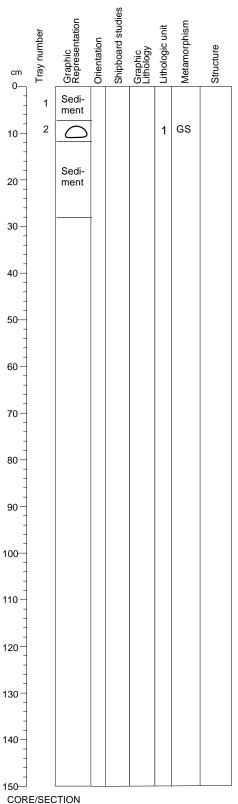
	Site 1112	Hole A Co	re 1F	R Re	ec. 20.6%	0.0-10.5 mbsf
SECTION SECTION Granule very coarse coarse coarse in medium fine fine silt clay	GRAPHIC LITH. BIOTURB.	ACCESSORIES	DISTURB.	SAMPLE		DESCRIPTION
1 2 2		0000000 0000000 0000000		SS SS SS SS	6/4) nanno dark brown	ologies: (5Y 7/1) to light yellow brown (10YR ifossil-rich SILTY CLAY with some in (10YR 3/3) laminae. In Section 1 is of coarse-grained siliciclastic sand



	Site 1	112 Ho	le A C	ore 2	R R	ec. 2.8%	10.5-20.5 mbsf	
METERS SECTION granule very coarse coarse medium fine very fine sist day	GRAPHIC LITH. BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE		DESCRIPTION	
				\ <u>\</u>		Major Lith THe core VOLCANI cm. The b contains > VOLCANI >80% cole and 16-22 nannofoss	catcher is characterized by two C ASH layers at 12-16 cm and 22-25 lack VOLCANIC ASH layer at 12-16 cm 80% brown glass shards, whereas the C ASH layer at 22-25 cm consists of corless glass. The intervals from 0-7.50 cm are composed of sil-bearing SILTY CLAY.  Com a single piece of amphibolite occupetrology Visual Core Description for	cm he i cm



#### 180-1112A-2R-CC (10.50-10.78 mbsf)

**UNIT: 1 HETEROGENEOUS TALUS** 

TRAYS: 2

Depth Interval Location: Core **Section TRAY** (mbsf) Upper contact: CC 10.58 2R 2 Lower contact: 2R 2 CC 10.62

Thickness (m): 0.04

Contact Type: No contacts preserved.

GENERAL: Core contains one pebble among soft sediments. Pebble is a

former igneous rock altered by chlorite and epidote.

**GRAIN SIZE:** Fine-grained **TEXTURE:** Slightly lepidoblastic

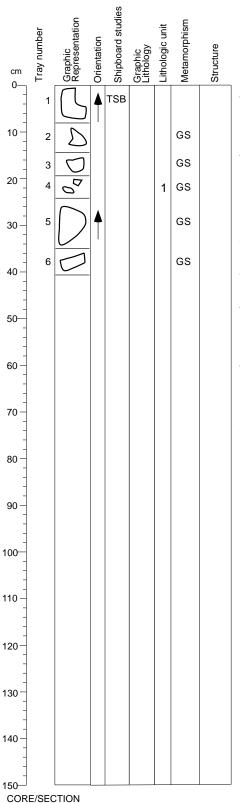
STRUCTURE: Weakly-foliated with foliation planes defined by amphibole

ALTERATION: Veins of calcite, epidote, and pyrite occur.

COMMENTS: Alteration is most likely hydrothermal. Pebble is likely a

talus deposit from nearby Moresby Seamount.

	Site 1112 Hole A Core 3R Rec. 2.7% 20.5-30.1 mbsf										
WETERS SECTION granule granule coarse coarse medium fine fine wery fine Sift day	GRAPHIC LITH. BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION					
	++++ +++				ТНЅ	VOLCANICLASTIC SANDSTONE and GREENSCHIST  Major Lithologies: Core contains angular pieces of VOLCANICLASTIC SANDSTONE and GREENSCHIST likely deposited as talus from nearby Moresby Seamount. VOLCANICLASTIC SANDSTONE contains quartz, feldspar, hornblende, and mica. GREENSCHIST contains chlorite and epidote with some feldspar. Refer to Petrology Visual Core Description for more details.					



#### 180-1112A-3R-1 (20.50-20.90 mbsf)

**UNIT: 1 HETEROGENEOUS TALUS** 

TRAY: 1

Depth

Interval Location: (mbsf) Core **Section TRAY** Upper contact: 3R 20.50 Lower contact: 3R 20.59

Thickness (m): 0.09

Contact Type: No contacts preserved.

GENERAL: Tray 1 contains a volcaniclastic sandstone clast.

**GRAIN SIZE:** Medium-grained

ALTERATION: Some red weathering, likely due to iron-oxidation, is

observed on ferromagnesian grains.

COMMENTS: Volcaniclastic sandstone contains quartz, feldspar, alkali-

feldspar, hornblende, and mica.

**TRAYS**: 2-6

Depth Section TRAY (mbsf) Interval Location: Core Upper contact: 3R 20.59 2 Lower contact: 3R 6 20.90 Thickness (m): 0.31

Contact Type: No contacts preserved.

