DREDGE 12
E. Flank
Karin Ridge

AMPLE ID	Mn CHEM	Pt & Au	REE	Si Chem	P.Sect.	35mm Pho	Archive	Paleo	XRD				
CD12-1	✓ Unwrk 5mm			✓	✓				Xtals From/Mahr				
CD12-2	✓			✓									
CD12-3					TS/ ✓ [illegible]								

Sample Description

Cruise I.D: F7-86-HW Sample I.D: Sta: 14 CD12-1 Location: E. Flank Karin Ridge

22x15x11

Size: _____ Weight: 2 kg

Mn crust thickness:

Total: min: 13.5 mm max: 15.0 mm ave: 14.0 mm

Inner crust: min: ____ max: ____ ave: ____

Outer crust: min: ____ max: ____ ave: ____

Surface texture: Smooth to granular, glassy botryoidal on one edge -

Internal structure: _____

layered: _____
laminated: _____
massive: _____
porous: _____
dendritic: _____
other: _____

Mineralogy (XRD): _____

Associated alteration, phosphorite, or hydrothermal deposits: _____

Substratum:

Rock type: Volcanic Breccia

Description: Basalt, ~~phosphorite~~, + mudstone clasts w/ calcite cement + sandy matrix, much Mn scattered through Rx.

Cement had x'tals in void areas. XRD [illegible]

Mineralogy (XRD): _____

CD12-1

F7-86-HW
Karin Ridge
Johnston Is

Analyses and subsamples:

analysis:	analyst:
Mn Crust Chem	
CD12-1A Bulk	0-11 mm
CD12-1D Inner 5 mm	5-5 mm
Silicate Chem	
CD12-1B	
XRD	
CD12-1C xtals from Matrix	
D Polished [illegible] of edge to look at [illegible] of edge	

Sample Description

Cruise I.D: F7-86-HW Sample I.D: Sta: 14 CD 12-2 Location: E Flank Karin Ridge

Size: 8x6.5x6 Weight: 0.2 kg

Mn crust thickness:

Total: min: 14mm max: 25mm ave: 20mm top, 8mm side

Inner crust: min: — max: — ave: —

Outer crust: min: max: ave:

Surface texture: smooth; glassy but worked on edge; granular on side

Internal structure:

layered:
laminated:
massive: X
porous:
dendritic:
other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: Basalt

Description: Brown Basalt w/ rare plag phenocr.

Not enough sample for [illegible]

Mineralogy (XRD):

CD 12-2

F7-86-HW
Karin Ridge
Johnston Is

Analyses and subsamples:

analysis:	analyst:
1/2 To Alice	
Mn Crust Chem CD12-2A Bulk 24gm	20mm
Silicate Chem CD12-2B	
D.P. Section - did not send	

Sample Description

Cruise I.D: F7-86-HW Sample I.D: Sta: 14 CD12-3 Location: E Flank Karin Ridge

Size: — Weight: 2 kg

Mn crust thickness: NONE

Total: min: max: ave:

Inner crust: min: max: ave:

Outer crust: min: max: ave:

Surface texture:

Internal structure:

layered:
laminated:
massive:
porous:
dendritic:
other:

Mineralogy (XRD):

Associated alteration, phosphorite, or hydrothermal deposits:

Substratum:

Rock type: Basalt

Description: 4 pieces from a large 30 x 20 cm clast in breccia boulder - Basalt cobbles with breccia coating, breccia cemented with calcite (xtals); phosphorite?

Mineralogy (XRD):

CD12-3

F7-86-HW
Karin Ridge
Johnston Is

Analyses and subsamples:

analysis:	analyst:
Thinsection made of one sample for Alice to look at	

Cruise Id: F7-86-HW Size _____ (cm) Location: KARIN RIDGE

Sample Id: CD 12-4 Weight: _____ (kg) Depth: _____ (m)

Mn Crust Description

Surface Texture: _____

Mn Crust Thickness (mm):

Min: _____ Max: _____ Ave: _____

Layers (Outer to Inner)(mm):

	Min	Max	Ave	Texture & Color
1.				
2.				
3.				
4.				
5.				
6.				

* Alice has this sample. She has numbered it CD12-A4.

Comments and XRD Mineralogy:

ANALYSES

Subsample Number	Analysis	LayerThickness

Substrate Description

Rock Type: Basalt (hawaiite)

Description:

Biology ?:

Described By: Alice Davis

Subsampled By: