

# SAMPLE STATION DATA

INSTITUTE OF GEOLOGICAL SCIENCES - MARINE GEOLOGY UNIT

SAMPLE NO.

**F** +59-02.85  
 1 ± lat ± long no. 11

CRUISE NO. 82 WH 5  
 year : ship : no 18

DATE 06 07  
 mnth : day 22

TIME (local) 18 15  
 hrs : mins 26

WATER DEPTH 127  
 metres 30

POSITION FIXING METHOD A COMMENT    
 32

NAVIGATIONAL READINGS (tick lanes with best intersection)

CHAIN 6C RED  GREEN  PURPLE

LATITUDE +59-02.85 LONGITUDE -0129.70  
 ± degs : mins (decimal) 63 ± degs : mins (decimal) 71

POSITION

ADDITIONAL INFORMATION :

EQUIPMENT TYPE: 1 = sample recovered 3 = no sample (equipment failure)  
 2 = no sample (geological reasons) 4 = no sample (undifferentiated)

**G** 12 22 32 T.D. metres 6.00  
 1 dup cols 2-11 50 55

SUMMARY SAMPLE DESCRIPTION : (Free text - max. 69 characters)

**H** VERY SOFT, OLIVE-GREY, MUD WITH LAM  
 1 dup cols 2-11 12 20 30 40

INAE SAND ON RED-BROWN MUDDY SAND  
 50 60 70 80

GEOTECHNICAL DATA :

RAW DATA					AVERAGED DATA						
PENETROMETER					HAND VANE						
Head	Readings				Head	Readings					
100/8	0.5	0.7	0.5	0.5	x2	1.2	1.7	2.1	0.3	6.7	3.2
100/8	0.6	0.6	0.5	0.4	x2	1.8	2.0		0.8	6.5	3.8
100/8	0.5	0.6	0.5	0.6	x2	1.8	2.0		1.3	6.8	3.8
100/8	0.5	0.5	0.6	0.6	x2	2.0	2.0		1.8	6.8	4.0
100/8	0.5	0.5	0.6	0.5	x2	2.0	2.3		2.3	6.5	4.3
100/8	0.4	0.5	0.4	0.4	x2	2.1	2.2		2.8	6.5	4.3
100/8	0.6	0.8	0.5	0.7	x2	2.9	2.9		3.3	8.2	5.8
100/8	0.7	0.7	0.7	1.0	x2	3.3	3.1		3.8	9.2	6.4
					x2				4.3		
					x2				4.8		
					x2				5.3		
					x2				5.8		

# SAMPLE DESCRIPTION SHEET

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SAMPLE NO.

59 - 02 85

**SURFACE SAMPLE**      Equipment Used: GS      Seabed Photo: Yes/No      Stored in: 1 Jars, - Bags.

*SAND, olive-green (5Y4/3.5) fine to medium-grained, well-sorted, A-r, with abundant flake mica, c 50% finely comminuted carbonate sand including broken spicula, rare only foraminifera, c 10% shell gravel including whole valves Venus, Glycymeris glycymeris*

**CORE SAMPLE**      Equipment Used: VE      Stored in: 6 Cut Cores, - Uncut Cores, 1 Jars, - Bags.

Depth (m)	Log	Description	Core Photo: Yes/No	Sub Samples	Geotechnical Log
0		0 - 3.90m <u>Interlaminated MUD</u> , very soft, highly plastic, olive-green (5Y4.5/1), but variable from olive-green to reddish-brown ( ) in basal 70cm, slightly silty, trace sandy, only slightly calcareous; and <u>SAND</u> , very fine-grained, well-sorted, a-A, (c 15% lithic gravel), abundant mica, trace shell sand, abundant iron-stained grains. Muds c 90%. Sand occurs as laminae up to c 2-3 mm, but above 1.2m occurs also as rounded pods, lenses, probably extensively bioturbated at top			
1					
2		3.90-4.16m <u>MUD</u> a/a, with c 10% lithic gravel, a-r, up to c 10mm diameter, few rounded pods red sand, clay.			
3		4.16 - 4.32m <u>Colour-banded sand</u> , variable from white (5Y7/5), to grey (5Y5/1) to dark red-brown (2.5YR3.5/2) fine-coarse-grained, moderately-sorted, r-R, non-calcareous, c 5% of grains coated in limonite			
4		4.32 - 6.00m <u>MUDDY SAND</u> , reddish-brown (5YR4.5/3) medium to coarse-grained, c 5% fine, poorly-sorted, (a-R), with c 2% lithic gravel various lithologies disseminated throughout up to approx 72mm diameter. Structureless, non-calcareous.			
5					
6					

T.D. 6.00 M

○ shear strength    Δ compressive strength

# SAMPLE STATION GEOLOGY

 GEOLOGIST *DC*

 SAMPLE NUMBER **K**

459-02-85

**K** dup columns 2-11

DEPTH INTERVAL (m)		SEDIMENT (folk class) or main rock type	subordinate rock type	MUNSELL COLOUR	Sorting HCl Reaction	SAND			MUD		GRAVEL			Basal Contact Bedding Jointing H <sub>2</sub> S Odour Heavy Minerals Mica Glauconite Fragm./Fossils Whole Shells Forams Plant Remains	Chronostrat Lithostrat	Unit	Comments
upper	lower					Grain Size Range	Roundness Range	Sphericity	% Shell Material	Hard- ness	Plasti- city	% Shell Material	Max. Clast Size (mm)				
0:00	3:90	M		5Y 4.5/1	W	W	V	SA	φ	V	H			F			
3:90	4:16	E, M		5Y 4.5/1		W				V	H	φ	1.0	SU			
4:16	4:32	S			M		F	UR	φ					SC			
4:32	6:00	(G) MS		5YR 4.5/3P		P	F	CR	φ			φ	7.7	SU			

ABUNDANCE SCALE

**L** dup columns 2-11

DEPTH INTERVAL (m)		ADDITIONAL COMMENTS (FREE TEXT)
upper	lower	
4:16	4:32	SAND, COLOUR-BANDED, WHITE, DK RED-BROWN, GREY

SORTING OF TOTAL SAMPLE	HCl REACTION	SAND GRAIN SIZE	ROUNDNESS	SPHERICITY	MUD HARDNESS	MUD PLASTICITY	BASAL CONTACT	BEDDING	JOINTING	H <sub>2</sub> S ODOUR	ABUNDANCE SCALE	LITHOSTRAT UNIT	COMMENTS
V=very poorly sorted P=poorly sorted M=moderately sorted W=well sorted X=very well sorted	N=no reaction W=weak M=moderate S=strong	S=silt V=very fine F=fine M=medium C=coarse K=very coarse	V=very angular A=angular S=subangular U=subrounded R=rounded W=well rounded	L=low H=high	V=very soft S=soft F=firm T=stiff Y=very stiff H=hard	N=non-plastic L=low plasticity I=intermediate H=highly plastic	G=gradational S=sharp E=erosive U=unconformity	F=flat lamination R=ripple lamination X=cross-bedded D=disturbed C=colour banded G=graded bedding	J=prominent joints D=prominent discontinuities F=fissuring	W=weak M=moderate S=strong A=induced by acid	R=rare C=common A=abundant	G=group F=formation M=member B=bed I=informal	C = additional comments below 1,2 etc = label if more than one comment SHEET ____ OF ____