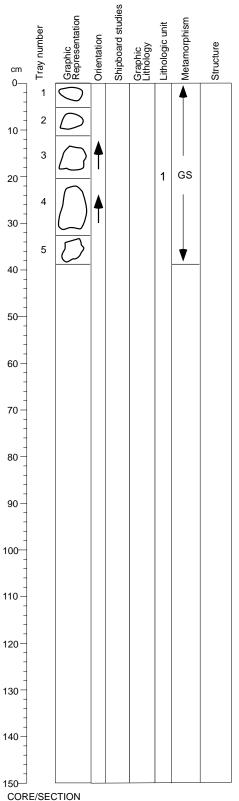
GENERAL: Trays 2-6 contain chlorite-epidote clasts similar to Core 2R.

**GRAIN SIZE:** Fine-grained

ALTERATION: Veins and vugs of calcite, epidote, and pyrite occur.

**COMMENTS**: Alteration is most likely hydrothermal.

		Si	te	1112 H	ole A Co	ore 4	R Red	c. 2.9% 30.1-39.7 mbsf
SECTION	granule BS coarse Coarse Madeum NE medium NE wery fine Sift Coarse Coars	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1		++++						Major Lithology: Core consists of angular clasts of GREENSCHIST with calcite and quartz veins throughout. Clasts are likely talus deposits from nearby Moresby Seamount. Refer to Petrology Visual Core Description for more details.



#### 180-1112A-4R-1 (30.10-30.48 mbsf)

**UNIT: 1HETEROGENEOUS TALUS** 

**TRAYS:** 1-5

| Depth | Interval Location: | Core | Section | TRAY | (mbsf) | Upper contact: | 4R | 1 | 1 | 30.10 | Lower contact: | 4R | 1 | 5 | 30.48 |

Thickness (m): 0.38

Contact Type: No contacts preserved.

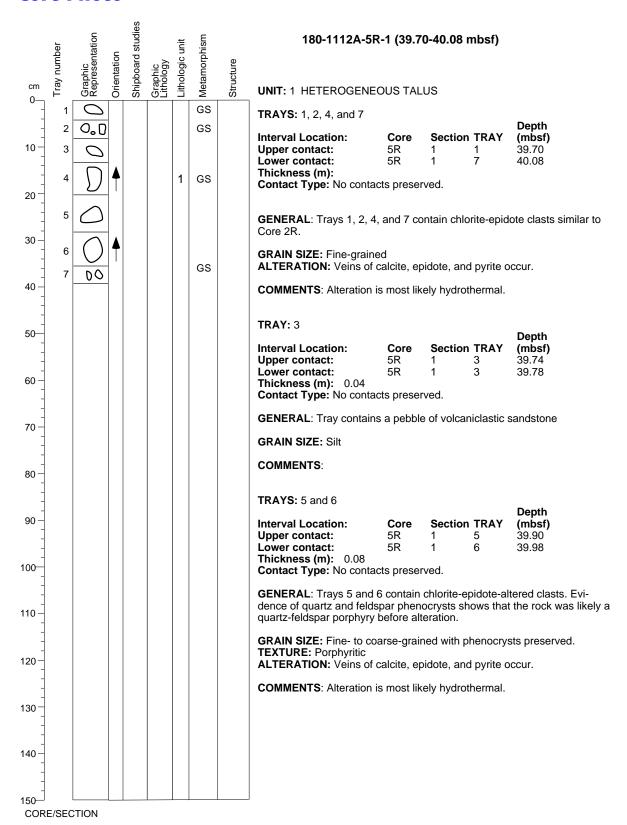
GENERAL: Trays 1-5 contain chlorite-epidote clasts similar to Core 2R.

**GRAIN SIZE:** Fine-grained

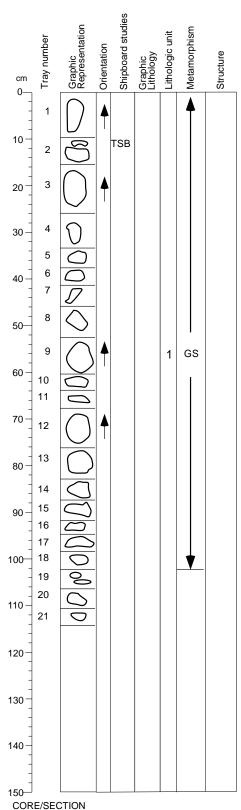
ALTERATION: Veins of calcite, epidote, and pyrite occur.

**COMMENTS**: Alteration is most likely hydrothermal.

Site 1112 Hole A Core 5R Rec. 2.3% 39.7-49.3 mbsf									
METERS	granule B granule Cooks B Cook	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION	
40								GREENSCHIST and VOLCANICLASTIC SANDSTONE  Major Lithologies: Core contains angular clasts of GREENSCHIST and VOLCANICLASTIC SANDSTONE Clasts are likely talus deposits from nearby Moresby Seamount. Two of these clasts are likely quartz-feldspar porphyrys metamorphosed to GREENSCHIST grade. Refer to Petrology Visual Core Description for more details.	



	Site 1112 Hole A Core 6R Rec. 7.3% 49.3-58.9 mbsf									
METERS	granule very coarse Barocarse Barocarse Medium fine fine silf clay	GRAPHIC LITH.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION			
50						— THS	GREENSCHIST, VOLCANICLASTIC SANDSTONE, CARBONATE, and DOLERITE  Major Lithologies: Core contains angular clasts of GREENSCHIST, VOLCANICLASTIC SANDSTONE, CARBONATE, and DOLERITE likely deposited as talus from nearby Moresby Seamount. Refer to Petrology Visual Core Description for more details.			



#### 180-1112A-6R-1 (49.30-50.43 mbsf)

**UNIT: 1 HETEROGENEOUS TALUS** 

TRAYS: 1 and 4-20

Depth (mbsf) Interval Location: Core **Section TRAY** 49.30 Upper contact: 6R Lower contact: 6R 21 50.43

Thickness (m): 1.13
Contact Type: No contacts preserved.

GENERAL: Trays contain chlorite-epidote clasts similar to cores 2R, 3R, 4R,

and 5R.

**GRAIN SIZE:** Fine-grained

ALTERATION: Veins of calcite, epidote, and pyrite occur.

**COMMENTS**: Alteration is most likely hydrothermal.

**TRAYS**: 2 and 19

Depth Interval Location: Core **Section TRAY** (mbsf) Upper contact: 49.40 6R 1 2 Lower contact: 6R 19 50.36

Thickness (m):

Contact Type: No contacts preserved.

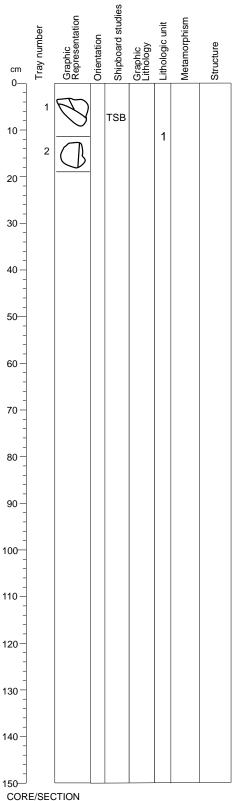
GENERAL: Trays contain pebbles of volcaniclastic sandstone.

GRAIN SIZE: Fine- to medium-grained

ALTERATION: Red alteration, likely iron oxidation, occurs on detrital grains.

COMMENTS: Sandstones contain quartz, feldspar, micas, and ferromagnesian minerals.

	Site 1112 Hole A Core 7R Rec. 1.5% 58.9-68.4 mbsf										
METERS	2	GRANIN BOUND OF STREET OF	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION		
·59-	П		IIII)	Ĭ				<b>∼</b> THS	PHYLLITE		
									Major Lithologies: Core contains two clasts of PHYLLITE of greenschist grade. These clasts are likely talus deposits from nearby Moresby Seamount.		



#### 180-1112A-7R-1 (58.90-59.09 mbsf)

**UNIT: 1 HETEROGENEOUS TALUS** 

TRAYS: 1 and 2

Depth Interval Location: Core **Section TRAY** (mbsf) Upper contact: 7R 58.90 2 Lower contact: 7R 1 59.09

Thickness (m): 0.19

Contact Type: No contacts preserved.

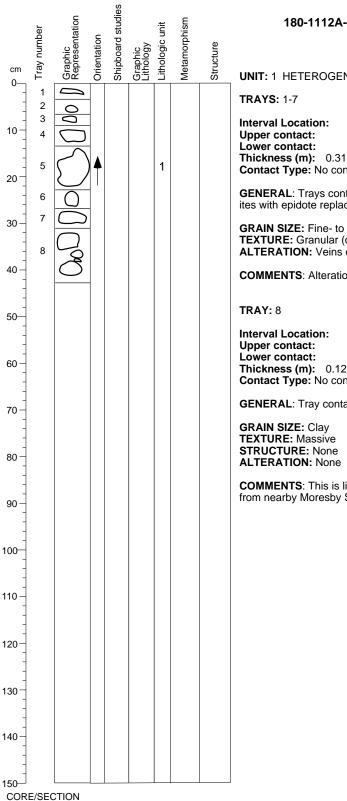
**GENERAL**: Trays contain altered rocks that were likely originally igneous.

GRAIN SIZE: Fine- to coarse-grained (1) and granular (2)

**TEXTURE:** Porphyritic (1), granular (2) **ALTERATION:** Veins of calcite, epidote, and pyrite occur.

COMMENTS: Alteration is most likely hydrothermal. Tray 1 contains an altered porphyritic granitic rock. Tray two contains a less-altered clast that appears to be diabasic.

GRAIN SIZE  OLD STRUCTURE  GREENSCHIST METADOLERITE, and CLAY  Major Lithologies: Core contains green CLAY that contains 1-2 re fragments of detrital material. Clasts of GREENSCHIST METADOLERITE are likely ta deposits from nearby Moresby Seamount. Re to Petrology Visual Core Description for more				S	ite	1112	Н	ole A	Co	re	8R	Red	3.5%	68.4-68.	7 mbs	sf	
Major Lithologies: Core contains green CLAY that contains 1-2 n fragments of detrital material. Clasts of GREENSCHIST METADOLERITE are likely ta deposits from nearby Moresby Seamount. Re	SECTION	8	달	CTH.	BIOTURB.	STRUCTU	RE	ACCESSORIES		DISTURB.		SAMPLE		DESC	RIPTION		
Major Lithologies: Core contains green CLAY that contains 1-2 n fragments of detrital material. Clasts of GREENSCHIST METADOLERITE are likely ta deposits from nearby Moresby Seamount. Re		<del>'</del>															
details.		<u>'</u>	-	† †				Lth					Major Core of fragme GREE deposito Petr	Lithologies: contains green ents of detrital NSCHIST MET its from nearby rology Visual C	CLAY that material. C ADOLERI Moresby	contains 1-2 Clasts of TE are likely t Seamount. R	mm talus efer



#### 180-1112A-8R-CC (68.40-68.73 mbsf)

**UNIT: 1 HETEROGENEOUS TALUS** 

Depth **Section TRAY** Interval Location: Core (mbsf) CC Upper contact: 8R 68.40 Lower contact: 8R 68.71

Contact Type: No contacts preserved.

GENERAL: Trays contain altered rocks that were possibly original doler-

ites with epidote replacement.

GRAIN SIZE: Fine- to medium-grained TEXTURE: Granular (original igneous)

ALTERATION: Veins of calcite, epidote, and pyrite occur.

**COMMENTS**: Alteration is most likely hydrothermal.

Depth Interval Location: Core **Section TRAY** (mbsf) Upper contact: 8R CC 8 68.71 8R CC 8 68.83 Lower contact:

Thickness (m): 0.12

Contact Type: No contacts preserved.

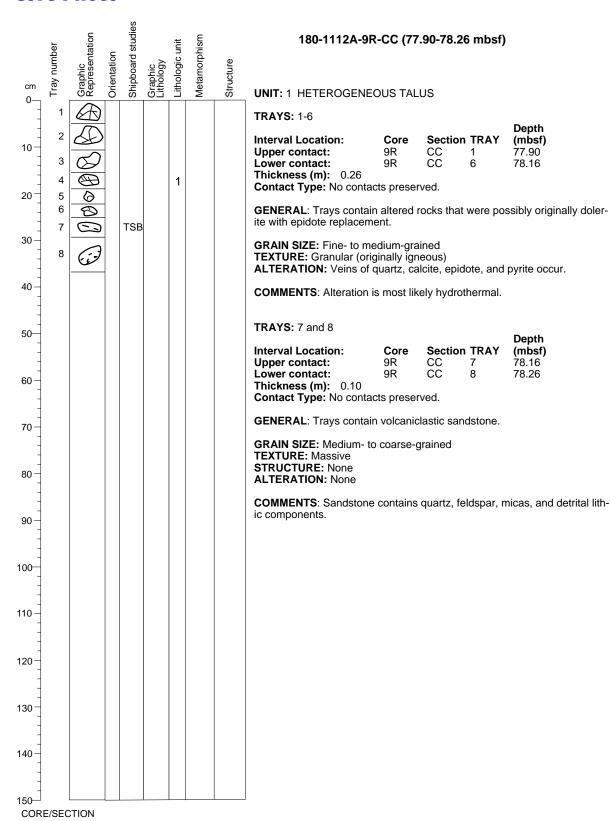
**GENERAL**: Tray contains a light green clay with detrital lithic fragments.

**TEXTURE:** Massive STRUCTURE: None **ALTERATION: None** 

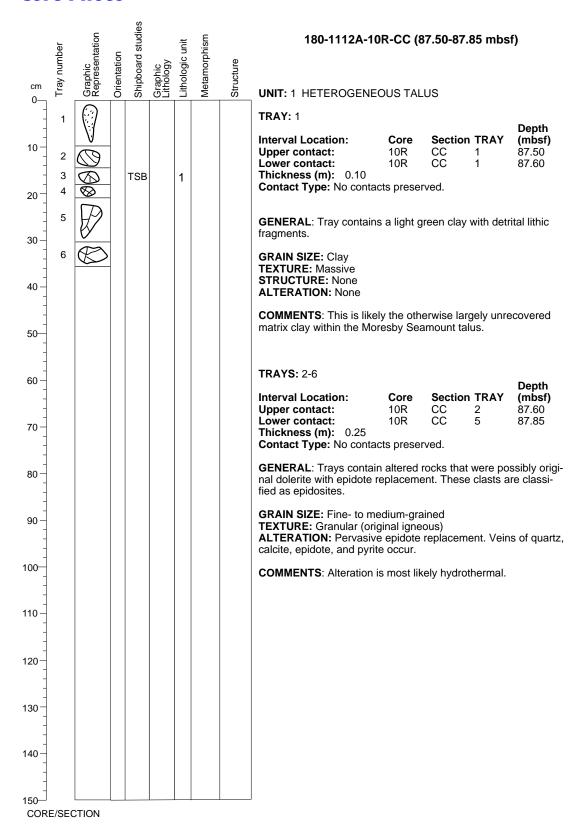
COMMENTS: This is likely the unrecovered matrix clay within the talus

from nearby Moresby Seamount.

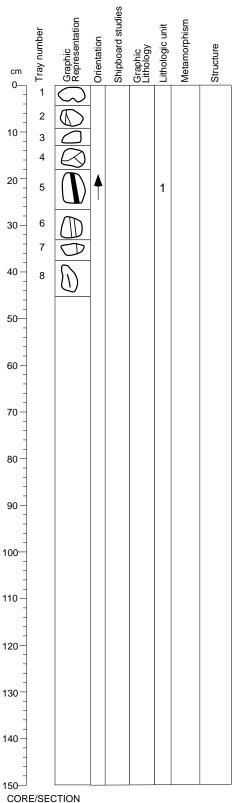
		Sit	е	1112 Ho	le A Cor	e 9F	R Rec.	. 2.7% 77.9-87.5 mbsf
METERS	granule very coarse B very coarse B medium S I fine S I silt M day	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
.78							— тнs	METADOLERITE and VOLCANICLASTIC SANDSTONE  Major Lithologies: Core contains poorly-sorted, mixed, terrigeneous VOLCANICLASTIC SANDSTONE and clasts of hydrothermally altered greenschist-facies METADOLERITE. Refer to Petrology Visual Core Description for more details.



		Sit	e 1112	2 Hol	le A Co	re 1	OR Re	ec. 2.7% 87.5-97.2 mbsf
METERS SECTION	granule very coarse B Coarse Medium Kine fine silt CIS	GRAPHIC LITH.	STRUC	ΓURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
		+ + + + + + + + + + + +		Į.	th		— тнs	CLAY and METADOLERITE  Major Lithologies: Core consists of partially lithified, green CLAY that contains detrital lithic fragments and hydrothermally altered greenschist-facies METADOLERITE containing veins of quartz, calcite, and epidote. Refer to Petrology Visual Core Description for more details.



	Site 1112 Hole A Core 11R Rec. 8.7% 97.2-101.8 mbsf										
METERS	granule Branule Branul	GRAPHIC LITH.	ME DO STRUCTU	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION				
		++++					METADOLERITE  Major Lithology: Core consists of clast of greenschist-facies METADOLERITE likely deposited as talus from nearby Moresby Seamount. Refer to Petrology Visual Core Description for more details.				



#### 180-1112A-11R-CC (97.20-97.65 mbsf)

**UNIT: 1 HETEROGENEOUS TALUS** 

**TRAYS**: 1-8

Thickness (m): 0.45

Contact Type: No contacts preserved.

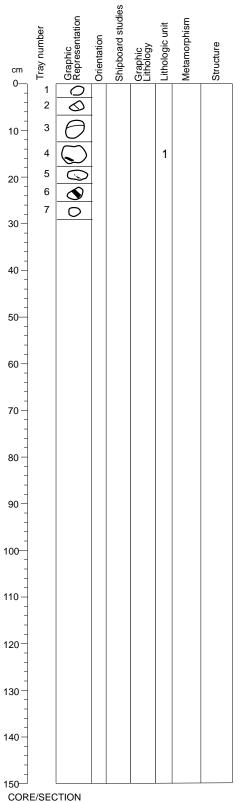
**GENERAL**: Trays contain altered rocks that were possibly original dolerite. These rocks are of greenschist grade and are similar to the previously-described greenschist-grade metamorphics at this site.

**GRAIN SIZE:** Fine- to medium-grained **TEXTURE:** Granular (original igneous)

STRUCTURE: Veined

ALTERATION: Veins of quartz, calcite, epidote, and pyrite occur.

**COMMENTS**: Alteration is most likely hydrothermal.



#### 180-1112A-12R-CC (101.80-102.09 mbsf)

**UNIT: 1 HETEROGENEOUS TALUS** 

**TRAYS: 1-7** 

Interval Location:	Core	Section TRAY	
Upper contact:	12R	CC 1	101.8Ó
Lower contact:	12R	CC 7	102.09
Thickness (m): 0.29			

Contact Type: No contacts preserved.

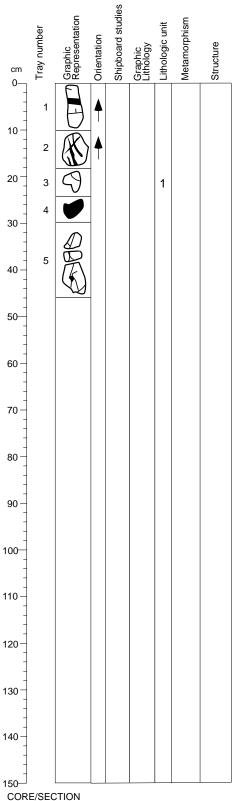
**GENERAL**: Trays contain altered rocks that were possibly originally dolerite or microdiorite. These rocks are of greenschist grade and are similar to the previously-described greenschist-grade metamorphics at this site.

GRAIN SIZE: Fine- to medium-grained TEXTURE: Granular (original igneous) STRUCTURE: Massive, veined

ALTERATION: Veins of quartz, calcite, epidote, and pyrite occur.

**COMMENTS**: Alteration is most likely hydrothermal. Special features include red material within a quartz vein in Tray 6 and a vug filled

with calcite (and possibly quartz) in Tray 5.



#### 180-1112A-13R-CC (106.80-107.25 mbsf)

**UNIT: 1 HETEROGENEOUS TALUS** 

**TRAYS:** 1-5

Thickness (m): 0.45

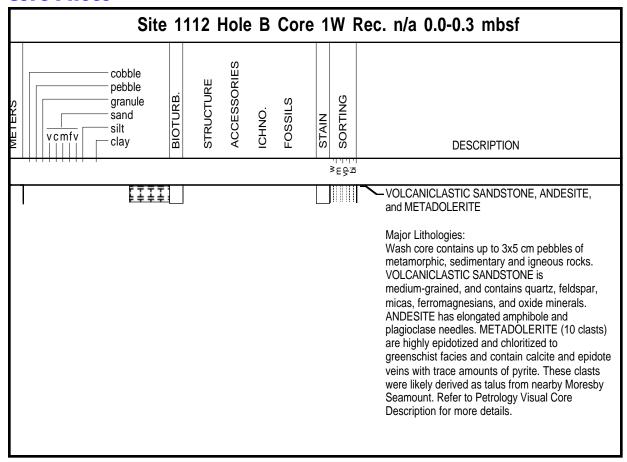
Contact Type: No contacts preserved.

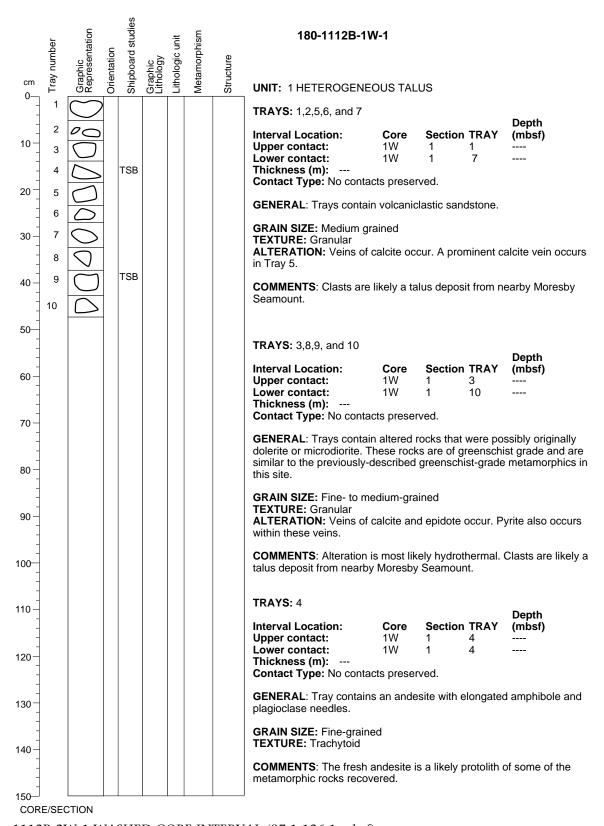
**GENERAL**: Trays contain altered rocks that were possibly original dolerite. These rocks are of greenschist grade and are similar to the previously-described greenschist-grade metamorphics at this site.

**GRAIN SIZE:** Fine- to medium-grained **TEXTURE:** Granular (original igneous) **STRUCTURE:** Massive, veined

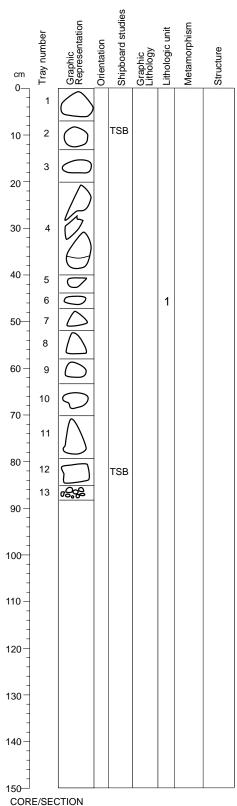
ALTERATION: Veins of quartz, calcite, epidote, and pyrite occur.

**COMMENTS**: Alteration is most likely hydrothermal.





1112B-2W-1 WASHED CORE INTERVAL (87.1-126.1 mbsf).



#### 180-1112B-3R-1 (126.10-126.97 mbsf)

**UNIT: 1 HETEROGENEOUS TALUS** 

TRAYS: 1-3 and 5-13

Thickness (m): Contact Type: No contacts preserved.

GENERAL: Trays contain metadolerite.

GRAIN SIZE: Fine- to medium-grained

**TEXTURE:** Granular

ALTERATION: Epidote and chlorite alteration with veins of calcite,

quartz, and epidote.

**COMMENTS**: Clasts are likely a talus deposit from nearby Moresby Seamount. All of the above indicated trays have veins. Trays 2 and 3 have epidote veins. Trays 7-12 have quartz veins. Trays 1 and 5 have calcite veins. Tray 13 contains a blotchy metadolerite with indeterminate granules.

TRAY: 4

				Depth
Interval Location:	Core	Section	TRAY	(mbsf)
Upper contact:	3R	1	4	126.30
Lower contact:	3R	1	4	126.60
Thickness (m): 0.30				

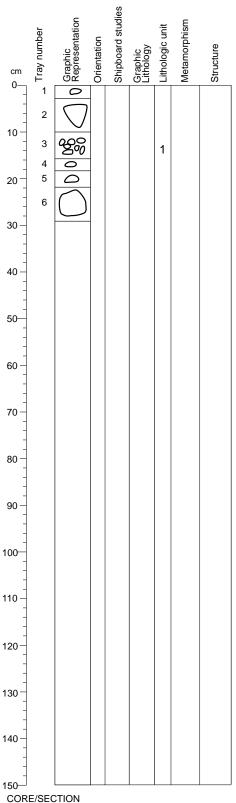
Thickness (m): 0.30

Contact: No contacts preserved.

**GENERAL**: Tray contains clay with up to 1 cm clasts of the previously-described rocks.

GRAIN SIZE: Clay TEXTURE: Massive STRUCTURE: None ALTERATION: None

**COMMENTS**: This is likely the unrecovered matrix within the Moresby Seamount talus.



#### 180-1112B-4R-1 (135/70-135.98 mbsf)

**UNIT: 1 HETEROGENEOUS TALUS** 

**TRAYS**: 1-6

Interval Location:	Core	Secti	on TRAY	Depth (mbsf)
Upper contact:	4R	1	1	135.70
Lower contact:	4R	1	6	135.98

Thickness (m): 0.28 Contact Type: No contacts preserved.

**GENERAL**: Trays contain metadolerite.

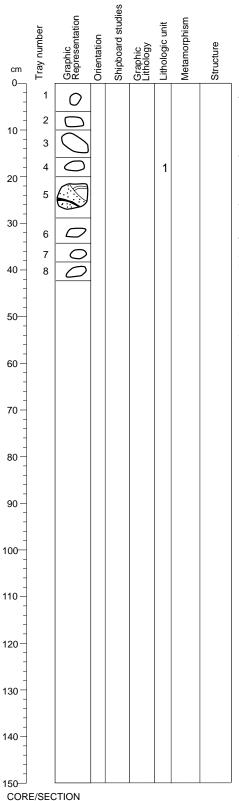
GRAIN SIZE: Fine- to medium-grained

TEXTURE: Granular

ALTERATION: Epidote and chlorite alteration with veins of calcite,

quartz, and epidote.

**COMMENTS**: All of the above indicated trays have veins. Trays 2 and 3 have epidote veins. Trays 7-12 have quartz veins. Tray 3 contains numerous fragments that are indeterminable in hand-sample.



#### 180-1112B-5R-1 (145.40-145.83 mbsf)

**UNIT: 1 HETEROGENEOUS TALUS** 

**TRAYS**: 1-8

Thickness (m):

Contact Type: No contacts preserved.

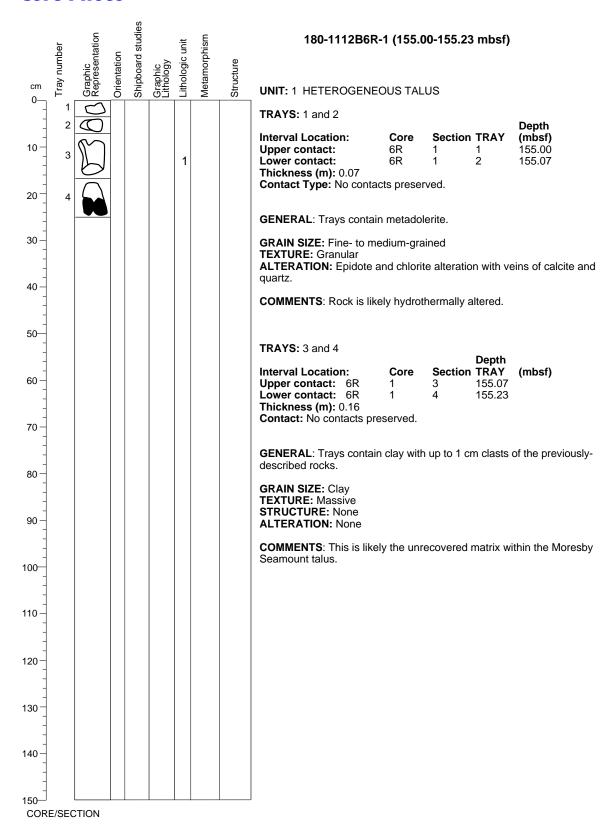
**GENERAL**: Trays contain metamorphosed, highly-siliceous rocks hydrothermally altered to Greenschist facies conditions.

**GRAIN SIZE:** Fine-grained

**TEXTURE:** ??

ALTERATION: Epidote and chlorite alteration with veins of calcite, quartz, and epidote. Red blotches also occur, may be former oxidized lithics from sedimentary source.

**COMMENTS**: All of the above indicated trays have veins. These rocks are more siliceous than what have been referred to as metadolerite. It is possible that red blotches within these siliceous rocks were originally oxidized detrital grains in sandstones.



				_			_																					_										
					Siz	e					Sili	icicla	stic	ar	ıd v	olo	can	icla	stic	c c	om	ро	siti	on						Bi	og	eni	c cor	mp	osi	tio	n	
Core, section interval (cm)	Depth (mbsf)	Described by	Lithology (dominant/minor)	Sand	Silt	Clay	Quartz	Feldspar	Plagioclase	Muscovite Biotito	bloute	Amphibole		Rock fragments (sedimentary)	Rock fragments (metamorphic) Rock fragments (bassaltic)	Volcanic glass	Volcanic glass Volcanic glass (brown)	glass			Calcite	Dolomite	Opaque (oxide)	Opaque (sulfide)	Fe oxides	Clinoptilolite	Phillipsite Other	Clay	Nannofossils	Foraminifers	Diatoms	Radiolarians	Sponge spicules Shell debris	Ordanic material	Organic material Fish debris	Bioclasts	Unidentified/other	Sediment or rock name
180-1112A- 1R-1, 5			D		c	a	r	r			r				r				r		С							a	a	С	r							Silty clay nannofossil ooze
1R-1, 19	0.19	AR	D	r	c	a	r	r								r	r				r			r				a	a	r	r	r						Silty clay
1R-1, 45	0.45	TS	D		C	a	r	c			r						r		r									a	a	r			r					Silty clay nannofossil ooze
2R-CC, 14	10.64	AR	М	r	a	С		r							ı	ri	a a	ı										a	С	r								Brown glass-rich volcanic ash
2R-CC, 17	10.67	TS	D		c	a	r	r			r				r	r	r		r					r				a	a	r			r					Silty clayey nannofossil ooze
2R-CC, 20 2R-CC, 23.5	10.70 10.73		D			c a	1	r r			r					,	a	r a			r			r				a		r r			c r					Clayey silt Colorless glass-rich volcanic ash
	1	1	1	1																								1	1									

Note: a = abundant (51%-100%); c = common (11%-50%); r = rare (1%-10%).

				Ē.		Size						N	Min	era	ls						R	ock	fra	ıgm	ents						
Thin-section number	Core, section, interval (cm)	Depth (mbsf)	Described by	Lithology (dominant/minor)	Sand	Silt		Minerals %	Quartz Strained	Feldspar	Multiple twins	Single/untwinned	Mica	Biotite	Chlorite	Accessory Minerals	Clinopyroxene	Amphibole	Epidote	Opaques	Rock fragments (%)	Volcanic	Rhyolitic/dacitic	Vitric	Andesitic/basaltic	Master: 70/2	Biodacts (%)		Carbonaceous detritus	Rock name	Comments
122	180-1112A- 3R-1, 2-5	20.52	TRS	М	Α	R	R	30	R a	A	С	c	R	a		С	С	a			50	Α			a	2	0			Medium-	Poorly sorted, angular
																														grained sandstone	detrital mineral grains, subrounded rock fragments
123	6R-1, 10-12	49.40	TRS	М	R	С	A	20	R	С			С	a	С	R	a			С						7	9	1	a	Silty claystone	Claystone matrix, rare disseminated carbonaceous detritus
125	9R-CC, 25-27	78.15	TRS	М	А	R		40		Α	a	С	R	a	R	R	a		r		60	Α	С	r	a	r				Coarse- grained sandstone	Poorly sorted, subrounded rock fragments, angular detrital mineral grains

Note: A = abundant (51%–100%); C = common (11%–50%); R = rare (1%–10%); lower case letters indicate subcategories of the major constituents.

180-1112A-7R-1 (7- 10 cm)

Thin section: # 124

PRIMARY

**ROCK NAME:** Calc-silicate rock **GRAIN SIZE:** Coarse- to Fine-grained

PERCENT

**PERCENT** 

**TEXTURE:** Porphyritic

MINERALOGY	PRESENT	ORIGINAL	(mm)	SITION	MORPHOLOGY	COMMENTS
Amphibole or Clinopyroxene	0	15	Up to 4		Euhedral	Porphyroclast pseudomorphed into serpentinite.
SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING		COMMENTS		
Quartz Calcite Pyrite Chlorite	35 40 15 10	Vein ?Veins Porphyroclasts	0.1 0.3 2-5	Fibrous in tails are	quartz associated in veins and ound pyrite, filling veins, and rystallization of calcite fibers	

COMPO-

**COMMENTS**: Intensely altered rocks, calcite, quartz, and pyrite are dominant, indicating hydrothermal alteration. Primary mineralogy difficult to determine.

SIZE

180-1112A-10R-CC (15- 17 cm)

Thin section: # 126
ROCK NAME: Cataclastic Epidosite
GRAIN SIZE: Fine-grained

**TEXTURE:** Mortar

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPO- SITION	MORPHOLOGY	COMMENTS
Quartz White mica	20 5	0.2 0.1			Anhedral Platy	
Plagioclase	20	0.1			Anhedral	Replaced by epidote.
SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING		COMMENTS		
Quartz	5	Vein	0.1	Very fine grained	quartz associated in veins	and tails around pyrite.
Chlorite	5	Mica	0.1	, ,	•	••
Epidote	30	Plagioclase, vein	2-5	Granular.		
Clay	10	All	0.1	In the matrix asso	ociated with epidote.	
Pyrite	5					

COMMENTS: Intensely altered rocks, calcite, quartz, and pyrite are dominant, indicating hydrothermal alteration. Primary mineralogy difficult to determine.

180-1112B-1W-1 (12- 17 cm)

Thin section: # 127

ROCK NAME: Intermediate volcanic

GRAIN SIZE: Fine-grained TEXTURE: Trachytoid

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE COMPO- (mm) SITION	MORPHOLOGY	COMMENTS
Clinopyroxene Amphibole Quartz Plagioclase Biotite	10 50 5 20 2	- - - -	1-2 0.5 Up to 4 0.05 0.5-1	Subhedral Euhedral Subhedral Subhedral Subhedral	Elongated amphibole needles. Embayments against the groundmass. Elongated plagioclase needles. Associated with pyroxene.
Groundmass SECONDARY MINERALOGY	3 PERCENT	- REPLACING/ FILLING	COMMENTS		
Negligible					

**COMMENTS**: Cannot be classified without the chemical composition due to fine-grained groundmass.

Thin section: #128
ROCK NAME: Epidosite
GRAIN SIZE: Fine-grained
TEXTURE: Granular

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE COMPO- (mm) SITION	MORPHOLOGY	COMMENTS	
SECONDARY MINERALOGY	REPLACING/ PERCENT	FILLING	COMMENTS			
Quartz	30					
Calcite Epidote	30 30					

**COMMENTS**: Network of fractures (0.1 to 0.5 mm wide) filled with quartz +epidote +/- calcite. Cataclastic zone (1-2 mm wide).

180-1112B-1W-1 (piece 12, 55- 57 cm) Thin section: # 129

ROCK NAME: Metadolerite

GRAIN SIZE: Coarse- to coarse-grained TEXTURE: Porphyritic with poikilitic groundmass

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	COMPO- SITION	MORPHOLOGY	COMMENTS
Pyroxene	20	20	1		Poikilitic	
Olivine	0	10	1		Euhedral	
Amphibole	25	?	0.5		Fine needles	
SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING		COMMENTS		
Quartz	20	1		Interstitial.		
0.1.4	2	Veins	0.3	Fibrous in tails	around pyrite, filling veins, a	nd in the matrix.
Calcite					Occurs as pseudomorphs	

**COMMENTS**: A very difficult rock to classify in thin section, XRF shows it to be an original dolerite.