Structure	Ω	Sample	Color	Description
1 1.5 5 1		20 4	2 3 4 5 6 7 7 8 9		1 2 2 3 3 4 4 5 5 CCC	Quatemary	*** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** **	000	S SS S	10Y 5/2 To 10Y 4/1	CLAY WITH NANNOFOSSILS Major Lithology: This core consists of grayish olive to light grayish olive (10Y 5/2 to 10Y 4/1) CLAY WITH NANNOFOSSILS. Color variation is subtle and no distinct boundaries are observed. Minor Lithology: Thin beds of QUARTZ GLAUCONITE SAND occur in Section 1, 90-94 cm, Section 3, 136-139 cm, and Section 5, 2-3 cm. General Description: The sediment is moderately bioturbated.

			SIT	E 1018	HC	LE	A COR				CORED 71.4 - 80.9 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
3	}	{	-	Š			} 6 }	≷		5Y 5/2	CLAY WITH DIATOMS and CLAY WITH NANNOFOSSILS
M	$ \ \rangle \ $	}	1_	4	1		}} }}			10Y 5/2	Major Lithologies: This core is composed of m-scale
		{	-	*\ *\ *1			3 6			5Y 5/2	alternations of olive gray (5Y 5/2) CLAY WITH DIATOMS and light grayish olive (10Y 5/2) CLAY WITH
}		}	2	4 			33 6 3			10Y 5/2	NANNOFOSSILS in the upper part and light grayish olive (10Y 5/2) CLAY WITH NANNOFOSSILS in the lower
}		}		Š.	2		\$ 6 \$ 7			5Y 4/2	part. The boundaries are gradational. Minor Lithology:
}	$ $ \rangle	{	3						S		A white (N 2) VITRIC VOCANIC ASH pocket occurs in Section 4, 55 cm.
1	$\left \begin{array}{c} \\ \end{array} \right $	}	-	Ž	3		**************************************				General Description: The core is slightly to moderately bioturbated.
{	7	{	-	×);; };;			5Y 5/3	bioturbated.
}		}	5 <u>-</u>	Ž		Quaternary) }} }}				
}		}		<u>-</u>	4	Quat	\$\$ A• \$\$				
	}	}	6	4			}} }} }}				
}	$\left \begin{array}{c} \\ \\ \end{array} \right $	}	-	-	5		}} }} }} }				
 	}	}	7				}} }} }}		S		
}		}	-); }; };			10Y 5/2	
		{	8 -	- -	6		\$\$ \$\$ \$\$				
}		}	9				}} }} }} }}				
	{	}		4	7		}} }} }} }				
1 1.5	5 10) 20 4	10 10	<u>.</u>	CC		;; ;;		М		

			SIT	E 1018		LE	A COR		10H		CORED 80.9 - 90.4 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	}	\(\frac{1}{2}\)	1		1			000 ^^		10Y 5/1	NANNOFOSSIL OOZE WITH DIATOMS and DIATOM OOZE WITH CLAY AND SILICOFLAGELLATES
		}	1		1		}	MM	S	10Y 4/1 To 10Y 5/1	Major Lithologies: This core contains a distinctly larger biogenic component than previous cores. It consists of light grayish olive (10Y 5/1) to gray (5Y 5/1)
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	}	2		2		— _{**}			10Y 5/1	NANNOFOSSIL OOZE WITH DIATOMS and grayish olive (10Y 4/1) to dark gray (5Y 4/1) DIATOM OOZE WITH CLAY AND SILICOFLAGELLATES. Radiolarians,
	}	}	3							5Y 5/1	sponge spicules, quartz-feldspar silt, foraminifers, and siliceous holothurian
***************************************	*	}	4		3		» ~			5GY 4/1	ossicles contribute small quantities to the sediment. Minor Lithology: Two thin laminations of very fine- to fine-grained SAND are present in
{			-			ary					Sections 2 and 3.
		}	5		4	Quaternary	>			5Y 5/1	General Description: This core shows little visible bioturbation. It was moderately disturbed by coring and extraction.
{		}	-	141	5		}		S	5Y 4/1	
{]	}	7		J		,			5Y	
}	{	(-				>			5/1	
			8		6		****			10Y 4/1	
	$ \ \rangle \ $	}			7		}} }}				
			10		CC		//	 	м	5Y 4/1	
1 1.5	5 10 C) 20 4	10	- 1 v v v v v			1			4/1	<u> </u>

			SIT	E 1018	HC	LE	A COR				CORED 90.4 - 99.1 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1 1.5			2		1 2 3 4 5 6 CC	Quaternary		Μ	s s D D S	5Y 4/1 10Y 4/1 5Y 4/1 10Y 4/1 10Y 4/1 10Y 4/1 10Y 5/1 5Y 4/1 10Y 5/1 5Y 4/1 10Y 5/1 10Y 4/1	DIATOM CLAY MIXED SEDIMENT WITH SILT AND NANNOFOSSILS Major Lithology: This core consists of grayish olive (10Y 4/1) to gray (5Y 5/1 to 10Y 5/1) DIATOM CLAY MIXED SEDIMENT WITH SILT AND NANNOFOSSILS. Foraminifers and radiolarians are present in small amounts. Color and compositional changes are subtle. General Description: Abundant small aggregates of sponge spicules (Sagarites?) are disseminated through the entire core. The core is chiefly homogeneous, but locally shows rare to common distinct burows, including Chondrites.

			SIT	E 1018			A COR				CORED 99.1 - 108.7 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	╻	Sample	Color	Description
	}	<u>}</u>	1				>	o		10Y 4/1	CLAY WITH CARBONATE, SILT OR DIATOMS
}		}	_ 		1		}	wwww		10Y 4/1 To	Major Lithology: This core consists of olive gray (5Y 4/2) to light grayish olive (10Y 5/1)
3		\	-		L		3	ļ		5Y 4/1	CLAY WITH CARBONATE, SILT OR DIATOMS. Foraminifers and coccoliths
}		}	2_				— ᢤ		S	5GY 4/1	together make up about 10% of the sediments. Color variation is very
}		}	-		2		ĺ	li			subtle.
{		{	-								General Description: Small white aggregates of sponge
}		}	3			ary					spicules (Sagarites?) are distributed throughout the core. Distinct burrows are rare in the otherwise homogeneous
}		}	-		3	Quaternary				5Y 4/2	sediment.
{		{	4		٥	Qui			s		
\			-						١		
{	}	}	5_								
\}		}	-		4		· · · · · · · · · · · · · · · · · · ·				
\	{	}					3 6	li		10Y	
{		}	6				>		s	4/1	
\	}	}	-		5		3				
/ 	5 10) 	7 10		CC			}	М	10Y 5/1	

			SIT	E 1018		LE	A COR				CORED 108.7 - 118.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			2		3	Quaternary	~~	WWWWWWWW	SDS	5GY 5/1	CLAY WITH DIATOMS Major Lithology: This core consists of greenish gray (5GY 5/1) to dark gray (5Y 4/1) CLAY WITH DIATOMS. Silt, foraminifers, and organic debris make up small fractions of the sediment. Minor Lithology: A thin (3 mm) lamination of dark gray (N4) FELDSPAR QUARTZ SAND is present at Section 4, 50 cm. It is rich in amphiboles, glauconite, and opaque minerals. General Description: White sponge spicule aggregates (Sagarites?) are present throughout the core. The core is mostly homogeneous, but is moderately bioturbated in places. Chondrites are present in Sections 3 and 5.
			7		5		<i>\$</i> \$		S D	5Y 4/1	
		}	8		6					10Y 4/1	
1 1.5	5 10) 20 4	9 <u> </u>	y y	СС			>	М	5Y 4/1	

			SIT	E 1018	HO	LE	A COR		14X		CORED 118.3 - 128.0 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	}	}		VV			} } } % 6	***		10Y 4/1	CLAY WITH SILT, CLAYEY DIATOM OOZE WITH SILT and DIATOM NANNOFOSSIL CLAY MIXED
}		}	1_	**************************************	1		<pre>% 6 % %</pre>		S	5Y 4/1	SEDIMENT Major Lithologies: This core consists of alternations
W			3		2		\$			5Y 4/2 To 10Y 4/1	between dark greenish gray (5GY 4/1) CLAY WITH SILT, dark gray (5Y 4/1) to grayish olive (10Y 4/1) CLAYEY DIATOM OOZE WITH SILT, and gray (5Y 5/1) to loght grayish olive (10Y 5/1) DIATOM NANNOFOSSIL CLAY MIXED SEDIMENT. Chaetoceros resting spores are a significant component of the diatom fraction.
{		}	4_		3		6		s	5Y 5/1	General Description: Small, white aggregates of sponge spicules (Sagarites?) are distributed
			5		4	Quaternary	» » 6 »		S	5Y 4/1	through the lower 2/3's of the core. The core is slightly to moderately bioturbated, with common occurances of Chondrites trace fossils.
}	$ \rangle $		6_				,			10Y 4/1	
\ \{\}		\	-				%			5Y 4/1 10Y	
{		}	7_	744 744	5		3			5/1	
			8		6					5Y 4/1	
			9	//// ////						10Y 4/1	
1 1.5	5 10 0) 20 4	9_ 10		7 CC			; ≥	S M	5GY 4/1	

			SIT	E 1018	HO	LE	A COR				CORED 128.0 - 137.7 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
3	}	}		V.V.	1			ww		10Y 4/1	DIATOM CLAY, CLAYEY DIATOM OOZE WITH NANNOFOSSILS and NANNOFOSSIL OOZE WITH CLAY
			2	V V V V V V V V V V V V V V V V V V V	2		>			5Y 4/1	Major Lithologies: This core consists of irregular decimeter- to meter-scale alternations between grayish olive (10Y 4/1) to greenish gray (5GY 5/1) DIATOM CLAY, olive gray (5Y 4/2) CLAYEY DIATOM OOZE WITH
}		}	3_		3		, , , , ,			10Y 5/1	NANNOFOSSILS, and light grayish olive (10Y 5/1) NANNOFOSSIL OOZE WITH CLAY. Siliciclastic silt and foraminifers are also present in quantities <10%.
		/	-							5Y 4/2	General Description:
}		}	4_				% 6 % 6 % 6			10Y 5/1	This core is moderately to heavily disturbed by coring and extraction.
}		}			4	Σ	}} 6	× ×		10Y	The sediments are homogeneous to moderately burrowed and include
}		\}	5_			Quaternary	}} }} §			5/1 To 5Y 4/2	Chondrites trace fossils. Sagarites(?) sponges are disseminated throughout the core.
			6 -		5)			S	5Y 4/2	
		}			6		} } }}		S	10Y 5/1	
	\$,	8_	V.V.	H		** ** ** ** ** **			5GY 5/1	
			-	V.X			3		S		
	$ $		9_	V.V.	7		» » 6 6			10Y 4/1	
1 1.5	5 10	<u> </u>	.0		CC		6		М	5Y 4/2	

GRAPE density (g/cm³) Reflectance (%) (450–500 nm) (10 ⁻⁶ SI) Magnetic suscept. (10 ⁻⁶ SI) Magnetic (%) (10 ⁻⁶ SI) Magnetic (10 ⁻⁶		SITE 1018 HOLE A CORE 16X CORED 137.7 - 147.3 mbsf														
2 Eng of the second sector of the sector of the second sector of the second sector of the second sector of the second sector of the sector of the second sector of the sector of	density	(%)	suscept.	Meter		Section	Age	Structure	Disturb	Sample	Color	Description				
0 1 5 7.5 0 20 40				2		1 2	Quaternary	>>>>> >>>>>	00000000 MMMM		10Y 5/1 10Y 4/1	Major Lithology: This core consists of grayish olive (10Y 4/1) to olive gray (5Y 5/2) CLAY WITH SILT AND DIATOMS. General Description: The sediments are homogenized to slightly bioturbated. Note this core was extremely				

			SIT	E 1018	HC	LE	A COR	E	17X		CORED 147.3 - 156.9 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
Many		{	in him		1		>> >> >> >>		S	5Y 4/3	CLAY DIATOM MIXED SEDIMENT and CLAYEY NANNOFOSSIL OOZE
		}	1		'		**************************************			5Y 5/2	Major Lithologies: This core consists of olive to olive gray (5Y 4/3 to 5Y 5/2) CLAY DIATOM MIXED SEDIMENT interbedded with pale olive to grayish olive (10Y 6/2 to
		}	2		2		} }} }}		0	10Y 6/2	10Y 4/2) CLAYEY NANNOFOSSIL OOZE. Color and composition changes are gradational.
			3_				» » » » »		S	5Y 5/2 10Y	General Description: The sediment is moderately bioturbated. Chondrites is abundant in
		}			3					6/2	intervals containing CLAY DIATOM MIXED SEDIMENT.
3			4			ary	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			5Y	
			5		4	Quaternary	3			5/2 To 10Y 5/2	
3			6				*** 6 *** *** ***				
	$\left \cdot \right\rangle \cdot \left \cdot \right\rangle$	}			5		***				
3		}	7							5Y 4/2	
	$\left \begin{array}{c} \\ \\ \end{array} \right $	}	8	1,2,2			>>> >>> >>>			10Y 5/2	
1		{		*****	6		** ** **			5Y 4/2	
	{	{	9		7		» » » » » » » » »			To 10Y 4/2	
1.5 1.6	5 10 0) 20 4	10 10	·····[yyyyy	CC			<u>Li</u>	М		

			SIT	E 1018	НО	LE	A COR		18X		CORED 156.9 - 166.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1	7	2		300000 300000 300000 300000 300000			5Y 5/2 To 10Y 5/2	CLAY WITH DIATOMS and CLAYEY NANNOFOSSIL OOZE WITH DIATOMS Major Lithologies: This core consists of gradationally interbedded olive to olive gray (5Y 5/3 to 5Y 4/2) CLAY WITH DIATOMS and pale olive to light olive gray (10Y 6/2 to
		-My	3_	× × × × × × × × × × × × × × × × × × ×	3				S	5Y 5/3	5Y 6/2) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS. Minor Lithology: Section CC, 18-20 cm, contains a dark gray (N4) FINE SAND.
			4 		4					10Y 5/2	General Description: The sediment is moderately biotrubated in the lower portion of the core.
			5		5	Quaternary			S	5Y 6/2	
		Mon	7	**************************************	6		6 % 6 % %		S	5Y 5/2 10Y 5/2	
			8	× 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			5Y 5/2 10Y 5/2 5Y 5/2	
1.4 1.6	5 10	10 15 2	9 -	V L L	8 CC		** ** ** **		M	5/2 10Y 5/2 5Y 4/2	

			SITE 101			A COF				CORED 166.5 - 176.1 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meta Graph Lith.	nic	Section	Structure	Disturb	Sample	Color	Description
1 1.5	5 10		3 3 4 4 7 8 8 9		1 2 3 Availability 5 6 7 CC	~ ************************************		S C S C	5Y 4/2 10Y 5/2 5Y 4/2 10Y 5/2 5Y 4/3 5Y 5/2 5Y 4/3	CLAY WITH DIATOMS, DIATOM NANNOFOSSIL OOZE WITH CLAY and CLAY DIATOM MIXED SEDIMENT Major Lithologies: This core consists of interbedded lithologies containing variable amounts of clay, diatoms, and nannofossils. Clay-rich intervals (CLAY WITH DIATOMS and CLAY DIATOM MIXED SEDIMENT) are generally light grayish olive to light gray (10Y 5/2 to 5Y 5/2). DIATOM NANNOFOSSIL OOZE WITH CLAY is olive (5Y 5/3). Sediment composition is variable and color changes do not correlate well with lithology in this core. General Description: The sediment is moderately bioturbated. Chondrites are abundant. Note: The top of Section 1 was disturbed and its stratigraphy is uncertain.

			SIT	E 1018	HC	LE	A COR		20X		CORED 176.1 - 185.7 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
density	(%)	suscept.	Meter		1 2 3 4 5 6	Quaternary Age	Structure (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Oisturb Disturb	Sample Sample	10Y 5/2 5Y 4/3 10Y 5/2 5Y 5/3 10Y 5/2 5Y 5/3 10Y 5/2 5Y 5/3 10Y 5/2	CLAY WITH DIATOMS AND NANNOFOSSILS and DIATOM CLAY Major Lithologies: This core consists of interbedded light grayish olive (10Y 5/2) CLAY WITH DIATOMS AND NANNOFOSSILS and olive (5Y 5/3) DIATOM CLAY. General Description: The sediment is generally slightly to moderately bioturbated. There are abundant Chondrites. Note: The top of Section 1 was disturbed and its stratigraphy is uncertain.
1 1.5	5 10	0 10 2	0)	**************************************	7 CC		** ** ** ** **		М	10Y 4/2	

			SIT	TE 1018		LE	A COR				CORED 185.7 - 195.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1_		1		» » »	//////////	S	5Y 4/2 10Y 5/1	CLAY WITH SILT, CLAY WITH DIATOMS AND SILT and CLAY NANNOFOSSIL MIXED SEDIMENT Major Lithologies: This core consists of alternations
			2		2		** ** ** ** **	\\\\\\\\\\		5Y 5/2	between pale olive to light grayish olive (10Y 6/2 to 10Y 5/1) CLAY WITH SILT, olive to olive gray (5Y 4/3 to 5Y 5/2), CLAY WITH DIATOMS AND SILT, and light olive gray (5Y 6/2) CLAY NANNOFOSSIL MIXED
			3		3		***************************************	<u> </u>	SD	5Y 4/2	SEDIMENT. Color and compositional changes are gradual. Minor Lithologies: In general, the sediments are slightly bioturbated, but lighter intervals are moderately bioturbated.
	}		5		4	Quaternary	***************************************	<u> </u>		5Y 5/2	
			6				>			5Y 4/3	
			7		5		>>> >>> >>>			5Y 6/2	
		}					** ** **		SD	10Y 6/2	
}		}	8		6		% % % % % % % % % % % % % % % % % % %			5Y 6/2	
5	\	{	9		7		**************************************			5Y 5/2	
1.4 1.6	5 10 () 10 2	20) H	СС		} 6		M	5Y 4/2	

			SIT	E 1018		LE	A COR		22X		CORED 195.3 - 204.9 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1		»»»	FFFFFFFF		10Y 5/2	DIATOM CLAY and CLAYEY DIATOM OOZE Major Lithologies: This core consists of grayish olive to light grayish olive (10Y 4/2 to 10Y 5/2) DIATOM CLAY and olive gray to olive (5Y 4/2 to 5Y 4/3) CLAYEY DIATOM
	\ \{ \}		2		2		99 (\\\\\\\\\\\\·		10Y 4/2	OOZE. Section 2, 50-100 cm, contains abundant glauconite grains. General Description: The sediment is slightly bioturbated but extensive fracturing masks most surface features.
	$ \ \rangle $	}]	// /// ////////			} } 6	$++ \setminus$		10Y 5/2	Surface readures.
}			4_		3	ary	, •	\\\\	I	5Y 4/3	
			5		4	Quaternary	} 6	+	S	10Y 5/2	
			6 7	**************************************	5		Ü		s D	5Y 4/2	
W.W.W.W.W.	}		8		6		>	HHHHHHHH-	D	10Y 4/2	
	5 10	0 10 2	9		7 CC				М	5Y 4/2	

			SI	ΓΕ 1018		LE	A COR	_	23X		CORED 204.9 - 214.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	} '	}	1_	Š	1			\dashv		5Y 4/2	CLAY WITH DIATOMS Major Lithology: This core consists of olive gray to olive (5Y 4/2 to 5Y 4/3) CLAY WITH
}		}	-	<u> </u>			}} }} }}	111-		5Y 4/3	DIATOMS. Color changes are subtle and gradual.
}	{	<i></i>	2	Š	2		}} }} }}	1111		5Y 4/2	General Description: The sediment is moderately bioturbated.
}			3_	×			***************************************	111111		5Y 4/3	
Ş	}	}		Š.	3		;;; ;;; ;;;	111			
		{	4_			late Pliocene				5Y 4/2	
}	}	}	5	X X X	4	late Pli	** ** ** **			5Y 5/3	
			6 - - 7		5	•	*****************		S D	5Y 4/3	
		}	8_		6		** ** ** **	-		10Y 5/2	
{		{	9_	X X X	7				S	5Y 4/2	
4 1.6	5 10	0 10 2	<u> </u>	ľvŀ····	CC	_			M		

	SIT	E 1018	HO	LΕ	A COR	E 2	24X		CORED 214.5 - 224.2 mbsf
GRAPE density (%) Magnetic suscept. (9/cm ³) (450–500 nm) (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	1		1					10Y 5/2	CLAY WITH SILT Major Lithology: This core consists of light grayish olive to olive (10Y 5/2 to 5Y 4/3) CLAY WITH SILT. Color changes are gradational. The silt fraction is
	2		2		}	-HHH \\\\\\\\		5Y 4/3	composed mainly of quartz and feldspar. General Description: The sediments are slightly to moderately bioturbated but moderate fracturing masks most structural features.
	4		3	Pliocene	** ** ** ** ** **			10Y 5/2	Note: Section 1, 0-50 cm, was disturbed during drilling operations and has uncertain stratigraphy.
	5		4	late Pliod	} } }}			5Y 4/3	
	6		5		» }}			10Y 5/2	
	8 -		6				S	5Y 4/3	
	9		7				S	10Y 5/2	
1 1.5 5 10 10 20	30	H	μÜ			<u> </u>	М		

			SIT	E 1018		LE	A COR		25X		CORED 224.2 - 233.8 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
The state of the s			3 3 5 7 7 7 9		1 2 3 4 5 6 7 CC	late Pliocene	© © **********************************	<u> </u>	S [I S [5Y 5/2	CLAYEY DIATOM MIXED SEDIMENT and CLAY WITH SILT Major Lithologies: This core consists of olive to olive gray (5Y 4/3 to 5Y 5/2) CLAYEY DIATOM MIXED SEDIMENT and light grayish olive (10Y 5/2) CLAY WITH SILT. Color changes are gradual. Minor Lithology: Section 6, 64-65 cm, contains a thin bed of FELDSPAR QUARTZ SAND WITH GLAUCONITE. General Description: The sediment is moderately bioturbated but fracturing makes observation of structural features difficult.
1.4 1.6	5 10 () 20 4	10								

			SIT	E 1018		LE,	A COR		26X		CORED 233.8 - 243.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			2 3 4 5		3 4	late Pliocene		$\bigvee\bigvee$	s D s	10Y 4/1	DIATOM CLAY MIXED SEDIMENT WITH SILT OR NANNOFOSSILS Major Lithology: This core consists of grayish olive (10Y 4/2) to dark gray (5Y 4/1) DIATOM CLAY MIXED SEDIMENT WITH SILT OR NANNOFOSSILS. Color and compositional changes are extremely subtle. The silt fraction is composed of quartz, feldspar, mica, pyrite, and other opaque minerals. General Description: This core shows no primary sedimentary structures and is moderately to highly fractured and biscuited throughout. Small, white sponge spicule aggregates are distributed throughout the core. Note: Section 4 fell out of liner and was reinserted.
1 1.5	5 7.5	0 10 2	7 8 9		5 6 7 CC			\bigvee	S	10Y 4/2 5Y 4/1	

SIT	E 1018	HC	LE	A COR	Е			CORED 243.5 - 253.0 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1			0000		10Y 4/2	DIATOM CLAY WITH SILT Major Lithology: This core consists of grayish olive (10Y 4/2) to dark gray (5Y 4/1) lumpy soup with the composition of DIATOM CLAY WITH SILT. No sedimentary features
	Void							TVITTI OILT: NO COGIIIIOINGI Y IOGIGIOC
2 -					00		10Y 4/2	are preserved. General Description:
3	Void	2						Almost the entire core was disturbed by coring and turned to soup. Most material was lost and the remainder was curated with large voids in each section. Only Sections 7 and CC are in usable condition.
4		3			00000		10Y 4/2	usable condition.
-	Void							
5		4	late Pliocene		00000		10Y 4/2	
6	Void							
_	2				000		10Y 4/2	
7	Void	5						
8 -					0			
9		7			0000000	S	5Y 4/1	
	XX	СС			>	М		

			SIT	E 1018	HO	LE	A COR		28X		CORED 253.0 - 262.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1					5Y 4/1	CLAY DIATOM MIXED SEDIMENT WITH SILT and CLAYEY DIATOM OOZE WITH NANNOFOSSILS Major Lithologies: This core consists of olive gray (5Y 4/2) to grayish olive (10Y 4/1) CLAY
W			2		2				S	5Y 4/2	DIATOM MIXED SEDIMENT WITH SILT to light greenish gray (5GY 5/2) to gray (5Y 5/1) CLAYEY DIATOM OOZE WITH NANNOFOSSILS. Foraminifers and nannofossils comprise 6-15% of the sediments.
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		}	3		3			\dashv		5Y 5/1	Minor Lithology: A 2-cm thick, very fine-grained, graded, very light gray (N8) VITRIC ASH is present near the top of Section 4.
		{	4			ene	••• —A	$\neg \neg \neg \neg \neg$	S I	5Y 5/2	General Description: This core is moderately fractured by pervasive biscuiting. Bioturbation is
Jan Mary			5		4	late Pliocene	<u>•••</u> −A		s	10Y 4/1	distinct only in Section 7.
1.4 1.6	5 7.5	0 10 2	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		5 6 7 CC		*****	$ \land \land$	М	5GY 5/2	

			SIT	E 1018	НО	LE	A COR		29X		CORED 262.5 - 272.2 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
density	(%)	suscept.	% Meter	Graphic				FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	Sample Sample S	5Y 4/1 10Y 4/1 5Y 5/1	
1.4 1.6	6 8	10 20 3	8		6 7 CC			$\wedge \wedge $	S M	10Y 4/1	

			SIT	E 1018		LE	A COR		30X		CORED 272.2 - 281.8 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1			<u> </u>	Ø	5Y 3/2 To 5Y 4/1	CLAY SILT DIATOM MIXED SEDIMENT Major Lithology: This core consists of dark olive gray (5Y 3/2) to light grayish olive (10Y 5/1) CLAY SILT DIATOM MIXED
			2		2		_	/// ////////	S	10Y 5/1	SEDIMENT. Subtle color changes result from mostly minor variation in composition. Minor Lithology: A lamination of greenish gray (5BG 5/1) CLAY is present near the base of Section 2. It is probably an alteration
WWW Www.			4	१५१६११५५१६१४५१६	3	Pliocene		VVVVVVVV		5Y	product of a VOLCANIC ASH deposit. General Description: This core is moderately to severely disturbed by pervasive biscuiting. Almost no primary sedimentary structures are detectable.
			5	<u> </u>	4	late Plior		///////////////////////////////////////		4/1	
			7	राज्यसम्बद्धाः । इति	5			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		10Y 4/1	
			8	<u>। अवस्य सम्बद्धाः । ।</u>	7			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		5Y	
.4 1.6	5 10 1	0 15 2	_ 	S.	СС			>	М	4/1	

			SIT	E 1018	НΟ	LE	A C	OR		31X		CORED 281.8 - 291.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structi	ure	Disturb	Sample	Color	Description
			1		1		***	66666	\vdash		10Y 4/1	DIATOM CLAY MIXED SEDIMENT WITH SILT Major Lithology: This core consists of grayish olive (10Y 4/1) to gray (5Y 4/1) DIATOM CLAY MIXED SEDIMENT WITH SILT.
			2		2		***	6		S	5Y 4/1	General Description: Color changes are extremely gradual, necessitating somewhat arbitrarily placement of boundaries in the Color column. This core is pervasively biscuited with 30-50% of the surface of the split core consisting of inter-biscuit pulverized material. Trace fossils are
			4		3	late Pliocene	} } } }	6	HHHHHHHHH	Sı	10Y 4/1	well preserved and abundant, however, within the solid biscuits. Small, mm-scale, tubular sponges are common within the core.
			6		4	la	*** *** ***	6			5Y 4/1	
}		}	7		5		3		\perp		4/1	
1 1.5	6 8	10 20 3	8 - 9	***************************************	6 7 CC		3		$\langle VVVV \rangle$	S	10Y 4/1	

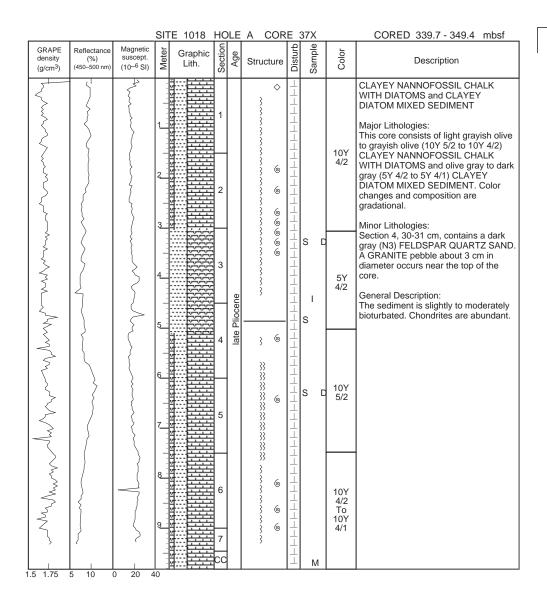
SITE 1018 HOLE A CORE 32X C	ORED 291.5 - 301.1 mbsf
GRAPE density (g/cm³) (450–500 nm) (10–6 SI) Graphic Lith.	Description
	Y WITH DIATOMS AND SILT and OMITE WITH CLAY AND SILT r Lithologies:
This (10Y WITH DIAT Color excee Color place quart other spicus small	core consists of grayish olive 4/1) to dark gray (5Y 4/1) CLAY 1 DIATOMS AND SILT to 'OMITE WITH CLAY AND SILT. r and composition changes are edingly gradual; boundaries in r column are only approximately ed. The silt fraction is composed of tz, feldspar, mica, pyrite, and r opaque minerals. Sponge iles and organic matter contribute I amounts to the sediment. r Lithology: nination of greenish gray (5BG CLAY (altered ash?) is present the center of Section 1.
General Theorems of the state o	eral Description: core is severely disturbed and lited by XCB coring. No distinct rbation is evident. Small arites?) sponges are scattered ligh the core. Three intact sponge is are preserved at Section 1, 130
8 6 10Y 4/2 10Y 4/2	
1.5 1.75 6 8 10 15 20	

			SIT	E 1018		LE	A COF				CORED 301.1 - 310.7 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	______	{		**************************************	1					10Y 4/1	DIATOM CLAY MIXED SEDIMENT WITH SILT and DIATOM CLAY MIXED SEDIMENT WITH NANNOFOSSILS Major Lithologies: This core consists of dark gray (5Y 4/1)
			2		2		- ** •••	H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-H-		10Y 5/1	to light grayish olive (10Y 5/2) DIATOM CLAY MIXED SEDIMENT WITH SILT and DIATOM CLAY MIXED SEDIMENT WITH NANNOFOSSILS. Sponge spicules, radiolarians, and organic matter are also present in small quantities.
		}	3		3		~ ~ 6	<u> </u>		5Y 5/2	Minor Lithology: A thin bed of very fine, dark gray (N4) SAND is present at Section 2, 84 cm. General Description: Small tubular sponges (Sagarites?) are
Sam Sam		}	5		4	late Pliocene	~	HHHHH \\\\\	S	10Y 5/2	distributed throughout the core. A group of well-preserved sponges occurs at the base of Section 1. The core is highly disturbed by XCB coring and pervasively biscuited.
W			7		5 6		<pre>3 6 3 6 3 6</pre>	<u> </u>	S	10Y 4/1	
1.5 1.75	5 10 () 25 5	50	À	СС			5	M	5Y 4/1	

			SIT	E 1018		<u>E, A</u>	COR				CORED 310.7 - 320.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	St	ructure	Disturb	Sample	Color	Description
			 		1			$-\vdash\vdash\vdash\vdash\vdash$		5Y 4/1	DIATOM CLAY MIXED SEDIMENT Major Lithology: This core consists of grayish olive (10Y 4/1) to dark gray (5Y 4/1) DIATOM CLAY MIXED SEDIMENT. Color transitions are exceedingly gradual.
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3		3		} } } } }	$\forall \exists \exists$	S	10Y 4/1	Minor Lithology: A lamination of bluish green CLAY occurs at Section 6, 70 cm.  General Description: The core is moderately to heavily disturbed by biscuiting. The sediment is homogeneous to moderately bioturbated, with rare Chondrites trace fossils. Small tubular sponges are common in the upper half of the core.
			5		4		) } } 6	$\wedge$	I S	5Y 4/1	
1 1.5	5 10	10 20 3	6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		5 6	_	} } \$ }		S	10Y 4/1	

			SIT	E 1018		LE	A COI				CORED 320.3 - 330.0 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1 2		6 6 6	111111111111111111111111111111111111111		5Y 4/2	CLAYEY DIATOMITE WITH SILT  Major Lithology: This core consists of CLAYEY DIATOMITE WITH SILT. The olive gray (5Y 4/2) intervals contain about 60% diatoms and the grayish olive (10Y 4/2) interval about 45% diatoms. Color changes are subtle and gradational.  General Description:
			3 6 5		3 4 5	late Pliocene	>> 6 >> 6	444444444444444444444444444444444444444	S	10Y 4/2	The sediment is slightly bioturbated in short intervals, mainly with Chondrites trace fossils. No discernable bioturbation is present in other parts, though extensive fracturing and biscuiting may have masked structural features.
1.5 1.75	66 8	10 20 :	8		6 7 CC		}		S	5Y 4/2 10Y 4/2	

			SIT	E 1018	HC	LE	A COR		36X		CORED 330.0 - 339.7 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2		1 2		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\wedge$		10Y 4/2	CLAY WITH DIATOMS AND NANNOFOSSILS and CLAYEY DIATOMITE WITH SILT  Major Lithologies: This core consists of grayish olive (10Y 4/2) CLAY WITH DIATOMS AND NANNOFOSSILS and dark gray (5Y 4/1) CLAYEY DIATOMITE WITH SILT. Color changes are gradational. Nannofossil content varies between 0%-10%.
			3		3	ene	»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»	- ////// HHHH		5Y 4/1	General Description: The sediment is slightly bioturbated, but fracturing and biscuiting may mask some of the sedimentary structures.
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			5		4	late Pliocene	3	/////	S	10Y 4/2	
			7		5		» « « «	71/1/1/1/1/1/1/	S	5Y 4/1	
1 1.5	6 8	0 20 3	9 -		6 7 CC		***************************************	HHH	М	10Y 4/2	



			SIT	E 1018	_	LE	A COR		38X		CORED 349.4 - 359.0 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
7.w~~~~			1	<u> </u>	1			HHHHHHHH		10Y 4/1	NANNOFOSSIL CLAY MIXED SEDIMENT WITH DIATOMS and DIATOM CLAY WITH SILT Major Lithologies: This core consists of dark olive gray to olive gray (5Y 3/2 to 5Y 4/2) NANNOFOSSIL CLAY MIXED
			2		2		3333	HHHHHHHH	S		SEDIMENT WITH DIATOMS and grayish olive (10Y 4/1 to 10Y 4/2) DIATOM CLAY WITH SILT. The silt component is mainly composed of quartz, feldspar, and amphibole. Color changes are gradational.
www.ww			4		3	le	>	HHHHHHHH		5Y 3/2 To 5Y 4/2	General Description: The sediment is slightly bioturbated though extensive fracturing and biscuiting makes recognition of sedimentary structures difficult.
		\	5		4	late Pliocene	} }} }	HHHHHHH			
		}	6								
	\		7		5		}			5Y 3/2	
Mrymmy			8_	3333333333	6		} } }			10Y	
	}	{	9_	333333333	7 CC				S	4/2	
1.6 1.8	5 7.5 1	10 20 3	0	:)~v 1				12	M		

			SIT	E 1018	НС	LE	A COR	Ε :	39X		CORED 359.0 - 368.7 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			3		2	ď)			S D	5Y 4/1	SILTY CLAY and DIATOM CLAY WITH NANNOFFOSSILS Major Lithologies: This upper portion of the core consists of dark gray (57 4/1) SILTY CLAY grading to grayish olive (10Y 4/2) DIATOM CLAY WITH NANNOFOSSILS in the lower portion. General Description: The sediment is slightly bioturbated in the upper part of the core and moderately bioturbated in the lower half.
			5 - 6		5	late Pliocene	\$			10Y 4/2	
1 1.5	5 10 1	0 15 2	8 - 8 - 9 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		6 7 CC		© © % % % % % % % % % % % % % % % % % %		S		

			SIT	E 1018		LE	A COR				CORED 368.7 - 378.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
					1		******	\vdash		5Y 4/2	NANNOFOSSIL CHALK WITH DIATOMS AND CLAY and NANNOFOSSIL CLAY WITH DIATOMS Major Lithologies: This core consists of olive to olive gray
\ \ \ \		}	2		2		**************************************	1111111	S	5Y 4/3	(5Y 4/3 to 5Y 4/2) NANNOFOSSIL CHALK WITH DIATOMS AND CLAY and grayish olive (10Y 4/1) NANNOFOSSIL CLAY WITH DIATOMS. Color changes are subtle and boundaries are gradational.
			3 4 5		3	late Pliocene	**********	HHHHHHHHHHHHHHH	I	5Y 5/2	Minor Lithologies: A thin layer of QUARTZ SAND occurs in Section 5, 80 cm. In Section 6, 120-124 cm, a VITRIC ASH WITH PYRITE is found. General Description: The sediment is moderately bioturbated but extensive fracturing and biscuiting makes distinction of sedimentary structures difficult.
		}	7		5		***************************************	1111	S	5Y 4/3	
1.5 2	5 10 -	50 0 5	8		6 7 CC		-A	HHHHHHHH	S S	10Y 4/1	

			SIT	E 1018	НО	LE	A COR		41X		CORED 378.3 - 387.9 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	(450-500 nm)	(10-6 SI)	W 5 1 8 9 1 9 1 1 8 9 1 1 8 9 1 1 1 1 1 1 1		3 3 4 4 5 5 6 6 7 7 CCC	late Pliocene A	-	$\wedge \wedge $	San San	10Y 4/1 To 5Y 4/2 10Y 5/1 5Y 4/2 10Y 5/2 10Y 4/1	NANNOFOSSIL CLAY WITH SILT and CLAYEY NANNOFOSSIL CHALK Major Lithologies: This core consists of subtle variation between olive gray (5Y 4/2) to light grayish olive (10Y 5/2) NANNOFOSSIL CLAY WITH SILT and grayish olive (10Y 4/1) CLAYEY NANNOFOSSIL CHALK. Foraminifers, diatoms, and radiolarians are present in small amounts. Minor Lithology: A thin bed of GLAUCONITE SAND occurs at Section 1, 140-145 cm. Several intervals within the hemipelagic sediments are also enriched in glauconite, including: Section 1, 15-110 cm; Section 2, 0-100 cm; Section 3, 70-130 cm; and Section 6, 70-100 cm. General Description: The core is highly disturbed by pervasive biscuiting, but displays moderate bioturbation within the coherent biscuits.
1 1.5	5 10 (0 25 5	0								

			SIT	E 1018 F	HOLE	A C			12X		CORED 387.9 - 397.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Structu	ure	Disturb	Sample	Color	Description
					1			VVVVV XXX	S	10Y 4/1	NANNOFOSSIL CHALK WITH CLAY and CLAYEY NANNOFOSSIL CHALK WITH DIATOMS Major Lithologies: This core consists of subtle compositional variation from grayish olive (10Y 4/1) to olive gray (5Y 4/2)
Monor			2		2		@	^^^^^		5Y 4/1	to CLAYEY NANNOFOSSIL CHALK WITH CLAY to CLAYEY NANNOFOSSIL CHALK WITH DIATOMS. Minor Lithology: A thin lamination of dark
			3		S	} } }	6	///////////////////////////////////////	S	10Y 4/1	GLAUCONITE SAND is present at the top of Section 2. Small white sponges and their molds are present throughout the core. General Description: The core is disturbed into large biscuits with abundant crushed material in between. Chondrites and Planolites(?)
			5		4 late Pl			$\langle \wedge \wedge \wedge \wedge \wedge \wedge \wedge \wedge \rangle$		5Y 4/2	are present in this core.
W W			7		5	3	6	$\wedge \wedge \wedge \wedge \wedge \wedge \wedge \wedge$		10Y 4/1	
1.5 1.75	5 7.5 1	0 20 3	9		6 7	3	6	^^^^^^^	М	5Y 4/1	

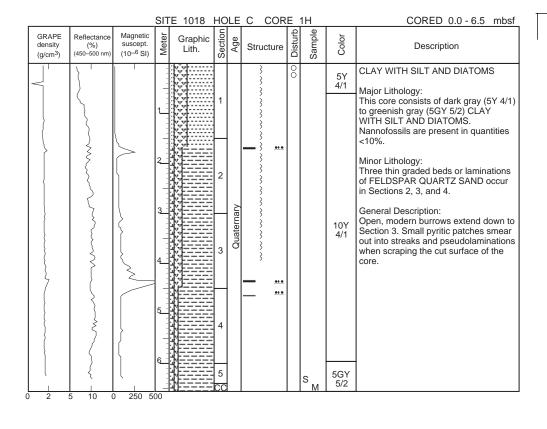
			SIT	E 1018	HC	LE	A COF		43X		CORED 397.5 - 407.0 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
ts/h/^/				73737373737	1		>	× >>>> >	S	5Y 4/1	CLAY WITH SILT AND DIATOMS and CLAY NANNOFOSSIL MIXED SEDIMENT Major Lithologies: This core consists of dark gray (5Y
			2		2		— ^{}}} -A ;} (6 ;}	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S	10Y 4/1	4/1) CLAY WITH SILT AND DIATOMS and grayish olive (10Y 4/1) CLAY NANNOFOSSIL MIXED SEDIMENT. Minor Lithologies: Two laminations of gray (N5) VITRIC ASH occur at Section 2, 59 cm. One thin bed of CRYSTAL VITRIC ASH is
			3		3	Pliocene	** ** ** ** **	XX	ı	5Y 4/1	present at Section 6, 115 cm. General Description: The sediments are highly brecciated and biscuited by coring and extraction Evidence for bioturbation is unevenly distributed. Chondrites and possibly Planolites are present.
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	75 7.5		6 7 8		5 6	late Plio		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	S S	10Y 4/1	

			SIT	E 1018	_	LE	A COR		14X		CORED 407.0 - 416.7 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	}		1		1		3 3 3 3	< vvvv ××		5Y 4/1	NANNOFOSSIL CLAY MIXED SEDIMENT and DIATOM CLAY MIXED SEDIMENT WITH SILT AND NANNOFOSSILS Major Lithologies: This core consists of subtle
			2		2		3	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		10Y 4/1	alternations between grayish olive (10Y 4/1) NANNOFOSSIL CLAY MIXED SEDIMENT and dark gray (5Y 4/1) DIATOM CLAY MIXED SEDIMENT WITH SILT AND NANNOFOSSILS. Color changes are extremely gradual and color boundaries are only approximately
	}	}	4	111111111111111111111111111111111111111	3	Je	<b>&gt;</b>	^^^^^ ^		5Y 4/1	placed. Minor Lithology: An interval rich in disseminated GLAUCONITE extends from the bottom of Section 5 into the top of Section 6.
			5		4	early Pliocene	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	$\times$ $\wedge \wedge \wedge \wedge \wedge$	S	10Y 4/1	General Description: The sediments display slight to moderate bioturbation although severely biscuited. Small sponges are visible throughout the surface of the core. A distinctive bluish cast is formed
			7		5		***************************************	$\times$ $\wedge \wedge \wedge \wedge$	S	5Y 4/1	in reaction haloes surrounding burrows at Section 6, 113 cm.
			8		6		** @ @ ***	>	S	10Y 4/1	
}		3	9	1414141414	7		,		S	5Y 4/1	
1 1.5	0 10	10 20 3	30	V	СС			$\times$	М	10Y 4/1	

			SIT	E 1018 I	НО	LE	A COR		45X		CORED 416.7 - 426.2 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
tww			1		1		****	/VVVVXXX		10Y 4/1	CLAY WITH SILT and NANNOFOSSIL CHALK WITH CLAY  Major Lithologies: This core consists of thick, gradual alternations between dark gray (5Y 4/1) CLAY WITH SILT and grayish
		}	2		2		% % % % % % % % %	$\wedge \wedge \wedge \wedge \wedge \wedge \wedge \wedge$	S	5Y 4/1	olive (10Y 4/1) NANNOFOSSIL CHALK WITH CLAY. Diatoms and foraminifers also compose >5% of the sediment. General Description:
			3		3		\$	\\\\\\\\\\\		10Y 4/1	The core is highly fractured into biscuits and breccia by XCB coring. Bioturbation is slight to moderate. Chondrites and Planolites trace fossils are common throughout.
\rightarrow \int \right	1	}				ocene	**	$\wedge \wedge \wedge$			
			5		4	early Pliocene	%	$\vee \vee $		5Y 4/1	
1.6 1.8	5 7.5	5 10 2	8		5 6		>>> >>> & \	$\wedge \wedge $	S	10Y 4/1	

	SIT	TE 1018	HO	LE	B COR		1H		CORED 0.0 - 9.7 mbsf
GRAPE Magr density susc (g/cm ³ ) (10 ⁻⁴	ept.	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	1		1		**************************************		s	5Y 3/2	CLAY WITH SILT AND DIATOMS and CLAY DIATOM MIXED SEDIMENT WITH SILT Major Lithologies: This core consists primarily of grayish
	> 2	VV VV	_		-» <u>**</u>			5Y 4/2	olive (10Y 4/1) to light grayish olive (10Y 5/1) CLAY WITH SILT AND DIATOMS. Dark olive gray to olive gray (5Y 3/2 to 5Y 4/2) CLAY DIATOM
	3_	V	2		}} }} }}			10Y 4/1	MIXED SEDIMENT WITH SILT occurs in the uppermost 2 m. Nannofossils are present in amounts <10%.  Minor Lithology:
			3						Four thin beds or laminations of dark gray (N4) QUARTZ FELDSPAR SAND occur in Sections 2, 3, 4, and 5. They are also rich in amphibole.
	5		4	Quaternary	— » ••• •••		s s	10Y 5/1	General Description: Open burrows penetrate to 2.5 m depth in this core. Burrows in Section 4 and 5 are sediment-filled. The sediment is moderately disturbed by coring. This core did not retrieve the mudline.
	6 - - - 7		5		3 3 3 3 4 ••••				
	8		6		<b>3</b>			10Y 4/1	
	00 400		7 CC		}		S M		

			SIT	E 1018	HC	LE	B COR				CORED 9.7 - 19.2 mbst
	GRAPE density (g/cm ³ )	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
Ī	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	}	-					00			CLAY WITH DIATOMS AND SILT
	W		1		1		Ø	000000		10Y 5/1	Major Lithology: This core consists of grayish olive (10Y 4/1) to greenish gray (5GY 5/2) CLAY WITH DIATOMS AND SILT.
	\$		_					i		10Y 4/1	Macroscopic sponge spicule aggregates and individual spicules
	}	{	2 -	Ž.							are distributed throughout.
			3		2				S		General Description: The sediments in this core are mostly homogeneous, without evidence of burrows.
	{	}	-					-			
			4		3	,				5GY 5/2	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	}	5		4	Quaternary					
	{	\$	-								
		\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7		5				S	10Y 5/1	
	Manufall		8		6					3/1	
	}	<	9	<u> </u>	<u>_</u>					10Y 4/1	
		/	_		7			-		5Y	
1.	.4 1.6 (0 10 2	20	<u>-₩1</u>	U				M	4/2	



			SIT	E 1018	HC	LE	C COR	E :	2H		CORED 6.5 - 16.0 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	- My-7_m		3-1		2			W.W	S	10Y 4/1	CLAY WITH DIATOMS AND SILT Major Lithology: This core consists of grayish olive (10Y 4/1 to 10Y 4/2) CLAY WITH DIATOMS AND SILT. Small, white sponges are scattered through the sediment and disseminated spicules are consistently present. General Description: The core is only slightly disturbed by coring, but no sedimentary structures are evident.
		*	5		4 5	Quaternary				10Y 4/2	
1 1.5	8 10	0 12.5 2	9 -		6 7 CC				S	10Y 4/1	

			SIT	E 1018		LE	C COR		3H		CORED 16.0 - 25.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
}		}	-	구 -	П		}} }} }} }}			10Y 5/2	DIATOM CLAY WITH SILT and NANNOFOSSIL CLAY
}		{			1		}}			5Y 5/2	Major Lithologies:
}		}	-				} } 6			10Y 5/2	This core consists of gradual alternations between pale olive to grayish olive (10Y 6/2 to 10Y 5/2)
{	\ \ \	5	-		Н					5Y 4/2	NANNOFOSSIL CLAY and olive gray (5Y 5/2 to 5Y 4/2) DIATOM CLAY
}	{	{	2		2		}} }}			10Y 5/2	WITH SILT.
}	}	}	-	<u> </u>			33 6 33 6			5Y 5/3	General Description: The NANNOFOSSIL CLAY is
		}	3		3		% % % % % %		D	10Y 5/2	moderately bioturbated and the DIATOM CLAY WITH SILT is slightly bioturbated with abundant Chondrites trace fossils.
		{	5	\$	4	Quaternary	\$ 6 } } \$ 6			5Y 4/2	
}		}	-	v.			}} }}			5Y 5/2	
}		}	6	죠 -	Н		** ** ** ** ** **			10Y 5/2	
}		{	-	<u> </u>	5		33			5Y 5/2	
}	}	}	7				0			10Y 5/2	
		{	8	V V V V V V			} } 6 »		S	5Y 4/2	
		})		6		** ** ** ** ** **		S	10Y 6/2 To 10Y 5/2	
1 1.5	5 10) 0 10 2	20	**************************************	CC		3		М	5Y 5/3	

			SIT	E 1018	НО	LE	C COR	E 4	4H		CORED 25.5 - 35.0 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			3		2	nary	***************************************			10Y 6/2	CLAY WITH NANNOFOSSILS AND SILT and DIATOM CLAY WITH SILT Major Lithologies: This core consists of pale olive to light grayish olive (10Y 6/2 to 10Y 5/2) CLAY WITH NANNOFOSSILS AND SILT and grayish olive (5Y 5/2 to 5Y 4/2) DIATOM CLAY WITH SILT. Color and compositional changes are subtle and gradual. General Description: The sediment is moderately bioturbated and shows decimeter-scale cyclicity of Chondrites. Note: Expanded material from Sections 1, 2, and 7 is boxed separately.
			6 7		5	Quaternary	>>		S	10Y 6/2 To 10Y 5/2	
		}	8	VV	6				S	5Y 5/2 10Y 5/2	
1 1.5	5 10	0 10 2	9 -	V V V V V V V V V V V V V V V V V V V	7 CC		% (6) } }		М	10Y 4/2	

			SIT	E 1018	НО	LE					CORED 35.0 - 44.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
7	}	} '	Ξ		П		33	Г			DIATOM CLAY and CLAY
			1		1		**************************************			10Y 5/2	Major Lithologies: This core consists of light grayish olive to pale olive (10Y 5/2 to10Y 6/2) CLAY alternating gradationally with dark gray to olive (5Y 4/1 to 5Y 4/3) DIATOM CLAY.
}	}	}	2	Y.Y			}} }				Minor Lithologies: Section 3, 77 cm, contains a thin layer
<	(}		.	2		∭ 6			10Y 4/1	of dark gray (N3) fine SAND.
	}	}	3_	XX XX			» » »			10Y 5/2	General Description: The sediment is slightly bioturbated in intervals of darker colored DIATOM CLAY and moderately bioturbated in
	}	\\		v.v.	3		<u>**</u>			10Y 4/1	the lighter colored CLAY. Chondrites are common.
>	}	}	4	· • · +							Note: Expanded material from Section
}	}	{	-	~ , 7	Н	>	\$\$ }}			10Y 5/2	1 is boxed separately from core.
{	}	<i>\</i>	5_	**************************************	4	Quaternary	3 6		s	5Y 4/3	
}	}	}				Qua	} } } } 		0	10Y	
	}		6_	××	Ш		» 6		S	6/2	
3	}	}	-	žž.						5Y 4/2 10Y	
}	\	}	_	274	5		» 6 » 8			5/2	
V-~-~-	{	}	<u>'-</u>	**************************************			» }}			5Y 5/2	
}	{	{	-	VV	П		}				
	\	{	8	ŽŽ.	6					5Y 4/2	
}	}	}	-	Y-Y			\$\$ }}				
		}	9		7		- ************************************			10Y 5/2	
	<u> </u>		<u>10</u>		CC		33		М		
1.4 1.6	5 10	10 20 3	0								

SIT	Έ	1018	HC	LE	С	COR	Е	6H
Γ.	П		Τu				b	П

CORFD	11 E	E 1 0	mhaf

	GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
				1_		1		**	M M M		10Y 5/2	DIATOM CLAY and CLAY WITH SILT Major Lithologies: This core consists of light grayish olive (10Y 5/2) CLAY WITH SILT and olive gray (5Y 4/2 to 5Y 5/2) DIATOM CLAY. Color changes between lithologies are gradual.
	Jum			2	V V	2		% } } %		S	5Y 4/2 5Y 4/2	Minor Lithology: Several thin graded beds of grayish olive (10Y 4/1) FINE SAND occur in Section 6, 94-97 cm, 106-108 cm, 122- 123 cm, and Section 7, 40-44 cm, and
				4_	**************************************	3					5/2 5Y 5/2	52 cm. General Description: The sediment is slightly to moderately bioturbated and mottled. Chondrites are common.
			}	5 <u>-</u>		4	Quaternary	**************************************				
	{			6_		5		% % % %			4014	
			}	7 - 8				% % % % %			10Y 5/2	
				9		6		**************************************				
1	1.5	5 10	0 20 4	10		7 CC		<u>***</u>		S M		

			SIT	E 1018		LE	C COR				CORED 54.0 - 63.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
M			1		1			WWW		10Y 5/2	CLAY NANNOFOSSIL MIXED SEDIMENT and DIATOM CLAY Major Lithologies: This core consists of alternations between light grayish olive (10Y 5/2) CLAY NANNOFOSSIL MIXED SEDIMENT and olive gray to olive (5Y 5/2 to 5Y 4/3) DIATOM CLAY. Color
{			2	~~~ ~~~	2					5Y 4/3 10Y	changes are gradual. Minor Lithologies:
1 3		{	-	7474 VV			} } }			5/2 5Y	Section 1, 56-60 cm, contains a thin layer of dark gray (N3) FINE SAND.
}	}	}	3	V V V V V V V V V V V V V V V V V V V	3					4/3 To 5Y 5/2	General Description: The sediment is moderately bioturbated. Chondrites are common.
		\ \ \ \ \	5 - 6 -		4	Quaternary			S	10Y 6/2	Note: Expanded material from Sections 3, 4, 5, and 6 is boxed separately.
	{		7 -	**************************************	5		' "			5Y 5/2	
}	}	}	-							10Y 5/2	
}	}	>	8 -	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						5Y 5/2	
}	}	}	-		6					10Y 5/2	
			9	* v v · · · · · · · · · · · · · · · · ·	7		} } }		S	5Y 4/2	
\ 0 1	5 10 () 25 5	1 <u>0</u>		СС		}} }} }}		М	10Y 5/2	

			SIT	E 1018			C COR	Ε	8H		CORED 63.5 - 69.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1			^^^^^		5Y 4/2	CLAY WITH SILT AND DIATOMS Major Lithology: This core consists of olive gray to light grayish olive (5Y 4/2 to 10Y 5/1) CLAY WITH SILT AND DIATOMS. Minor Lithology:
MAN			2	V	2	nary					Section 4, 6-7 cm, 15-17 cm, and 30- 33 cm, contain thin graded layers of greenish gray (5GY 5/1) FINE SAND. SAND is also present as small pods disseminated through the fine-grain sediment.
A			4		3	Quaternary	** - ** - ** ** ** ** ** ** ** ** ** **		S	10Y 5/1	General Description: The sediment is moderately bioturbated. Section 1 is highly fractured and no sediment structures are discernible.
			5	V	4		**************************************				
1 1.5	8 10) 20 4	6 <u>-</u> 10	V	5 CC		\$\$ }} }}		M	10Y 4/1	

			SIT	E 1018		LE	C COR				CORED 69.5 - 79.0 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
man Manner Manner	when the many the same is a second se		1 2 3 5 6 7 7		3	Quaternary	**************************************	M M	O	10Y 5/2 10Y 6/2 To 10Y 5/2	CLAY WITH SILT Major Lithology: This core consists of CLAY WITH SILT. The silt fraction is composed mainly of quartz and feldspar. Color varies gradually between light grayish olive to pale olive (10Y 5/2 to 10Y 6/2) and olive gray (5Y 5/2). In the lower part of the core, decimeter-scale color changes occur. Minor Lithology: Several thin, distorted layers of dark greenish gray (5GY 4/1) SAND occur in Section 2, 101 cm, 114-115 cm, 140-142 cm, and Section 3, 50 cm. General Description: The sediment is moderately to heavily bioturbated. Chondrites are common in the darker intervals near the base of the core.
1 1.5	8 10	0 20 3	8 -		6 CC		% 6 **** % 6 **** % 6	-	S M	5Y 5/2 To 10Y 5/2	

			SIT	E 1018		LE					CORED 79.0 - 88.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
}	}	3			1		}} }} }}			10Y 5/2	NANNOFOSSIL CLAY MIXED SEDIMENT and CLAY DIATOM MIXED SEDIMENT WITH SILT
			2		2		**************************************		S	10Y 6/2	Major Lithologies: This core consists of light grayish olive (10Y 5/1) to pale olive (10Y 6/2) NANNOFOSSIL CLAY MIXED SEDIMENT and olive gray (5Y 4/2) to grayish olive (10Y 4/2) CLAY DIATOM MIXED SEDIMENT WITH SILT. These lithologies are interbedded at decimeter scale in the lower part of the core.
}			3_				}}} }}				General Description: The sediments are moderately to
}		}	-		3		}}} }}} }}			10Y 5/1	heavily bioturbated in the upper half and moderately to slightly bioturbated
}	}		4_			ıry	>>> >>> >>> >>>			10Y 6/2	in the lower part.
}	}	_	5		4	Quaternary	}} }}				
}	}	}	6			g	% % % %			10Y 5/2	
}	}	{	7		5		}} }} ??			10Y 6/2	
}		}					;; ;; 6			5Y 4/2	
			8		6		» » » » 6			10Y 5/2 5Y	
	$ \rangle $	}	9 -						S	4/2	
	}	}	10		7 CC		<pre></pre>		М	10Y 5/2 To 10Y 4/2	
0 1	5 10 () 25 5	0	Harris Valley	120			ш			

			SIT	E 1018	НО	LE	C COR				CORED 88.5 - 98.2 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	_	<u></u>	1111111		1			~~ ~~		5Y 4/1	NANNOFOSSIL DIATOM CLAY MIXED SEDIMENT WITH SILT and CLAY WITH NANNOFOSSILS
	}	}	1_							10Y 5/1	Major Lithologies: This core consists of light grayish olive
		7	2		2					5Y 4/1	(10Y 5/1) to dark gray (5Y 4/1) NANNOFOSSIL DIATOM CLAY MIXED SEDIMENT WITH SILT and CLAY WITH NANNOFOSSILS. Intact Sagarites sponges are distributed through the sediment.
	5 10		3		3 4 5 6 CC	Quaternary	*		S	10Y 4/1	General Description: The sediments are slightly to heavily bioturbated in the lower half of the core. Trace fossils include Chondrites.

	SIT	E 1018	НС	LE	С	COR	Е	12)
 :	eter	Graphic	ction	ge	Stru	ctura	sturb	alde

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GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
	{ '		-	v. v. v. v. v. v.			33 6 33 33	× × ×		5Y 4/1	DIATOM CLAY WITH SILT and CLAY WITH DIATOMS AND SILT
}			1		1				S	5GY 5/1	Major Lithologies: This core consists of grayish olive (10Y 4/1) to greenish gray (5GY 5/1) DIATOM CLAY WITH SILT and CLAY WITH DIATOMS AND SILT. Intact
}		}	2		2		}} }} }}			10Y 4/1	tubular sponges (Sagarites?) and disseminated spicules are common in the sediments.
}	{	}	3	74 777							General Description: The sediments are mostly homogeneous. Distinct burrows are
}		{	-	VV VV VV						5Y 4/1	common within a few intervals. Note: The top 20 cm of Section 1 is
}		}	4	**************************************	3	nary					disturbed.
}	}	{	5_		4	Quaternary					
}		}	6_	Ž	_						
	}	}		ž Ž	5		}			10Y 4/1	
}	}		7						S		
}		}	8	v V	6						
1 1.5	5 10	0 20 4	.0	Ž.	7 CC		3	*	M		

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			SIT	E 1018	_	LE	C	COR		13X		CORED 107.9 - 117.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Struc	ture	Disturb	Sample	Color	Description
}			1_	V V V V V V V V V V V V V V V V V V V	1		3				5GY 5/1 To 10Y 4/1	CLAY WITH SILT AND DIATOMS Major Lithology: This core consists of grayish olive (10Y 4/1) to grayish green (5G 5/1) CLAY WITH SILT AND DIATOMS.
M		Marana Ma	2		2		}				5GY 5/1 10Y 4/1 5GY	Intact sponges and disseminated spicules are distributed through the sediment. Darker bands too thin to show color are indicated in the Structure column.
}	}	{	3	v V							5/1 10Y 4/1	General Description: The sediments are slightly to moderately bioturbated. Several
}		~~	4	N	3		33 33 33 33 33 33			S	5G 5/1	intervals include distinct Chondrites trace fossils. The core is slightly to moderately disturbed.
			5	V V V V V V V V V V V V V V V V V V V	4	Quaternary	33 33 33 3	6			10Y 4/1	
}			-		_		} } } } }	6		S	5Y	
}	{		7	X	5		33	•			4/1	
\			8	V V V V V V V V V V V V V V V V V V V	6		— ³³	6			10Y 4/1	
}	}	\$	9 -		7		33				5Y	
1 1.5	5 10 1	0 15 2	0	Miller	μÜ		I 55		>	M	3/2	

			SIT	E 1018	НС	LE					CORED 117.5 - 127.2 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
Monor of the state			2 3	**************************************	2		%		S	5Y 3/2 5Y 4/1 10Y 4/1 5Y 4/1 10Y 4/1 10Y 4/1 10Y 4/1	CLAY WITH DIATOMS AND SILT Major Lithology: This core consists of dark olive gray (5Y 3/2) to light grayish olive (10Y 5/2) CLAY WITH DIATOMS AND SILT. Foraminifers, sponge spicules, and organic matter each are present in small quantities. Intact sponges (Sagarites?) are present throughout the core. General Description: The sediments of this core are homogeneous to distinctly burrowed. Chondrites are displayed in most sections.
			5		4	Quaternary	% % % % % % % % % % % % % % % % % % %		S	10Y 4/1 10Y 4/1 10Y 5/2 To 10Y 5/1	
1.4 1.6	5 10	0 10 2	8 - 9		6 7 CC		% 6 % 6 % 6 % 6		М	5Y 4/1 10Y 5/1 5Y 3/2 10Y 4/1 5Y 4/1 5Y 3/2	

1.4 1.6

10

5

10

			SIT	E 1018		DLE	C (COR		16X		CORED 136.9 - 146.6 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Struc	ture	Disturb	Sample	Color	Description
	W				1		>> >> >>			S	5GY 5/1	CLAY WITH DIATOMS AND SILT, DIATOM CLAY and NANNOFOSSIL CLAY WITH SILT
	}		1				33 33 33	6			5Y 4/1 5Y 3/2	Major Lithologies: This core consists of interbedded dark olive gray (5Y 3/2) to grayish olive (10Y 4/1) CLAY WITH DIATOMS AND
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	}	}	2	****	2					S	5Y	SILT to DIATOM CLAY, and greenish gray (5GY 5/1) NANNOFOSSIL CLAY WITH SILT. Macroscopic sponges and disseminated sponge spicules are
}	}	}	3 -	**************************************			**				4/1	present through the core. Color and compositional contacts are sharp to gradual.
		}	4		3		33 33 33 33	6			5GY 5/1 5Y 4/1	Minor Lithology: Light gray (N6), very fine SAND occurs in this core as thin laminations in Section 5 and as tiny pods (filled
	~~		-			nary	3				5GY 5/1	burrows?) in Section 7. General Description: This core is only slightly disturbed by
		}	5		4	Quaternary	333 333 333	6			10Y 4/1 5GY	XCB coring. The sediments range from homogeneous to distinctly and heavily burrowed. Trace fossils include Chondrites.
	}	}	6 <u>-</u>	× × × × × × × × × × × × × × × × × × ×			>>> 	6	1 1 1 1 1		5/1	
	{	}	7	**************************************	5		- » - »	666			5Y 4/1	
}			8				}}	6	I	S		
}		}		Š	6		3				5GY 4/1	
	}	\ \{	9	Š.	7		33 33 33	6				
1.4 1.6	5 10 () 20 4	10		cc		\$\$ }}		-	M	5Y 3/2	

			SIT	E 1018	HC)LE		COR				CORED 146.6 - 156.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Struc	ture	Disturb	Sample	Color	Description
1.4 1.6	5 10		1 2 3 4 5 7 8 9		1 2 3 4 5 CCC	Quaternary	*****	6	MM M	<i>S S S</i>	5Y 4/1 5GY 5/1 10Y 4/1 10Y 4/1 10Y 4/1	CLAY WITH SILT and CLAY DIATOM MIXED SEDIMENT WITH SILT Major Lithologies: This core consists of interbedded (40-cm scale) grayish olive (107 4/1) to dark gray (57 4/1) CLAY DIATOM MIXED SEDIMENT WITH SILT and greenish gray (5GY 5/1) CLAY WITH SILT. Small, white sponges are visible through the upper half of the core. General Description: This core is slightly to moderately burrowed. Chondrites and possibly Planolites(?) are locally present. Note: Upper 40 cm of Section 1 stuck in barrel and was reinserted into core liner.

			SIT	ΓE 1018	HC	LE	СС	OR		18X		CORED 156.3 - 165.9 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Struct	ure	Disturb	Sample	Color	Description
	Long	- -	1_		1				WW		5Y 4/1	CLAY WITH SILT AND DIATOMS Major Lithology: This core consists of irregular alternation between dark gray (5Y 4/1) and greenish gray (5GY 5/1) CLAY
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			2		2						5GY 4/1	and greenish gray (5GY 5/1) CLAY WITH SILT AND DIATOMS. Intact, macroscopic sponges are visible throughout the entire core. Darker color bands too small to indicate in the Color column are shown in the Structure column.
			3 - - - 4 -		3		***	00			4/1 To 5GY 5/1 5GY 5/1 5Y	General Description: The sediments are homogeneous to moderately bioturbated. Chondrites are distinct and abundant in the central part of the core.
	Lumn		5		4	Quaternary	***************************************	0000		S	4/1 To 5GY 5/1 5Y 4/1	
			6		5		***			5		
			8_	,	6		}			S	5GY 5/1	
			9_		7		>				5GY 4/1	
1.4 1.6	6 8 1	0 15 2	20	- T	cc					M		

			SIT	E 1018		E					CORED 165.9 - 175.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Jan	Structure	Disturb	Sample	Color	Description
1 1.5	5 10 0		2		1 2 3 3 4 5 5 6 7 CC	עממנידומו ץ	%		S	10Y 4/1 10Y 5/1 10Y 4/1 10Y 4/1 10Y 4/1 5Y 4/1 10Y 4/1 5Y 4/1 10Y 4/1 5Y 4/1 10Y 4/1 5Y 4/1 10Y 4/1	DIATOM OOZE WITH CLAY and DIATOM CLAY MIXED SEDIMENT WITH SILT Major Lithologies: This core consists of 30-150 cm alternations between dark gray (5Y 4/1) DIATOM OOZE WITH CLAY and grayish olive (10Y 4/1) DIATOM CLAY MIXED SEDIMENT WITH SILT. Sponges are common throughout the core. General Description: This core was recovered with only slight disturbance from XCB coring. The core is slightly to moderately bioturbated where not homogeneous.

SITE	1018	HOLE	С	CORE	20X

CORED 175.5 - 185.2 mbsf

GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
}		}	1	Ž	1				s	5GY 5/1	CLAY WITH SILT AND DIATOMS, NANNOFOSSIL OOZE WITH CLAY AND DIATOMS and DIATOM CLAY MIXED SEDIMENT
}		}						İ		10Y 4/1	Major Lithologies: This core consists of thick, meter- scale, alternations between greenish
}		{	2		2				s	5Y 4/1	gray (5GY 5/1) CLAY WITH SILT AND DIATOMS, dark gray (5Y 4/1) to grayish olive (10Y 4/1) NANNOFOSSIL OOZE WITH CLAY
			3_							5GY 4/1	AND DIATOMS, and dark olive gray (5Y 3/2) DIATOM CLAY MIXED SEDIMENT. Small (mm-scale), white sponges are distributed throughout the core.
}		}	4	V V V V	3	ry	;; ;; ;; ; ;			5GY 5/1	General Description: The sediments are mostly homogeneous, but distinct burrows are present in Sections 3 and 4.
			5		4	Quaternary	}			10Y 4/1 5Y 5/1	
			6		5		⁵ 6		s	5Y 3/2	
}		}	7							5Y 4/1	
}		}	8_		6					10Y 4/1	
			9							5GY 5/1	
1 1.5	5 10 0) 10 2	20		7 CC			MM	M	5GY 4/1 5Y 4/2	

			SIT	E 1018			C COR	Е			CORED 185.2 - 194.7 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	/	1		} }			5Y 4/2	CLAY WITH SILT and DIATOM CLAY WITH SILT Major Lithologies: This core alternates between light
			2	V 4	2		**************************************		S	10Y 5/2	grayish olive to pale olive (10Y 5/2 to 5Y 6/3) CLAY WITH SILT and olive gray to grayish olive (5Y 4/2 to 10Y 4/2) DIATOM CLAY WITH SILT. Color changes are gradual. General Description:
		}	3 -		3		*** ** ** **	+		5Y 5/3 To 5Y 4/3	The sediment is moderately bioturbated. Chondrites are common in the lower portion of the core.
		}	5		4	Quaternary	** ** * * *	1-1-1-1-1-1-1-		5Y 5/3 To 5Y 6/3	
		}	6 <u>-</u>	/			} } } }	111111	S	5Y 4/2	
			7 <u> </u>		5		33 33 33 33 33 34			10Y 3/1	
			9		7			1-		5Y 5/2 To 10Y 4/2	

SITE 1018

			SIT	E 1018	НС	LE	C COR	Ε			CORED 194.7 - 204.4 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1		~~ ~ % % % % % % % % % % % % % % % % %	\wedge	S	10Y 4/1	CLAY WITH NANNOFOSSILS and CLAYEY DIATOM OOZE Major Lithologies: This core consists of olive gray to olive (5Y 4/2 to 5Y 4/3) CLAYEY DIATOM OOZE alternating with grayish olive (10Y 4/1 to 10Y 4/2)
}			2 -		2	•	% % % % % % % % % % % % % % % % % % %	<u> </u>		10Y 4/2	CLAY WITH NANNOFOSSILS. Glauconite is disseminated on the cut surface in Section 2, 70-80 cm. General Description: The sediment is moderately bioturbated but extensive fracturing and biscuiting makes most
			4 -		3		} } }			5Y 4/3	sedimentary structures difficult to discern. Chondrites are abundant throughout much of the core.
}		}	5	- f°v°v°	4	Quaternary	**************************************	111111111		10Y 4/1	
	}	}	6		5			1111	s	5Y 4/2	
}		}	7				33 33 33 33			5Y 4/3	
		}	8 - - - - -		6					10Y	
}		}	9 -		7 CC		3 3 3 3 3	111111		4/2	
1 1.5	5 10 (0 20 4	0	4	1		<u> </u>		M		

			SIT	E 1018	HC	DLE	C COR				CORED 204.4 - 214.0 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1		» » » » »			5Y 4/3	CLAY WITH DIATOMS and DIATOM CLAY WITH SILT Major Lithologies: This core consists of olive to olive gray (5Y 4/3 to 5Y 4/2) DIATOM CLAY
								\perp \perp \perp		5Y 5/3	WITH SILTand olive to light grayish olive (5Y 5/3 to 10Y 5/2) CLAY WITH DIATOMS. Color changes are subtle
		{	2		2		3 3 3	\perp		5Y 4/2	and gradational. General Description: The sediment is slightly to moderately bioturbated. Chondrites are common in
			3 - - - - - 4 -		3			\perp			the intervals with CLAY WITH DIATOMS.
			5		4	late Pliocene	> > > > > > > > > > > > > > > > > > >			5Y 4/3	
			6	X				1			
			7 8		5		**	+	S	10Y 5/2	
		}	9		6 7		» » » » » » »	1111111111	S	5Y 4/3	
1.4 1.6	5 10	0 10 2	20	:[v*\					M		

			SIT	E 1018		LE	C COR	E			CORED 214.0 - 223.6 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
3	7	}		, v.v.v				1		5Y 4/1	CLAY WITH SILT and CLAY DIATOM MIXED SEDIMENT WITH SILT
		}	1_		1			144444		10Y 5/1	Major Lithologies: This core consists of olive gray (5Y 4/2) CLAY DIATOM MIXED SEDIMENT WITH SILT and light grayish olive to olive (10Y 5/2 to 5Y
}		}	2	1,000			3 6	1		5Y 4/2 10Y	4/3) CLAY WITH SILT. Color and compositional changes are gradational.
{	[}			2		3 6	1		5/2	General Description: The sediment is slightly bioturbated in
		}	3					\dashv		5Y 4/2	small intervals, mainly showing Chondrites trace fossils. Otherwise, the sediment is homogeneous.
			4		3	late Pliocene	3 6			10Y 5/2	
\ \{\}		{			4	lat		1-1-1-		5Y 4/2	
			7		5		3 6		S	10Y 4/2	
		}	8 -	****	6			HHHHH	S	5Y 4/2	
		}	9		7 CC		} 6	+++++++	М	5Y 4/3	

			SIT	ΓE 1018)LE					CORED 223.6 - 233.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
transfer and the			1		1		> > > > > > > > 6			5Y 5/2	CLAY DIATOM MIXED SEDIMENT WITH SILT and CLAY WITH NANNOFOSSILS Major Lithologies: This core consists of olive gray to light grayish olive (5Y 5/2 to 10Y 5/2) CLAY WITH NANNOFOSSILS and dark gray to olive (5Y 4/1 to 5Y 4/3) CLAY DIATOM MIXED SEDIMENT WITH SILT. Color changes are gradational.
		}	3	**************************************	3			1	S	5Y 4/2	Minor Lithologies: Section 6, 52-55 cm, contains a FINE SAND which is overlain by a thin interval enriched in glauconite. General Description: The sediment is slightly to moderately
			5		4	late Pliocene	** ** ** ** ** ** **	+	S	10Y 5/2	ine seament is slightly to moderately bioturbated.
-May Market			7		5		@@ 			5Y 4/3 To 5Y 4/1	
1.4 1.6	5 10	0 20 4	9		7 CC		\$ } } }	\dashv	М	10Y 4/2	

				SIT	E 1018	НО	LE	C COR	E 2	26X		CORED 233.3 - 242.9 mbsf
	GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
				2 3		1 2 3 4 5 CCC	late Pliocene	>	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	S	10Y 4/2 To 5Y 4/2	DIATOM CLAY MIXED SEDIMENT WITH NANNOFOSSILS Major Lithology: This core consists of grayish olive to olive gray (10Y 4/2 to 5Y 4/2) DIATOM CLAY MIXED SEDIMENT WITH NANNOFOSSILS. General Description: Sections 1 through 4 are brecciated and no sediment structures are determinable.
- 1	1.5	8 6	0 10 2	0								

			SIT	TE 1018	HC	LE	C COR				CORED 242.9 - 252.5 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1		> > > > > >	-		5Y 5/3	NANNOFOSSIL CLAY MIXED SEDIMENT and CLAYEY DIATOM OOZE Major Lithologies: This core consists of olive to light grayish olive (5Y 5/4 to 10Y 5/2) NANNOFOSSIL CLAY MIXED SEDIMENT grading to olive gray (5Y
	}		2		2		% @ % @ % @			5Y 5/4	4/2) CLAYEY DIATOM OOZE near the base of the core in Section 6. Abundant glauconite grains are scattered throughout Section 2. General Description: The interval containing
			4 <u>-</u> -		3	late Pliocene	@ @ @ *********************************	HHHHHHHHHHHHHHH	S	10Y 5/2	NANNOFOSSIL CLAY MIXED SEDIMENT is moderately bioturbated while CLAYEY DIATOM OOZE is homogeneous.
			7		5		<pre> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</pre>	HHHHHHHH		5Y 5/4	
Monday			9 -		6 7				S	5Y 4/2	
.4 1.6	5 10	0 10 2	20					丄	M		

			SIT	E 1018	НС	LE	C COR	E :	28X		CORED 252.5 - 262.2 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
}		}					} }			5Y 4/3	CLAYEY NANNOFOSSIL OOZE WITH DIATOMS and CLAY WITH SILT
			2 3 4 4		2	Pliocene	0 0 0 0 	 	S	5Y 5/2 To 5Y 5/3	Major Lithologies: This core consist of alternations between olive to olive dark gray (5Y 4/3 to 5Y 4/1) CLAY WITH SILT and olive to light grayish olive (5Y 5/3 to 10Y 5/2) CLAYEY NANNOFOSSIL OOZE WITH DIATOMS. Color changes are gradational. Glauconite grains occur near the top of the core scattered throughout the main lithologies. General Description: The sediment is slightly to moderately bioturbated. Chondrites are common in the lower part of the core.
}			5	V(+]+]	4	late P	~~~~ -			5Y 4/2 5Y	
		}	6 <u>-</u>	M[+_+]			\$ \$	\dashv		5/3 5Y 4/2	
}		}		V 1 1	5		} } %			5Y 4/1 10Y	
}			7	L			» » 6 » 6	14///		5/2 5Y 4/1	
}	}	{	8 - -				~	//////		10Y 5/2	
}		}		,	6		> } } % 6		S	5Y 4/1	
}		}	9 -		7 CC		» } }		B.4	10Y 5/2	
1 1.5	5 10 (0 20 4	<u> </u>	.р.т.	122		,		M		<u> </u>

		SIT	E 1018	НС	LE	D COR				CORED 0.0 - 9.3 mbsf
GRAPE density (g/cm ³)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
density	suscept.	$\overline{}$	Graphic	_			Disturb	Sample	5Y 4/2	
}		8 -		6		}}				
1 1.5	0 250 5	9 - 00	V V	7 CC		33		М		

	SITE	1018	HOLE	D	CORE	2H
--	------	------	------	---	------	----

CORED 9.3 - 18.8 mbsf

(10Y 4/2) NANNOFOSSIL CLAY in the upper and middle parts and olive (5Y 4/3) DIATOM CLAY WITH SILT interbedded with NANNOFOSSIL CLAY in the lower part. The boundaries are gradational. Minor Lithology: Small pods of VITRIC VOLCANIC ASh occur in Section 4, 16 cm, and Section 6, 42 cm. General Description: The core is slightly to moderately bioturbated. Note: Gas voids occur in Section 5, 94 98 cm, and Section 6, 23-26 cm.	_				011	_ 1010	110		D COIN				OONED 3.3 - 10.0 111031
Major Lithologies: The core is composed of grayish olive (10Y 4/2) NANNOFOSSIL CLAY in the upper and middle parts and olive (5Y 4/3) DIATOM CLAY WITH SILT interbedded with NANNOFOSSIL CLAY in the lower part. The boundaries are gradational. Minor Lithology: Small pods of VITRIC VOLCANIC ASI occur in Section 4, 16 cm, and Section 6, 42 cm. General Description: The core is slightly to moderately bioturbated. Note: Gas voids occur in Section 5, 94 98 cm, and Section 6, 23-26 cm.		density	(%)	suscept.	Meter		Section	Age	Structure	Disturb	Sample	Color	Description
7 3 4/3 10Y 4/2 7 3 5Y 4/3 1 1.5 5 10 0 10 20	1	1.5	5 10		4		3 4 5	Quaternary	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	****	М	5Y 4/3 10Y 4/2 5Y	CLAY WITH SILT Major Lithologies: The core is composed of grayish olive (10Y 4/2) NANNOFOSSIL CLAY in the upper and middle parts and olive (5Y 4/3) DIATOM CLAY WITH SILT interbedded with NANNOFOSSIL CLAY in the lower part. The boundaries are gradational. Minor Lithology: Small pods of VITRIC VOLCANIC ASH occur in Section 4, 16 cm, and Section 6, 42 cm. General Description: The core is slightly to moderately bioturbated. Note: Gas voids occur in Section 5, 94-

			SIT	E 1018		LE	D COR				CORED 18.8 - 28.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure		Sample	Color	Description
}	\'	3	-	výy Výy				>		5Y 4/1	DIATOM CLAY WITH SILT and NANNOFOSSIL CLAY
}	}	}	1	1 1 1 1 1 1	1		>	i 		10Y 5/1	Major Lithologies: This core consists of gradational
			2		2		>			5Y 5/2	alternation between light to medium grayish olive (10Y 5/1) to olive gray (5Y 5/2) NANNOFOSSIL CLAY and dark gray (5Y 4/1) to grayish olive (10Y 4/1) DIATOM CLAY WITH SILT. Sponges are distributed continuously through the core. General Description: The sediments are mostly homogeneous, with Sections 1, 4, and 5 being slightly to moderately bioturbated. Chondrites is present in
	{	{	4 -	<u></u>	3			į		10Y 5/1	Section 4.
	$ \rangle $					Quaternary	}} >>			10Y 5/2	
	$\left \left\{ \right. \right $	}	5	výy výy	4	Quat	% % % %			5Y 4/2	
			7		5		***			10Y 5/1	
1 1.5	5 10 () 10 2	9 -	V V V V V V V V	7 CC			 ≥	M	10Y 4/1	

			SIT	E 1018		LE	D C	OR	E 4			CORED 28.3 - 37.8 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Struct	ure	Disturb	Sample	Color	Description
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			1		1 2 3 4 5 6 CC	Quaternary		0000	WW	М	10Y 4/2	DIATOM CLAY WITH SILT and CLAY WITH NANNOFOSSILS Major Lithologies: This core consists of grayish olive (10Y 4/1 to 10Y 4/2) DIATOM CLAY WITH SILT to CLAY WITH NANNOFOSSILS. Color and compositional variation is gradual. Sponges are present in Sections 6 and CC. Darker color bands within one color designation are indicated in the Structure column. General Description: The core is slightly mottled to distinctly burrowed throughout, with burrows being more evident in darker horizons. Pyritized burrows are present in Sections 5 and 6.
1 1.5	8 10	10 15 2	0									

		SIT	E 1018	HC	LE	D COR	Ε :			CORED 37.8 - 47.3 mbsf
GRAPE density (g/cm ³)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure		Sample	Color	Description
W-		1		1		} } } }	*		10Y 4/2	CLAY WITH SILT and DIATOM CLAY Major Lithologies: This core consists of alternation between grayish olive (10Y 4/2) CLAY WITH SILT and olive gray (5Y 4/2) to
		-	V V V V			33			5Y 4/2	dark olive gray (5Y 3/2) DIATOM CLAY. Color and compositional contacts are sharp to gradual and
{	}	2 -		2		3 3			10Y 4/2	usually are bioturbated. Sponges are visible in the upper 1/2 of the core.
{	}	3 -	XX I			3			5Y 4/2	General Description: The core is bioturbated throughout, with burrows being especially distinct at
		4 -	- Jal	3		>			10Y 4/2	lithologic contacts.
		5		4	Quaternary	» » »			5Y 3/2	
		6 <u>-</u>		5		» » » » » » » »			10Y 4/1 To 10Y	
}		7 <u>-</u>		_		\$ } }			4/2	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	8 - - -	××	6					5Y 4/2 10Y 4/2	
{	\{	9 -		7 CC		}} } }		М	5Y 3/2	
1 1.5 2	2 20 3	30	V			/		141		1

CITE	1010	HOLE	\Box	CORF	eн

CORED 47.3 - 56.8 mbsf

GRAPE density (g/cm ³)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		2		2		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	WW		10Y 4/2	CLAY NANNOFOSSIL MIXED SEDIMENT and DIATOM CLAY WITH SILT Major Lithologies: This core consists of grayish olive (10Y 4/1) to light grayish olive (10Y 5/2) CLAY NANNOFOSSIL MIXED SEDIMENT and DIATOM CLAY WITH SILT. Color and compositional transitions are gradational. Minor Lithology: Several thin (1-7 cm) beds of dark gray (10Y 3/1) fine grained SAND are present in Sections 4 and 6. All have sharp bases and many are normally graded. General Description: This core is homogeneous to slightly bioturbated. It was recovered in good
	}	5 - - - - - - - - - - - - - - - - - -		4		91.9			10Y 4/1	condition.
0 1	0 100 2	8 8 9		6 CC		33 010 010 010 010		М	10Y 4/1	

		SIT	E 1018	HC	LE	D COR	E			CORED 56.8 - 66.3 mbsf
GRAPE density (g/cm ³)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1		1		<pre></pre>	W		5Y 4/3 To 5Y 5/2	CLAY NANNOFOSSIL MIXED SEDIMENT and DIATOM CLAY Major Lithologies: This core consists of light grayish olive (10Y 5/2) to pale olive (10Y 6/2) CLAY NANNOFOSSIL MIXED SEDIMENT and olive (5Y 4/3) to olive gray (5Y 4/2)
		2 - 3		2		% % % % %			10Y 5/2 To 10Y	DIATOM CLAY. General Description: The sediments are slightly to moderately bioturbated and include the trace fossil Chondrites. Note: Expanded material from Section
}		4 <u>-</u>		3	ıary	>> >> >>			6/2	5 was boxed separately.
		5		4	Quaternary				5Y 5/2 To 10Y 5/2	
}		7		5		% % % %			10Y 5/2	
		8 -	× × × × × × × × × × × × × × × × × × ×	6		% % % % % % % % % % % % % % % % % % %			5Y 4/2 To 5Y 4/3	
0 1 :	2 20 3	9		7 CC			- - - - -	М	10Y 5/2	

			$\overline{}$	TE 1018								CORED 66.3 - 75.8 mb
lensity	(%) susc	netic cept. -6 SI)	Meter	Graphic Lith.	Section	Age	Struc	ture	Disturb	Sample	Color	Description
			1		1 2 3 4	Quaternary	, , , , , , , , , , , , , , , , , , ,	6 6] MM	8	5GY 4/1 5Y 4/1 10Y 4/1 5Y 5/1 10Y 4/1	CLAY WITH SILT AND DIATOMS Major Lithology: This core consists of dark gray (5Y 4 to grayish green (5GY 4/1) CLAY WITH SILT AND DIATOMS. Minor Lithology: Three laminations of dark gray (N4), micaceous, very fine SAND occur in Sections 5,6, and 7. General Description: The sediments are mostly homogeneous with only slight evider of bioturbation. Sponges and very small pods of SILTY SAND are distributed throughout the core. Note: Expanded material from Sections 3 and 4 is boxed separately.

			SIT	E 1018		DLE	D COR				CORED 75.8 - 85.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1.5	5 10	0 20 3	2 3 1 4 5 6 7 7 8 9 9		1 2 3 4 5 6 7 CCC	Quaternary	% 6 %	M M	M	5GY 5/1 5GY 4/1 5GY 5/1 10Y 4/1	CLAY WITH SILT AND DIATOMS Major Lithology: This core consists of greenish gray (5GY 5/1) to grayish olive (10Y 4/1) CLAY WITH SILT AND DIATOMS. Sponges are scattered throughout the sediment. General Description: The core is slightly to moderately disturbed by coring. The sediments are mostly homogeneous, with burrows, including Chondrites, only visible in the lower part of the core.

