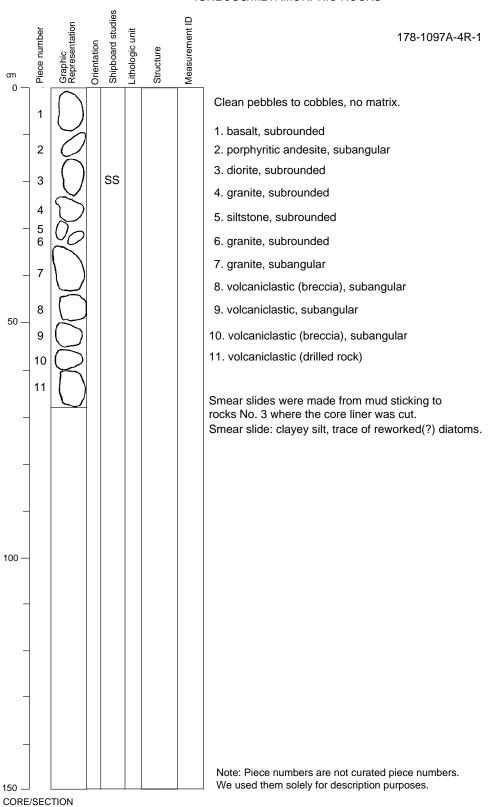
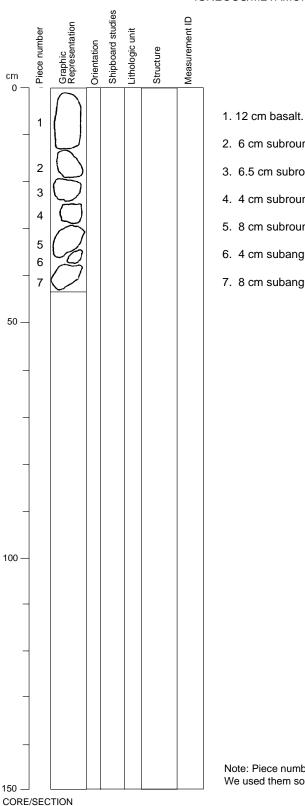
	Site 1097	Hol	e A C	Core1R Cored 0.0-7.5 mbsf
METERS SECTION GRAPHIC LITH. BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
	_	•	' <b>∼</b> ss	Volcaniclastic pebble, green, probably andesite; 5 cm diameter, subrounded. Small quantity of silty mud adhering to pebble.

1097A-2R ENTIRE CORE GIVEN TO PALEONTOLOGISTS

		Si	te 1097 H	lole	A Cor	re 3R Cored 15.4-25.0 mbsf
METERS SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
<b>T</b>	<b>&gt;&gt;&gt;&gt;</b>	•	I		I	Four pebbles: 1. slate/mudstone, black, fine-grained, laminated; 4 cm, subangular 2. volcaniclastic, green, 5 cm, subangular 3. volcaniclastic, green, 6 cm, subrounded 4. granite, light gray, fine-grained with dark gray xenoliths up to 1 cm across, 7 cm, subrounded



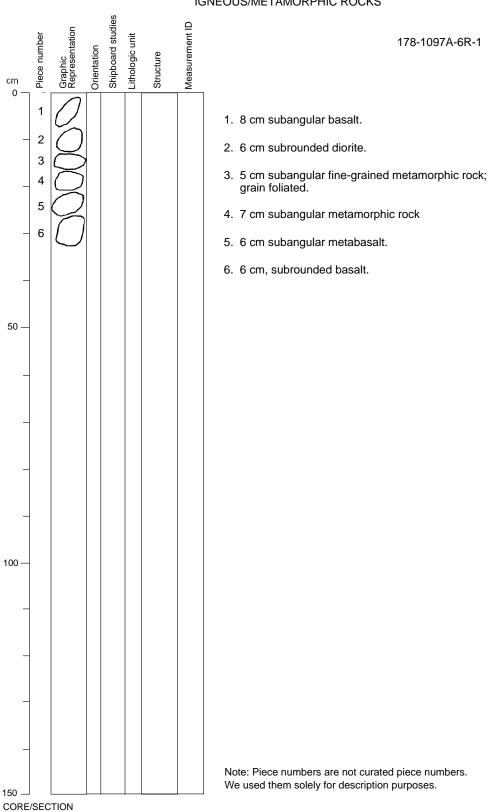
#### VISUAL CORE DESCRIPTION IGNEOUS/METAMORPHIC ROCKS



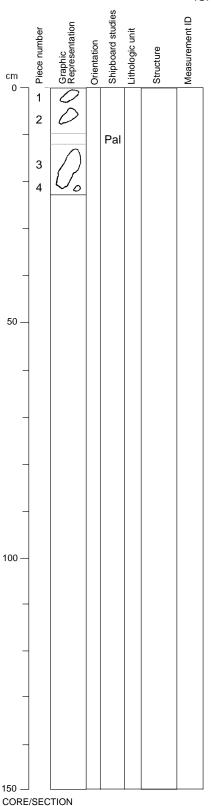
178-1097A-5R-1

- 2. 6 cm subrounded andesite
- 3. 6.5 cm subrounded andesite
- 4. 4 cm subrounded diorite
- 5. 8 cm subrounded andesite
- 6. 4 cm subangular basalt
- 7. 8 cm subangular metamorphic rock.

Note: Piece numbers are not curated piece numbers. We used them solely for description purposes.



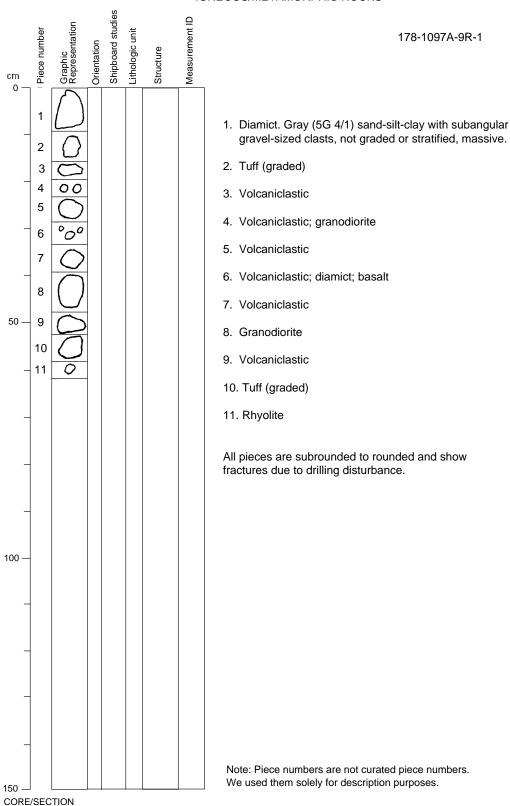
# VISUAL CORE DESCRIPTION IGNEOUS/METAMORPHIC ROCKS



178-1097A-8R-CC

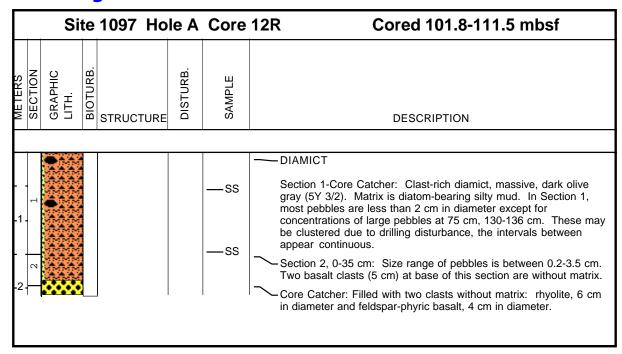
- 1. 6 cm long and 4 cm wide subangular to subrounded metamorphic rock.
- 6 cm long and 3.5 cm wide subangular, fine-grained siltstone, quartz cemented. Appears to be dense, some of original laminae can be seen. Possibly low grade(?) metamorphic.
- 3. 10 cm long, 5 cm wide. Same as 2.
- 4. Subangular, 1.5 diameter. Rock type unknown.

Note: Piece numbers are not curated piece numbers. We used them solely for description purposes.

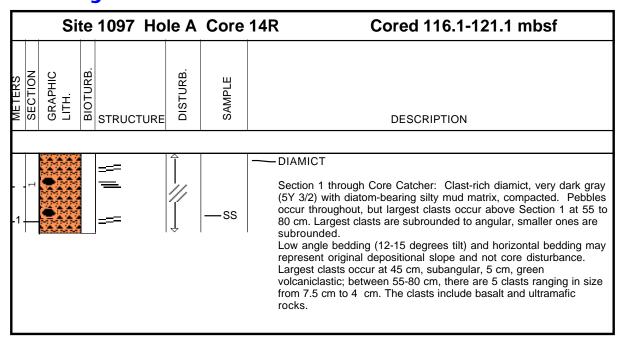


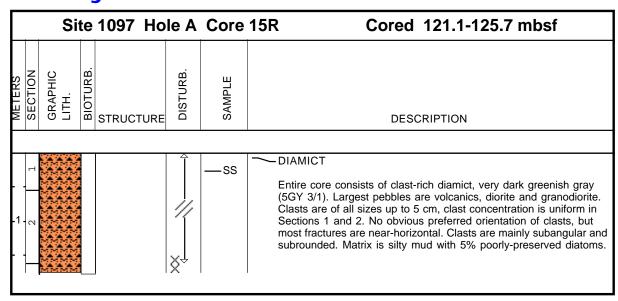
	Si	te 1097 H	ole A	A Cor	e 10R Cored 82.4-92.1 mbsf
METERS SECTION GRAPHIC	LITH.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
1		munumun munumun	1/h	— \$\$ ~ \$\$ ~ \$\$	Section 1-Core Catcher: Clast-rich diamict, very dark gray (5Y 3/1) with diatom-bearing silty mud matrix, compacted. Pebbles occur throughout, but largest clasts occur above 45 cm; largest clasts are angular, smaller ones are subrounded; from 38-41, and 81-82 cm there are wispy silt laminae inclined about 6 degrees to horizontal; the silt lamina at 38 cm contains 2% Mn micronodules. Largest clasts occur at: 14 cm, subangular, 3 cm, green volcaniclastic; 27 cm, angular, 2 cm, red volcaniclastic; 31 cm, angular, 2 cm, basalt; 43 cm, angular, 2 cm, basalt; 45 cm angular, 3 cm, mafic plutonic. Section 1, between 66-72 cm is too disturbed to describe.

	,	Sit	e 1097 H	lole <i>i</i>	A Cor	e 11R Core 92.1-101.8 mbsf
METERS	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
		7. F.		<b>1</b>	—ss	DIAMICT  Section 1 through the Core Catcher: Abundant clasts, volcanic and ultramafic with some fragments of clast-rich diamict, very dark gray (5Y 3/2) compacted, matrix is diatom-bearing silty mud. Pebbles occur throughout, washed and concentrated by drilling. Largest clasts are subrounded to angular, smaller ones are subrounded.

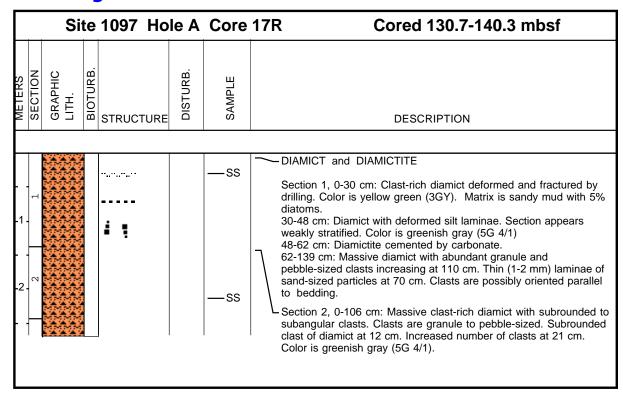


		Si	te	1097 Ho	le A	Core	13R Cored 111.5-116.1 mbsf
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
-1	1				Î	—ss	Section 1-Core Catcher: Clast-rich massive diamict, matrix is diatom-bearing silty mud, very dark gray (5Y 3/1). Diamict is compact and fractured by drilling. Section 1, 19 cm, subangular granite (2.3 cm in diameter); 37 cm, subangular volcanic rock (2.5 cm in diameter); 41 cm: subangular volcanic (1.5 cm in diameter). Drilled rock occurs between 63-72 cm.



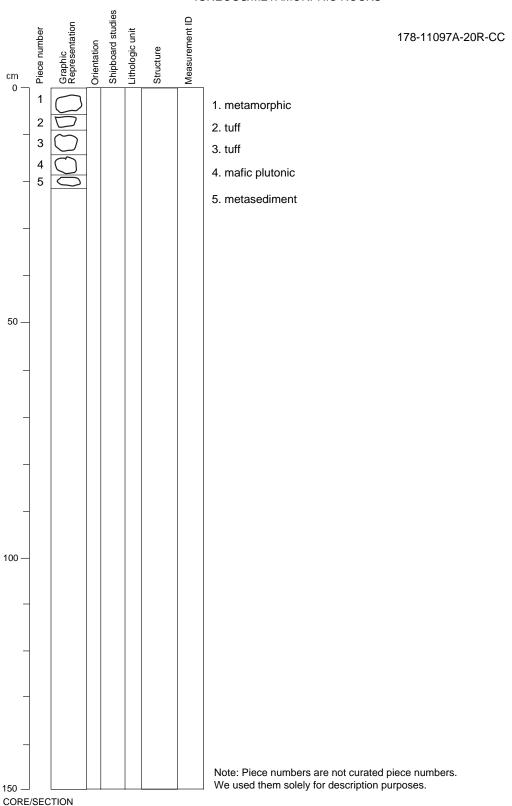


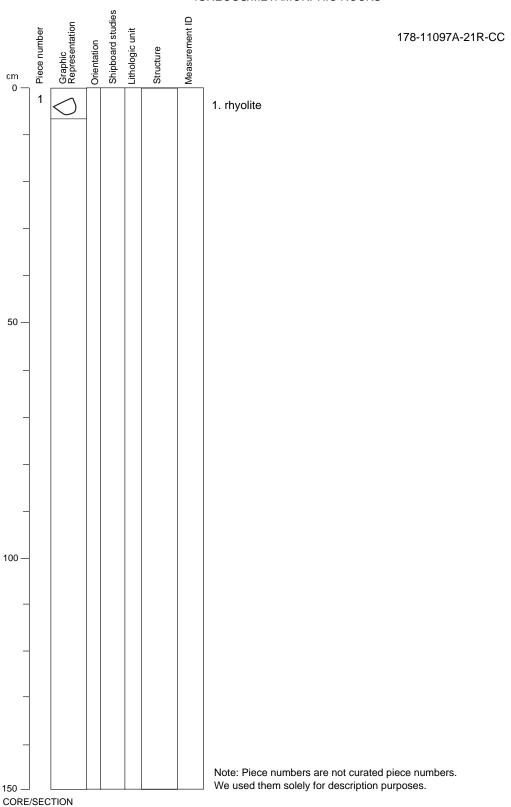
	Si	te	1097	Но	le A	Core	16R Cored 125.7-130.7 mbsf
METERS SECTION	GRAPHIC LITH.	BIOTURB.	STRUC	TURE	DISTURB.	SAMPLE	DESCRIPTION
- 1						-ss -ss -ss -ss	Section 1, 0-62 cm: Dark olive gray (5Y 3/2) clast-rich diamict with thin laminae up to 2 mm thick at 16 cm. Core is fractured along these horizontal bedding planes from 0-29 and 41-60 cm. Diamict matrix is diatom-bearing silty mud. Largest pebbles are 1.5 cm, most are only a few mm. Dominant clast type is fine-grained and massive. Well rounded quartzite pebble, 1 cm, at 17 cm. Silt lamina at 16 cm has less sand, and a few more diatoms than surrounding sediment.

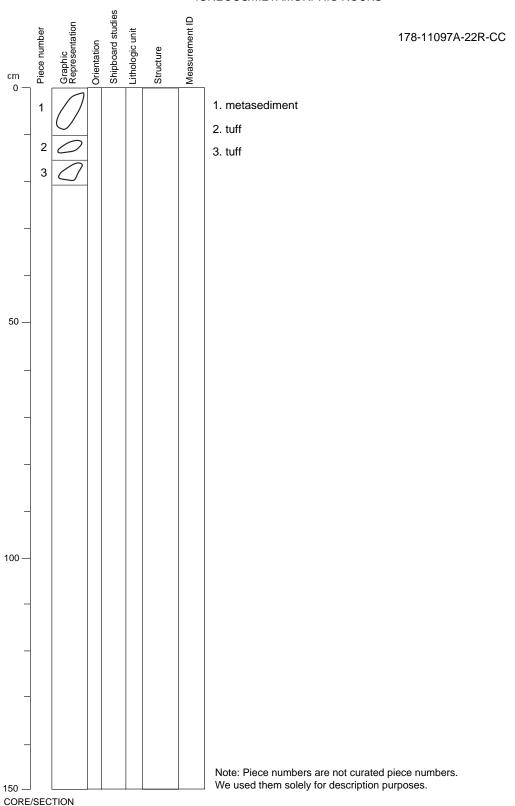


Site	1097 Ho	le A	Core	18R Cored 140.3-149.9 mbsf
METERS SECTION GRAPHIC LITH. BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
- 1			—SS	DIAMICT  Section 1, 0-81 cm: Massive, matrix supported diamict. Matrix is clayey mud with 2% coccoliths. Clasts are less than 1 cm in diameter with exceptions of two clasts; one clast at 38 cm, 2 cm in diameter, and one clast at 60 cm 3 cm in diameter. Wide variation in clast shape.

	Si	te	1097 Ho	le A	Core	19R Cored 149.9-159.5 mbsf
METERS SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
-1-				Î		DIAMICT  Section 1 and Core Catcher: Massive matrix-supported diamict with abundant clasts. Clasts are subrounded to subangular and are granule to pebble-sized. Color is greenish gray (5G 4/1) throughout. Clasts appear to be subparallel to drilling fractures throughout.  Section 1, 46-47 cm: Clast of carbonate-cemented diamictite.

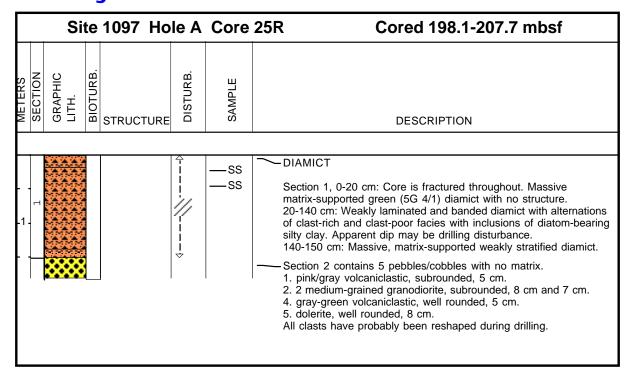


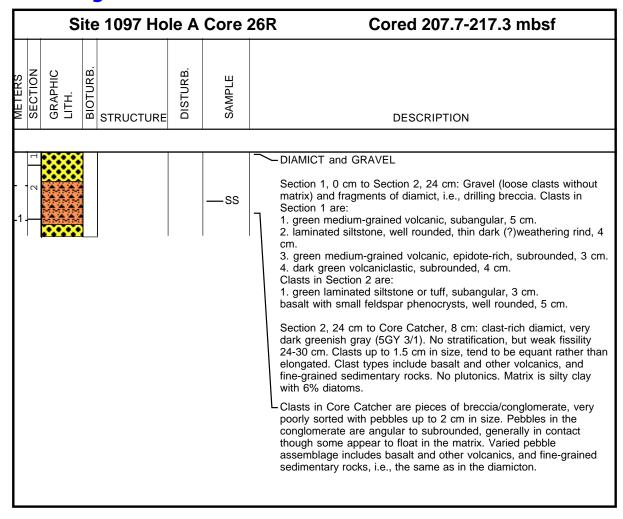


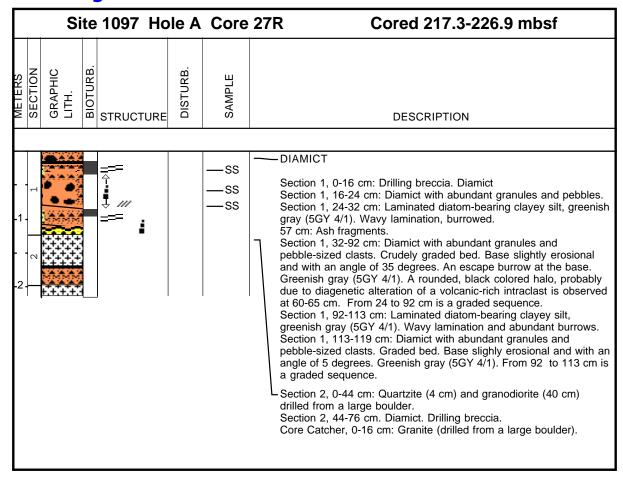


Si	te 1097	Hole A	Core	23R Cored 178.9-188.5 mbsf
SECTION GRAPHIC LITH.	STRUC.	DISTURB.	SAMPLE	DESCRIPTION
				Section 1, 0-40 cm: Diamict with abundant granule and pebble-sized clasts. Fractured and deformed throughout. Weakly stratified with deformed beds of silt and sand particles. Greenish gray (5GY 4/1).  40-53 cm: Diamict with large clasts of volcaniclastics. Diamict shows weak coarsening upwards sequence at 46 cm. Clasts show no preferred orientation.  54-57 cm: Clast of igneous volcaniclastic.  57-62 cm: Clast of mafic plutonic.  63-67 cm: Clast of tuff(?).  Section 2: 1: Metamorphosed volcaniclastic, 2: Diorite, 3: Tuff, 4: Metasedimentary clast

		S	ite	1097 Ho	le A	Core	24R Cored 188.5-198.1 mbsf
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
		ÖÖÖ	ō				Section 1, Piece 1: Basalt. Piece 2: Diamict, completely deformed by drilling. Piece 3: Mafic plutonic. Piece 4: Mafic plutonic. Piece 5: Mafic plutonic (diorite?).







