SAMPLE DESCRIPTION

Cruise Id: F10-89-CP Size: 18X14X15 (cm) Location: KARIN SEAMOUNT

Sample Id: D1-21 Weight: 3 (kg) Depth: 1815-1765 (m)

Mn Crust Description

Surface Texture: SMOOTH TO GRANULAR,

Mn Crust Thickness (mm):
Min: 1 Max: 50 Ave: ?

Layers (Outer to Inner)(mm):

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

D1-21
F10-89-CP

Comments and XRD Mineralogy:
OUTER CRUST - GRANULAR & BOTTROIDAL
AVERAGING 5mm THICK - SURFACE
VERY IRREGULAR
MASSIVE Fe-Mn Crust BLACK,
VITREOUS LUSTER; THIN MINUTE veins
OF PHOSPORITE

ANAL

Subsample Number	Analysis	LayerThickness

Substrate Description

Rock Type: Sedimentary breccia

Description:
Clasts of vesicular basalt, moderately altered - grey & yellowish brown, basalt massive completely altered, yellowish; areas of sand-sized volcanic grains cemented by phosphorite; phosphorite clasts, chocolate brown to pale brown; in a dense grey to gray-brown phosphorite cement - some cream colored and in places Mn cement - phosphorite veins and dendrites

Biology ?:

Described By: OLSON Subsampled By: