Dredge Sample Summary Sheet

Sample ID	Bulk CC	Layer CC	Pt & Au	Ree	OC	DPTS/TS	XRD	35mm Photo	Paleo	Archive
D12-3A	1		1	1			1			
D12-3B					1	1	1			

D12 - made of [illegible]

SAMPLE DESCRIPTION

Cruise Id: Tunes 6 Cut Size (cm): 16½ X 14 X 4 Location: ~~V2-91-CP~~ W side of Neen Koiaak

Sample Id: D12-1 Weight (kg): 1.4 Depth (m):

Mn Crust Description

Surface Texture: eroded botryoids
Granular on Bottom -
Patina

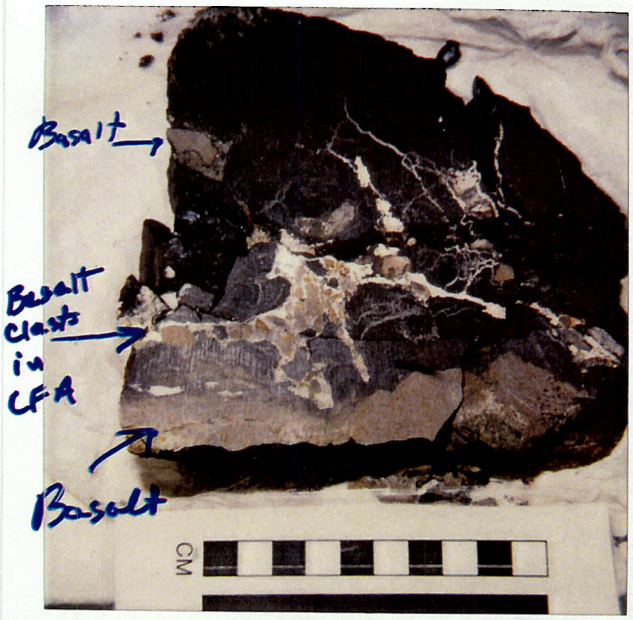
Mn Crust Thickness (mm):

Min: 90 Max: 120 Ave: 100

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	90	120	100	Black massive porous phosphorite
2				Veins running
3				throughout Mn
4				with clasts in the larger
5				veins Few
6				individual clasts by itself

& Mn on bottom



Tunes 6
D12-1

Comments and XRD Mineralogy:

Sample Fragmented

Subsample

Substrate Description

Rock Type: Sedimentary Breccia
Orange - brown - grey

Description: Basalt - or Basalt Clasts in CFA Cement -
Mn oxide impregnations & phosphorite

Biology (?): Veins

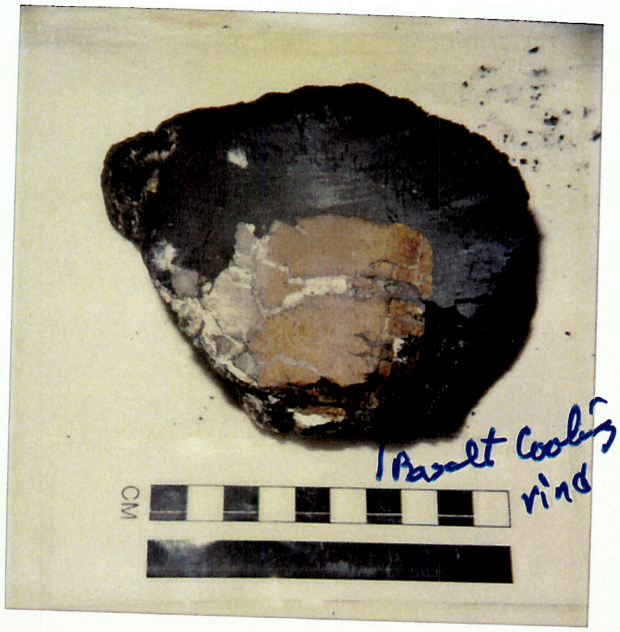
Described by: JW

Subsampled by:

SAMPLE DESCRIPTION

Cruise Id: Tunes 6 Cut Size (cm): 11X12.4X4.7 Location: ~~V2-91-CP~~ W side of Neen Koiaak

Sample Id: D12-2 Weight (kg): 0.64 Depth (m):



Tunes 6
D12-2

see back for other side

Mn Crust Description

Surface Texture: Granular
An end piece

Mn Crust Thickness (mm):

Min: Max: 83 Ave: 70

This is for backside cut adjacent to nucleus

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	23	40	30	Black + vuggy with 3
2				successive stages of
3				growth and alteration
4				Sediment filling
5				vugs
6		43		black massive dense with some microphosphorite veins

Comments and XRD Mineralogy:

Side of Nod. in photo = 40 mm thick

Subsample

Substrate Description

Rock Type: Sedimentary Breccia
Tan & Biege

Description: Poorly sorted Basalt clasts in phosphorite cement Tan large clast is an altered basalt cooling rind. Top layer replaced by apatite some Mn oxide impregnation

Biology (?):

Described by: JW

Subsampled by:

Tunes 6
D12-2

SAMPLE DESCRIPTION

Cruise Id: Tunes 6 Cut Size (cm): 10½ x 14.3 x 3.8 Location: ~~V2-91-CP~~ W side of Neen Koiaak

Sample Id: D12-3 Weight (kg): 0.98 Depth (m):

D12-3

Mn Crust Description

Surface Texture: abraded - maybe missing some of it?

Mn Crust Thickness (mm):

Min: 23 Max: 50 Ave: 45

Outer to Inner Layers (mm)

	Min	Max	Ave	Texture & Color
1	23	50	40	black; massive
2				porous, sediment in pores
3				some alteration
4				
5				
6				

Comments and XRD Mineralogy:

Subsample No

104g. 24g. 0-45mm

D12-3A CC, XRD, PT, REE Bulk Co

D12-3B OC, XRD, TS Substrate

55.6g

Substrate Description

Rock Type: Basalt ?

Grey

[or phosphatized Sandstone]

Description:

aphanitic Basalt with cracks calcite in cracks and phosphorite around outer edges -

Biology (?):

Described by: JW

Subsampled by: JW