		Sit	te	1097 Ho	le A	Core	28R Cored 226.9-236.6 mbsf
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
-1-	T				Î	—ss	——DIAMICT  Section 1- Core Catcher: Clast-rich massive diamict, compacted, very dark gray (5Y 3/1) with a matrix of silty mud containing 1% diatoms. Clasts (up to 1.5 cm in diameter) are scattered throughout. Lithologies are volcanic and plutonic igneous rocks. In Section 1, from 0-7 cm there is a volcaniclastic (green) pebble, from 100 to 110 cm there is a porphyritic rhyolite pebble.

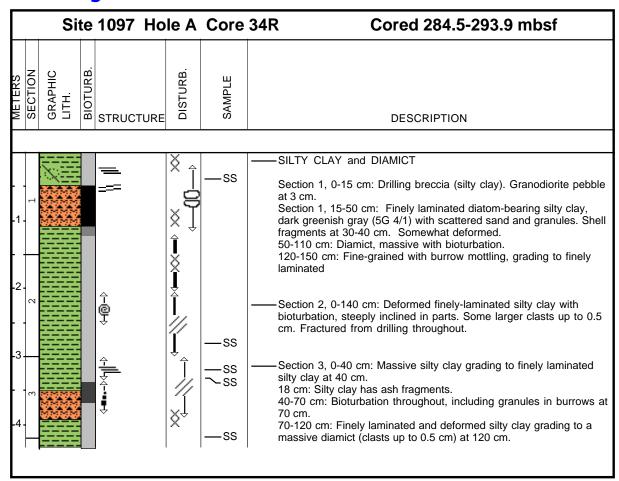
		S	ite	1097 Ho	le A	Core	29R Cored 236.6-246.2 mbsf
METERS	SECTION	GRAPHIC LITH.	BIOTURB	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
					ı		
	17		<u> </u>	J	l	I	Four pebbles, no matrix. 1. granodiorite, well rounded, 3 cm. 2, 3. feldspar-phyric andesite, subangular, 4 cm. 4. dark green siltstone, laminated and burrowed, subrounded, 5 cm.

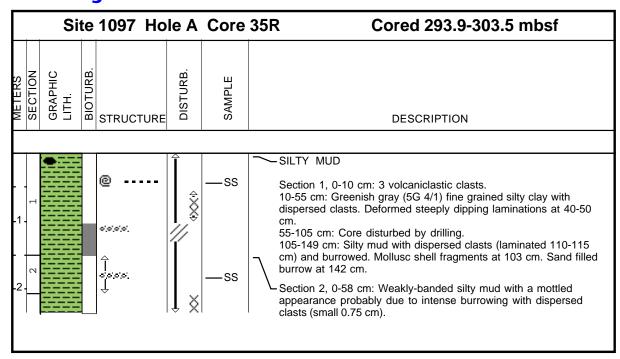
		5	Site	e 1	1097 Ho	le A	Core	30R Cored 246.2-255.7 mbsf
METERS	SECTION	GRAPHIC		BIOLURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
	П	****	<b>∷</b>					CRAVEL  Loose pebbles with no matrix.  1. green volcanic, angular, 4 cm.  2. gray volcanic, subangular, 6 cm.  3. fine-grained schist, subrounded, 5 cm.  4, 5. gray volcaniclastic, subrounded, 4 cm.

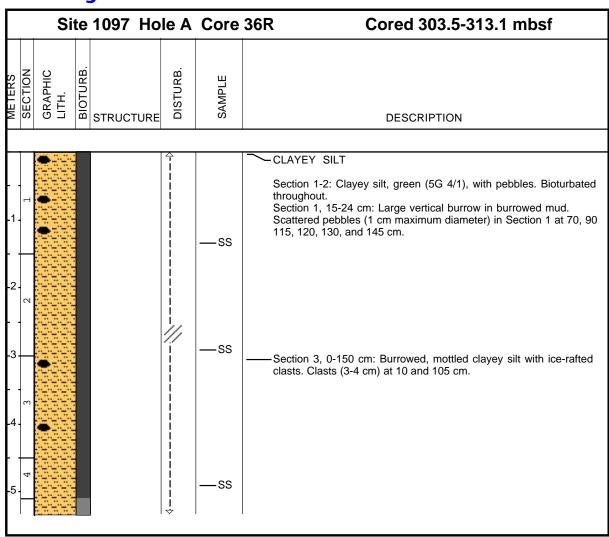
	Si	te	1097	Но	le A	Core	31R Cored 255.7-265.3 mbsf
METERS SECTION	GRAPHIC LITH.	BIOTURB.	STRUC	TURE	DISTURB.	SAMPLE	DESCRIPTION
		•	1			I	GRAVEL
		•1				l	Loose pebbles with no matrix.  1. feldspar-phyric basalt, subrounded, 5 cm.  2, 3. basalt, subrounded, 3 cm.  4. green volcanic, fractured/brecciated, subrounded, 4.5 cm.  5. coarse-grained granite, subangular, 4.5 cm.  6. basalt with abundant feldspar phenocrysts, subangular, 7 cm.

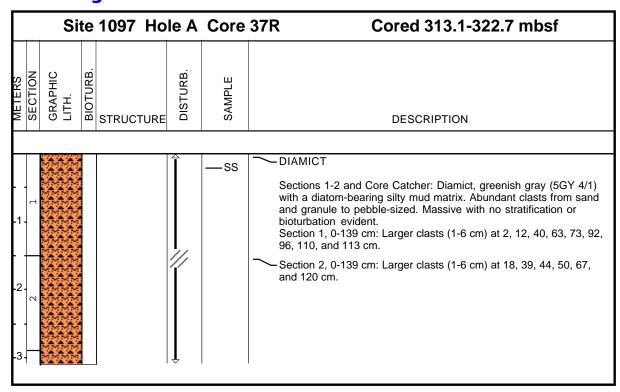
Site 10	097 Ho	le A	Core	32R Cored 265.3-274.9 mbsf
METERS SECTION GRAPHIC LITH. BIOTURB.	RUCTURE	DISTURB.	SAMPLE	DESCRIPTION
1		}	₹ss ₹ss ss	Core Catcher, 4-20 cm: Clast-rich diamict, highly disturbed by drilling, very dark gray (5Y 3/1), matrix is silty clay with 5% diatoms. Diamict contains 2 subrounded basalt pebbles, 3 cm in diameter, and 1 angular basalt pebble, 2 cm in diameter. 19-23 cm, volcaniclastic rock; 25-32 cm, volcaniclastic breccia.

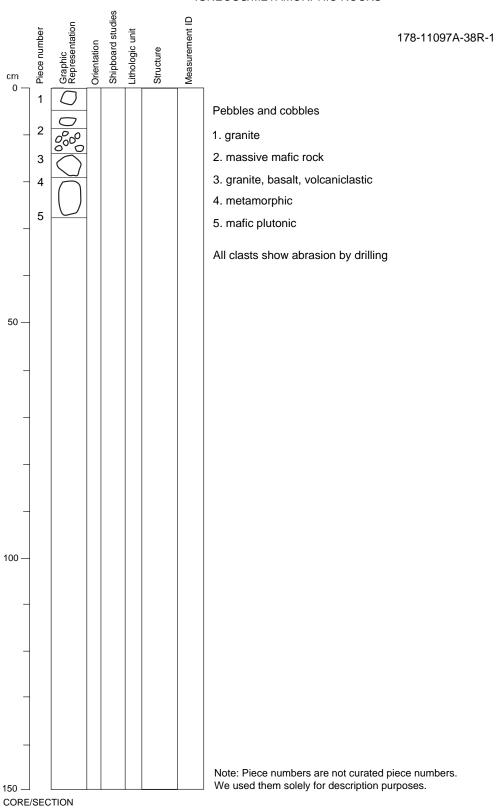
		Sit	te	1097 Hol	e A	Core	33R Cored 274.9-284.5 mbsf
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	DISTURB.	SAMPLE	DESCRIPTION
	1				<b>△- ~ ~ ~ ~ ~ ~ ~ ~ ~ ~</b>	—ss	Section 1-Core Catcher: Diamict, disturbed by drilling (void spaces occur next to the core liner), very dark gray (5Y 3/1). Diamict appears massive and clast-rich with basalt pebbles from granules to 1 cm in diameter. Matrix is silty mud with 3% diatoms. 1 large pebble occurs at the top of the core and 3 granite clasts occur in the core catcher.