			SIT	E 1018	НС	LE	D COR	Ε			CORED 85.3 - 94.8 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		}	1		1					10Y 4/1	CLAY WITH SILT Major Lithology: This core consists of dark gray (5Y 4/1) to grayish olive (10Y 4/1) CLAY WITH SILT. Small white sponges
		}					<pre>33 33 33 34 34 34 35 36 36 37 37 38 38 38 38 38 38 38 38 38 38 38 38 38</pre>			5Y 4/1	WITH SILT. Small white sponges (Sagarites?) are present throughout the core.
			2		2		3 6			10Y 4/1 5Y	General Description: The sediment is homogeneous to moderately bioturbated. Chondrites trace fossils are present in Section 2.
		}	3		_		%	 		4/1 10Y 5/1	Note: Expanded material from Section 3 is boxed separately.
}	}		4		3		** ** *			10Y 4/1	
		}	5		4	Quaternary				5Y 4/1	
}			6			Ø	}			10Y 4/1	
	}		7		5		3 3 3 3			5Y 4/1	
		{	8				33				
}		}	9		6		}} }} }}			10Y 4/1	
}	}	}	10-		7 CC		}} }}	ww	М	5GY 4/1	
1 1.5	5 10 1	10 20 3	30		ت ـ	_		_	IVI		1

			SIT	E 1018	НО	LE	D COR				CORED 94.8 - 104.3 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
density	(%)	suscept.	1 2 3 4 5 6 7		2 3 Section 5	Quaternary	Structure	Distur	Sample	5GY 4/1 10Y 4/1 5GY 4/1 5GY 4/1 N8 5GY 4/1 N8 5GY 4/1 10Y 4/2 To 10Y 5/1	NANNOFOSSIL DIATOM CLAY MIXED SEDIMENT WITH SILT Major Lithology: This core consists of greenish gray (5GY 4/1) to light grayish olive (10Y 4/1) NANNOFOSSIL DIATOM CLAY MIXED SEDIMENT WITH SILT. Sponges are distributed throughout the entire core. Minor Lithology: A 9-cm thick, graded bed of white (N8) VITRIC ASH occurs at Section 4, 47-56 cm. General Description: The core is slightly to moderately bioturbated with abundant distinct burrows, including Chondrites. The core was recovered with only slight disturbance.
{		\	<u>8 -</u> - -		6			 		5Y 4/1	
***************************************		\$	9		7		}			10Y 4/1	
0 1	5 10	0 25 5	1 <u>0</u>		СС			<u>></u>	М	5Y 3/2	

			SIT	E 1018		LE	D COR				CORED 104.3 - 110.1 mbsf
GRAPE density (g/cm ³)	Reflectance (%) (450-500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
3		<	=	Ş				>		10Y 4/1	CLAY WITH SILT AND DIATOMS
			1_	V V V V V	1		>>			10Y 5/1	Major Lithology: This core consists of greenish gray (5GY 5/1) to light grayish olive (10Y 4/1 to 10Y 5/1) CLAY WITH SILT AND DIATOMS. Sponges are present throughout.
			2		2	Quaternary	% % % % %			10Y 4/1 10Y 5/1	General Description: The core is homogeneous to moderately bioturbated with distinct burrows, including Chondrites.
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4 -		3	Quate	}} }} }}			10Y 4/1	
}	}	~	-				33 3			5GY 5/1	
			5	v v	4		<pre>33 6 33 6 33 6</pre>	W		10Y 4/1 5GY 5/1	
4 1.6	8 10 1	10 15 2	6 <u> </u>	<b>Y</b>	CC				М	3/1	

			SI	ΓΕ 1018		)LE	D	COR				CORED 110.1 - 119.7 mbs
GRAPE density (g/cm ³ )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Str	ucture	Disturb	Sample	Color	Description
mmmm			1		1			» » » » » » » » » » » » » » » » » » »			10Y 5/1	DIATOM CLAY WITH SILT and CLA WITH DIATOMS AND SILT  Major Lithologies: This core consists of light grayish olive to grayish olive (10Y 4/2 to 10Y 5/1) DIATOM CLAY WITH SILT and olive gray to olive (5Y 5/2 to 5Y 4/3) CLAY WITH DIATOMS AND SILT. Color changes are subtle and
			3 -		3	Quaternary		% % % % % % % % % % % % % % % % % % %			5Y 5/2 To	gradual.  Minor Lithologies: Section 3, 80-82 cm, contains a thin layer of QUARTZ SAND WITH GLAUCONITE.  General Description: The sediment is slightly bioturbated. Chondrites are common.
			5		5			% % % % % % % % % % % % % % % % % % %			5Y 4/3	
	}		8_	XX)	6 CC			\$ } } }		М	10Y 4/2	

			SIT	E 1018		LE	D COR				CORED 119.7 - 129.3 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		}	1_		1		% 9 % 6 % 6 % 7			5Y 4/2	DIATOM CLAY WITH SILT and CLAY WITH DIATOMS AND SILT  Major Lithologies: This core consists of grayish olive (5Y 4/2) DIATOM CLAY WITH SILT alternating with light grayish olive (10Y 5/1) CLAY WITH DIATOMS
			2		2		% % % % % % % % % % % % % % % % % % %			10Y 5/1	AND SILT. Color changes are gradational.  General Description: The sediment is slightly to moderately bioturbated. Chondrites and Sagarites are common.
		}	4_		3	ary	% % % % % % %			5Y	
		}	5	7	4	Quaternary		1		4/2 10Y 5/1	
			6 6 7 -		5		%%%% %%% % % % % % % % % % % % % % % %			5Y 4/2	
.4 1.6	5 10	0 20 4	9 -		6 7 CC				M	10Y 5/1	

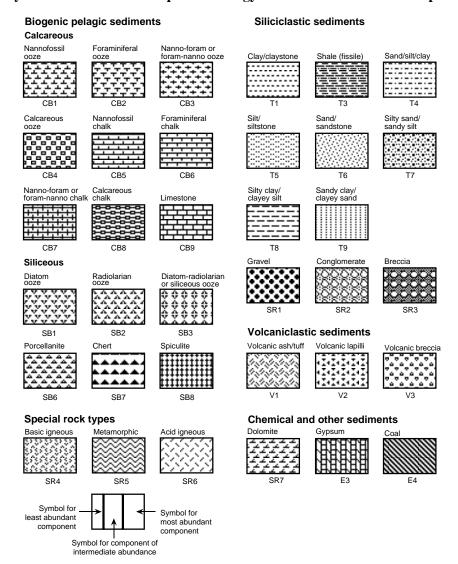
			SIT	E 1018		)LE	D COR	Ε			CORED 129.3 - 138.9 mbsf
GRAPE density (g/cm ³ )	Reflectance (%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	}	1	-				}			5Y 5/2	DIATOM CLAY MIXED SEDIMENT and CLAY WITH SILT
		{	1		1		» » » » » »			5Y 4/3	Major Lithologies: This core consists of light grayish olive to pale olive (10Y 5/2 to 10Y 6/1) CLAY WITH SILT gradually alternating with olive gray to olive (5Y 5/2 to 5Y 4/3) DIATOM CLAY MIXED SEDIMENT.
			3_	**** **** 	2		}} }}			10Y 5/2	General Description: The sediment in slightly to moderately bioturbated. Chondrites are abundant.
		}	4		3	Quaternary	6 3 3 6			5Y 5/3	
}	}	}	-		4	Quat	>> >> >> >> >> >>			10Y 5/2	
			6 -	Y-V-0	5		%			5Y 4/2	
				**************************************			} } }			10Y 6/1	
\		\$	8	) 	6					5Y 4/3	
}			9_	**************************************	7		33 33 33 33			10Y 4/2	
	ا ا	,		. v.vl	cc		} } }		М	5Y 4/3	
1 1.5	5 10 (	0 20 4	10								

GRAPE density	Reflectance										CORED 138.9 - 148.5 mbsf
(g/cm ³ )	(%) (450–500 nm)	Magnetic suscept. (10 ⁻⁶ SI)	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
			1		1		» » » » » »	M		10Y 5/2	NANNOFOSSIL CLAY WITH SILT and DIATOM CLAY WITH SILT Major Lithologies: This core consists of light grayish olive to pale olive (10Y 5/2 to 10Y 6/1) NANNOFOSSIL CLAY WITH SILT
	}		2 -		2		33			5Y 5/3 10Y 5/2	and olive (5Y 4/3 to 5Y 5/3) DIATOM CLAY WITH SILT. Color changes are gradational.  General Description: The sediment is slightly to moderately bioturbated. Chondrites are common.
\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</b>		4		3					5Y 4/3	
}	}	James James	5_		4	Quaternary	) ) ) )			5Y 5/3	
	}	~ M	6				> > > > > >			10Y 5/2	
	<b>\{</b>		7		5					5Y 4/3	
	}	WW-WmW	8		6		**************************************			10Y 6/1	
1 1.5	5 10 1	10 15 2	9 -		7 CC		}} }		M	5Y 4/3	

SI	TE 1018	HC	LE	D COR	E			CORED 148.5 - 158.1 mbsf
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1	**************************************	1		» 9 » » 9 » » 9			5Y 4/3	CLAY WITH SILT and CLAY DIATOM MIXED SEDIMENT  Major Lithologies: This core consists of grayish olive to light grayish olive (10Y 4/2 to 10Y 5/2) CLAY WITH SILT alternating with
2		2					10Y 5/2	olive to olive gray (5Y 4/3 to 5Y 5/2) CLAY DIATOM MIXED SEDIMENT. Color changes are gradual.  General Description: The sediment is moderately bioturbated. Sagarites are common throughout Sections 1 and 2.
-	vvv vvd	Г		\$ }}	li		5Y 4/3	Tilloughout Sections 1 and 2.
4_	2.7	3		}} }} }} >>			10Y 5/2	
	VV		Quaternary	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;			5Y 4/2	
5_	.vj	4	Quai	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;			10Y 4/2	
6_	**************************************			}} }}			5Y 4/3	
				}} }} }			10Y 5/2	
7	**************************************	5		0 ************************************			5Y 4/3	
8_	**************************************	6		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;				
9_		7		}} }} }} }}			5Y 5/3	
L	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CC		33	<u>Li</u>	М		

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		% % % % % % % % % % % % % % % % % % %			10Y 6/1	DIATOM CLAY MIXED SEDIMENT WITH SILT and DIATOM OOZE WITH CLAY  Major Lithologies: This core consists of gradual alternations between pale olive to light grayish olive (10Y 6/1 to 10Y 5/1) DIATOM CLAY MIXED SEDIMENT
2		2		3 6 3 9			10Y 4/1	WITH SILT and grayish olive to light grayish olive (10Y 4/1 to 10Y 5/2) DIATOM OOZE WITH CLAY. Color transistions are gradual and mottled
3				9			10Y 5/1	between lithologies.  General Description: The sediment is slightly bioturbated.
4		3	Quaternary					Chondrites are common.
5			O				10Y 5/2	
6		4		9			10Y 6/1	
7		5		3 9			10Y	
-		6 CC		} } }		М	4/2	

## Key to symbols used in the "Graphic Lithology" column on the core description sheets.



## Key to symbols used in the "Structures" column on the core description sheets.

Drilling disturbance symbols			Sec	Sedimentary structures cont.			
	_	Soft sediments					
	1	Slightly disturbed	↑F	Fining-upward sequence	<b>♦</b>	Isolated pebbles/cobbles	
	1	Moderately disturbed	<b>↑</b>	Interval over which primary sedimentary structure occur	•	Isolated mud clasts	
	į	Moderately disturbed	_	Planar laminae	_^_	Slump blocks or slump folds	
	$\frac{2}{5}$	Highly disturbed	$\geq$	Wedge-planar laminae/beds	2	Contorted slump	
	0		•••	Graded bedding (normal)	X	Probable compaction	
	0	Soupy	•••	Graded bedding (reversed)	<b> </b>	fracture	
		Hard sediments		Sharp contact		Microfault (normal)	
	$\leq$	Slightly fractured		Gradational contact	7/	Microfault (thrust)	
			w	Scoured, sharp contact	_	Managerile	
	王	Moderately fractured	•••	Scoured contact with graded bed	<del>/</del>	Macrofault	
	$\geq$	Highly fragmented		Thick color bands (sharp contact)	>>	Fracture	
	×	Drilling breccia	****	Thick color bands (gradational contact)	×	Totally fractured	
	$\widehat{\times}$	Drilling breccia		Medium color bands (sharp contact)	X	Vein structures	
ı	Sec	limentary structures	3000000 3000000	Medium color bands (gradational contact)	₹3	Color mottles	
	}	Burrows, rare (<30% surface area)	$\equiv$	Thin color bands (sharp contact)	<u>-</u>	Dolomite nodule/concretion	
	33	Burrows, common (30%–60% surface area)	******	Thin color bands (gradational contact)	D	Disseminated dolomite	
	333	Burrows, abundant (>60% surface area)		Laminations (mm scale)	P	Pyrite nodule/concretion	
	>>>	Discrete Zoophycos trace fossil		Individual thick color band	Р	Disseminated pyrite	
	6	Discrete Chondrites trace fossil		Individual medium color band Individual thin color band	G	Glauconite	
	9	Sagarites sponge	_	Individual lamination	$  oldsymbol{ } oldsymbol{ }  $	Concretions/nodules	
	3	Gastropods	<b>***</b>	Wavy lamination	(00)	Barite nodule/concretion	
	Ī	Other bivalves		Cross laminae	(Ba)	Bante nodule/concletion	
		Chall fromments	<u>7</u> Z	Cross stratification	Ва	Disseminated barite	
	8	Shell fragments	108U 77	Cross bedding	(Ca)	Calcite nodule/concretion	
	#	Wood framents	ا تھار	Convoluted/contorted bedding Flaser bedding	(c)	Carbonate nodule/concretion	
	$\alpha$	Fish debris	Λ	Graded interval, normal		235118151151810/001101011011	
١				Veins	(Ch)	Chert nodule/concretion	
			8	Water escape structure	A●	Ash/pumice pods	
			7/	Scour	-A	Ashlayer	
				I		l	