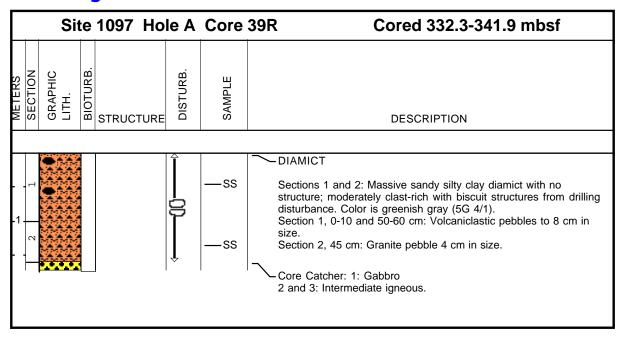


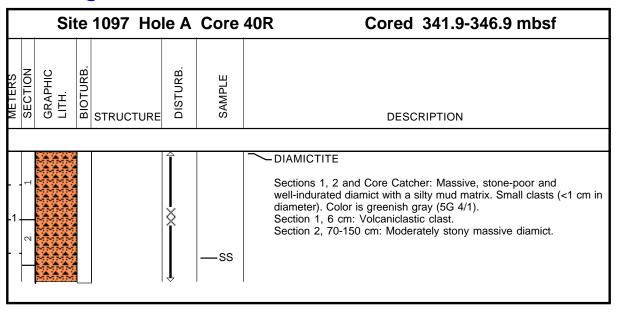




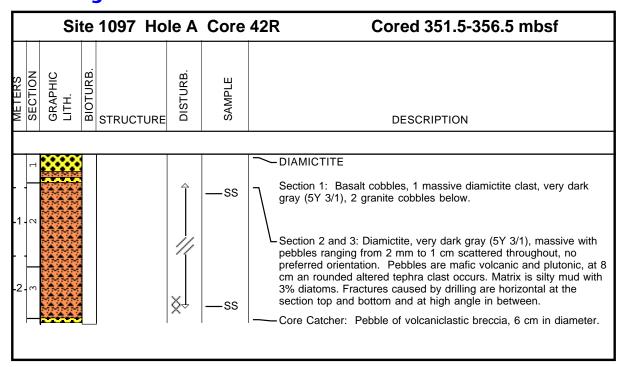


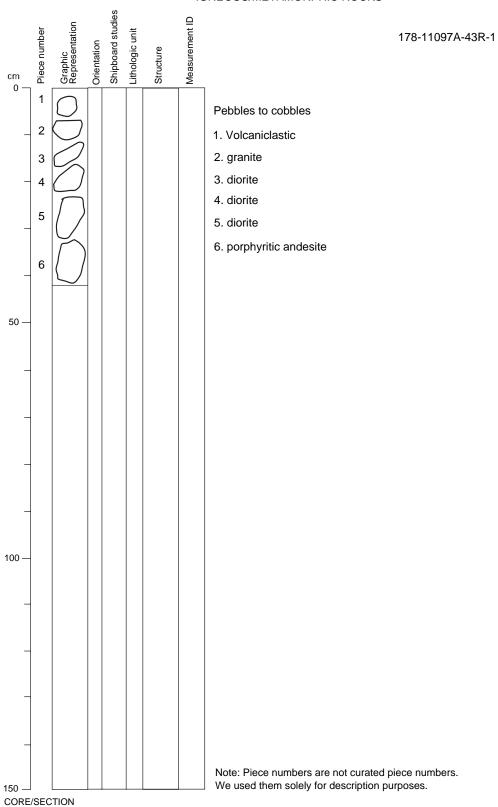


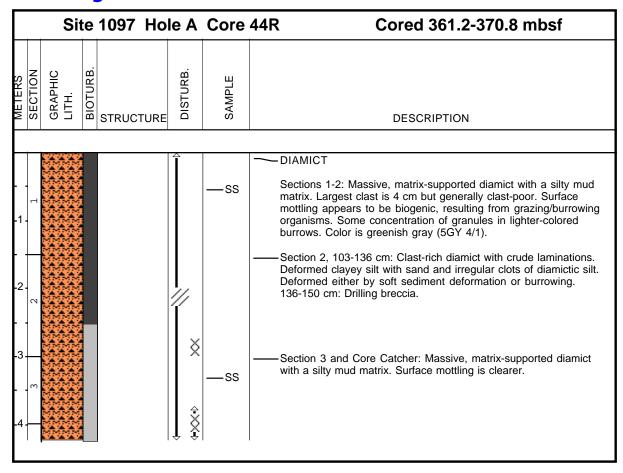


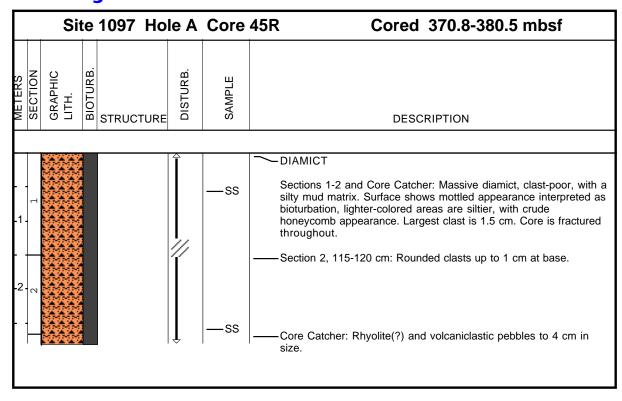


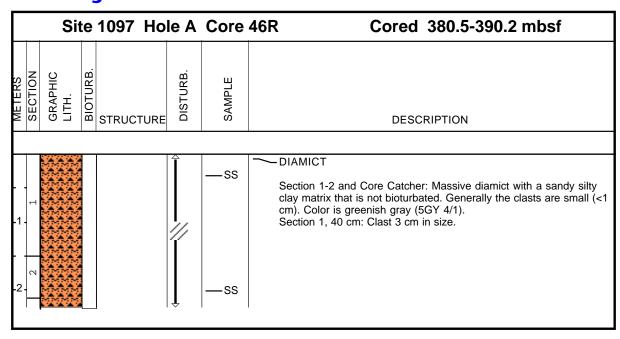
	S	ite	1097	Но	le A	Core	41R Cored 346.9-351.5 mbsf
METERS SECTION	GRAPHIC LITH.	BIOTITIER	STRUC	TURE	DISTURB.	SAMPLE	DESCRIPTION
			•				
	$\bowtie$	X			X		GRAVEL
							<ul> <li>0-11 cm: Drilling breccia of diamicton and pebbles, most pebbles are volcaniclastics.</li> <li>11-32 cm, three pebbles:</li> <li>1. medium-grained granodiorite, subangular, 5 cm.</li> <li>2. pale green rhyolitic tuff, very compact, angular, 6 cm.</li> <li>3. fine-grained granodiorite, more mafic than 1., subrounded, 8 cm.</li> </ul>

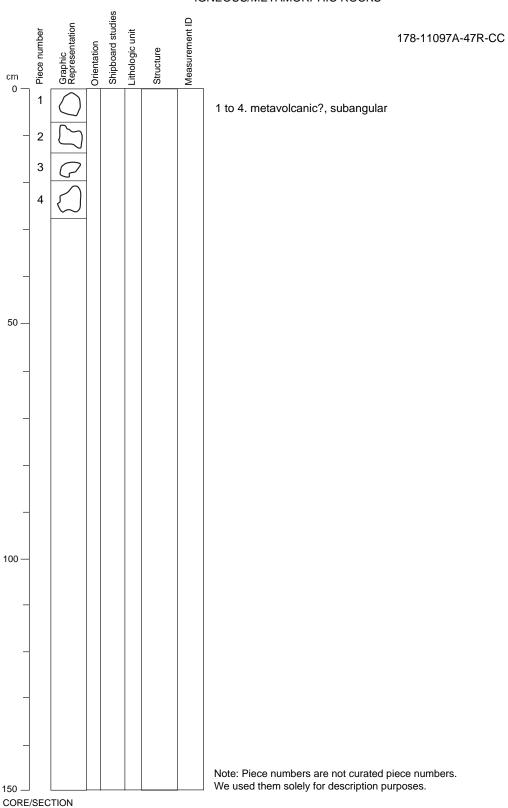


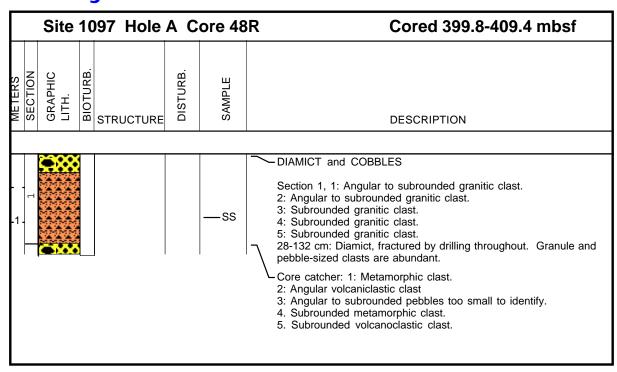


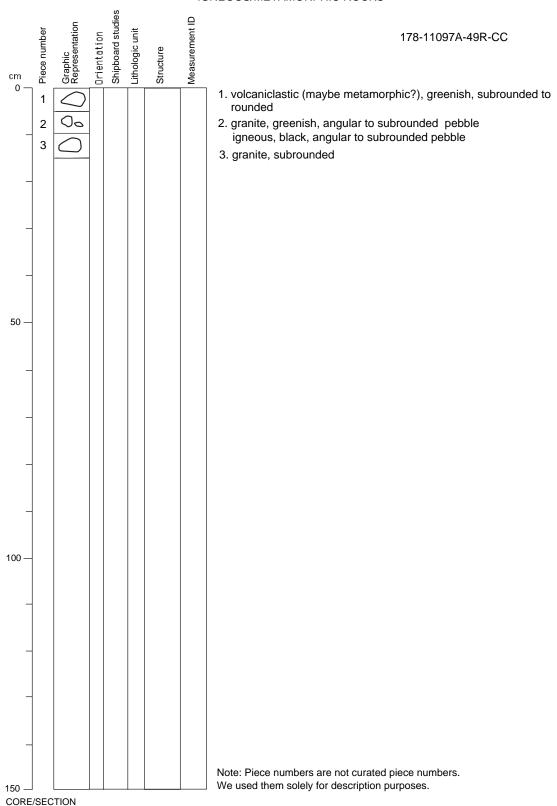


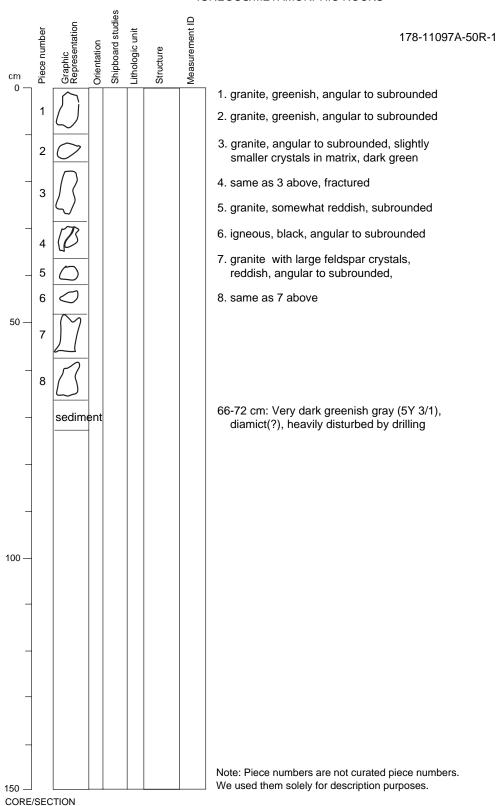


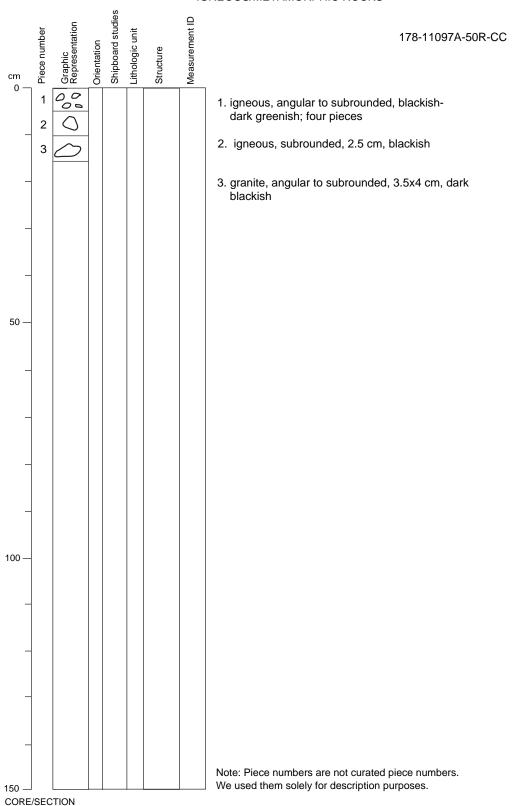


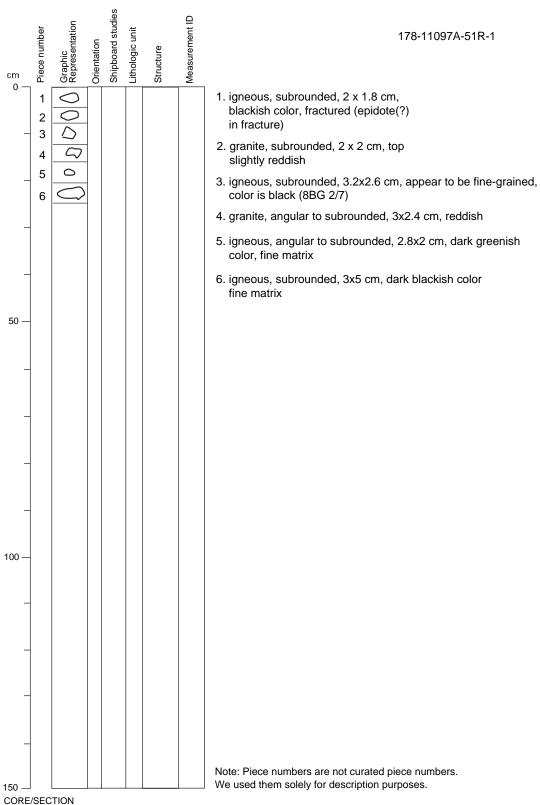












Note: 0.5 ed	egual	to tr.					1		Size			Composition - Siliciclastic													Coi	mposit	Bic	geni	С					i 1			
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		ڃ	<u>a</u>	5	5	<u>a</u>					{sa	1 5	130	par	(to		E	프	.은	를	nat	ω <sub>0</sub>	io l		len	clay	ojo	듩	SE	ar	喜	fla	Эe	de	ŧ	e B	i g
Site Hole	Core	Type	Interval	Depth	Depth	Described by	Лаjor	Minor	Sand	Sii	E N	Clay	Quart	Feldspar	Clay	∥ca	Slauconite	Rock Fragments	olcanic Glass	Acc.	Carbonate	Opaque	ramboids/micronodules	Other	<b>Terrigenous</b>	Total	Vannofossils	oraminifers	Diatoms	Radiolarians	Coccolith	Silicoflagellates	Sponge Spicules	Shell debris	ınidentified/other	Total Biogenic	Sediment or Rock Name
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	10	_		82.61	$\vdash$	eac	_1_		15	_		0		10.0		.0	_			_		1.0		2.0	88	88		_	10.0				1.0			11	silty mud
		R 1	-	82.78	$\vdash$	eac		2	2		-	0		10.0			-	_		_				2.0	92	98			2.0							2	silty mud
		R 1		82.96	$\sqcup$	eac	1	$\vdash$	15			5		10.0		_		_				1.0	_	1.0	92	94			5.0				1.0			6	Diatom-bearing silty mud
178 1097 A 1				92.22	$\sqcup$	eac	1		20		_	5		8.0		_	_	_		_			_	6.0	84	88		_	10.0				2.0			12	silt
178 1097 A 1				102.34	$\sqcup$	сјр	1	$\Box$	10	_	_	0		10.0		4	_	0.0		3.0		2.0			55	8 0			20.0				0.5			20	silty mud
178 1097 A 1					$\sqcup$	сјр	1		20			0		5.0				6.0		3.0		1.0			55	85			15.0				0.5			15	Diatom-bearing silty mud
		R 1		111.80	$\perp$	сјр	1		10			0		7.0				0.0		3.0		1.0			50	90			10.0				0.5			10	Diatom-bearing silty mud
		R 1		117.00	$\perp$	am	1		30	_	_	0		_	11.0 3	_	_	0.0						0.5	83	94		_	5.0				1.0			6	Diatom-bearing silty mud
		R 2		121.89	ш	сјр	1		20			0		10.0		.5		1.0		3.0		1.0			75	95		_	5.0				0.5			5	Diatom-bearing silty mud
		R 1		125.86	ш	сјр		2	10		2	0		10.0		_		1.0		3.0		1.0			65	80		_	20.0				0.5			20	clayey silt
		R 1		125.99	ш	wlf	1		30		_	0			18.0 2	.0		5.0				3.0		10.0	75	93			5.0				2.0			7	sandy silt
		R 1		126.00	Ш	сјр	1		25			0		10.0				1.0		3.0		1.0			70	85		_	15.0				0.5			15	silty mud
178 1097 A 1				126.41	ш	wlf	1		15		_	5		3.0		_	_	5.0			2.0		_	10.0	78	97		_	1.0				2.0			3	Diatom-bearing silty mud
178 1097 A 1				140.85	$\vdash$	wlf	1		30		_	0		5.0				0.0			3.0			15.0	76	93			4.0		1.0		2.0			7	sandy mud
178 1097 A 1				140.85	ш	wlf		2	20			0		4.0				0.0			1.0			10.0	51	96			1.0		2.0		1.0			4	silty mud
178 1097 A 2				198.31	ш	wlf		2	4		_	0			22.0 2			9.0		2.0		5.0		12.0	55	77			15.0				8.0			23	silty mud
178 1097 A 2				198.51	$\vdash$	wlf		2	10	_	_	0		$\overline{}$	22.0 4	_	2:	3.0		2.0		4.0	-	15.0	66	88		_	7.0				4.0			12	silty mud
178 1097 A 2				207.72	ш	œ	1		3			7			71.0 2	.0								3.0	19	90			6.0				4.0			10	Diatom-bearing silty mud
178 1097 A 2				217.55	ш	сјр		2	5		_	0		5.0			1:	2.0		2.0		0.5			39	74			25.0				1.0			26	silty mud
178 1097 A 2	-	$\overline{}$	-	217.87	$\vdash$	сјр		2	70	_	_	0		2.0	_			_	78.0			5.0			90	100										0	silty mud
	_	R 1	_	218.10	ш	сјр	1		10	70	2	0	40.	10.0	20.0		1	8.0		3.0		1.0			72	92		_	8.0				0.5			8	clayey mud
		R 1		218.32	ш	сјр		2																		89			10.0				1.0			11	silty mud
		R 1		227.45	ш	сјр	1		10		_	0		10.0		_	1:	5.0		3.0		0.5			68	98			1.0				1.0			2	clayey mud
178 1097 A 3					ш	œ	1		15	_		0			52.0 2							2.0	_	7.0	43	95		_	3.0				2.0			5	sandy mud
178 1097 A 3					$\vdash$	œ	1		45			0			50.0 2		$\perp$	_		_				8.0	44	94			3.0				3.0			6	Diatom-bearing silty clay
178 1097 A 3					$\vdash$	œ		2	1	_		9			67.0 2	.0	-	_		_			$\overline{}$	3.0	26	93		_	5.0				2.0			7	silty mud
178 1097 A 3				275.18	$\sqcup$	eac	1	_	20			0	80.	6.0	4.0	_	5	5.0						1.0	92	96			3.0				1.0			4	silty mud
178 1097 A 3				284.90	$\vdash$	сјр	1		2			8	-			_		$\dashv$		_						89		_	10.0				1.0			11	silty clay
$\overline{}$	-	R 2	-	287.35	$\vdash$	œ	1		5	_	_	55		-	57.0 3	.0	_	_		_			-	5.0	39	96		_	3.0				1.0			4	Diatom-bearing silty clay
		R 3		287.68	₩	cjp	1		1			0		5.0		-	_	2.0		5.0		2.0			59	8 4		_	15.0				1.0			16	sandy mud (ash)
		R 3		287.80	$\vdash$	wlf	1		0			5		5.0		.0		7.0				2.0		5.0	32	94			4.0				2.0			6	silty mud
		R 1		294.33	$\vdash$	wlf	1		25		_	5			25.0 2	.0	-	6.0		_	$\overline{}$	10.0	-	12.0	64	89		_	7.0				4.0			11	unknown
178 1097 A 3	-	-	_	295.72	₩	wlf	1		30	_		5		7.0	_	-	_	9.0		-		12.0	_	11.0	63	92		_	6.0				2.0			8	silty mud
178 1097 A 3					$\vdash$	wlf	1		15			0		6.0		+		8.0		2.0		2.0		15.0	56	89			8.0				3.0			11	silty clay
178 1097 A 3				308.39	$\vdash$	wlf	1	_	10		_	0		8.0		4		0.0		2.0		5.0		15.0	65	94			5.0				1.0			6	sandy mud
178 1097 A 3				313.30	₩	wlf	1		20		_	0		7.0	_	-	_	0.0		3.0		5.0		10.0	58	85			12.0				3.0			15	silty clay
178 1097 A 3	-	_		314.71	₩	wlf	1		25			5		_	30.0 3	.0		9.0				5.0	_	12.0	59	89		_	8.0		0.5		3.0			11	sandy silt
		R 1	-	332.94	$\vdash$	wlf	1		20			0		7.0		-	_	2.0		3.0		8.0		13.0	55	90			8.0				2.0			10	Diatom-bearing silty clay
		R 2		333.65	₩	wlf	1		20	45		5	13.			.0		1.0		2.0		5.0		10.0	61	9 1		_	7.0				2.0			9	silty clay
		R 2		343.46	$\vdash$	wlf	1		25		_	0	12.			+		1.0		5.0		8.0		12.0	64	9 1			7.0				2.0			9	Diatom-bearing clayey silt
		R 2		352.04	$\vdash$	eac	1		25		_	0		5.0		-	2	2.0		_		2.0			89	96		_	3.0				4.0			4	silty clay
178 1097 A 4				353.72	₩	eac	1		5	70		5		9.0		-		_		-				1.0	90	95			5.0				0.5			5	silty mud
178 1097 A 4	44	R 1	54 3	361.74		wlf	1		25	45	3	0	17.	9.0	20.0		2:	2.0		2.0		3.0		15.0	68	88			8.0				4.0			12	silty mud

Note: 0.5 equal to tr.	Size	Composition - Siliciclastic	Composition - Biogenic	
Leg Site Hole Core Type Section Interval (cm) Depth (mbsf)	Described by Major lithology (1) Minor lithology (2) Sand Silt sum (sand+silt)	Clay Sum (sand+sill+clay) Quartz Feldspar Clay (too fine to identify) Mica Glauconite Rock Fragments Volcanic Glass Acc. Minerals Carbonate Crambolds/micronodules Frambolds/micronodules	Terrigenous (tot silicclclay courns)  Total clay + siliciclastic  Namorfossils  Foraminifers  Diatoms  Radiolarians  Coccolith  Silicoflagellates  Sponge Spicules  Shell debris  unidentified/other	Total Biogenic Sediment or Rock Name
178 1097 A 44 R 3 30 364.50	wlf 1 25 40	35 18.0 7.0 23.0 20.0 2.0 5.0 15.	0 67 90 7.0 0.5 3.0	10 silty mud
178 1097 A 45 R 1 55 371.35	wlf 1 25 45	30 18.0 9.0 25.0 20.0 4.0 8.0 10.	0 69 94 4.0 2.0	6 silty mud
178 1097 A 45 R 2 107 373.37	wlf 1 30 40	30 13.0 9.0 26.0 25.0 4.0 6.0 12.	0 69 95 3.0 1.0 1.0	5 Diatom-bearing silty mud
178 1097 A 46 R 1 30 380.80	wlf 1 25 40	35 14.0 5.0 23.0 25.0 3.0 4.0 15.	8.0 3.0	1 1 silty mud
178 1097 A 46 R 1 50 381.00	wlf 1 20 45	35 18.0 9.0 14.0 18.0 3.0 5.0 18.	75 89 7.0 4.0	1 1 silty mud
178 1097 A 48 R 1 92 400.72	wlf 1 25 45	30 15.0 10.0 33.0 25.0 2.0 3.0 15.	0 62 95 3.0 2.0	5 silty mud
1				

Leg	Site	Hole	e Core	е Туре	Sect	Тор	Bot	Seck	ediment/ro name	Observer	Type of slide	Dominant lithology	Minor lithology	Sand	Silt Cla	Comments	Quartz	Feld- spar	Mica	Glauco- nite	Clay	Rock (sedi- mentary)	IG frag	Opaques	Fe Oxide	Carbon- ate	Other	Mineral subtotal	Forams	Diatoms	Rads	Nannos (general)	Bioclast	Shell deb	Spicules	Organic deb	Other	3io sub- otal
178	109	07 A	10	R	1	4	.0 4	43 Di	iamict	Evans	TS	Diamict/ clayey mud	N/A	20	20 6	Pyrite cement	38	12	. 1		28		3	11			7	98		40	15	5	5		30	5		2
178	109	07 A	25	5 R	1	9	1 9	94 Di	iamict	Evans	TS	Diamict/ clayey mud	N/A	5	25	0	10	14	4	1	63			2			6	98	5	10	45			5	20		15	2