

Sampling**Powder preparation****Pressed powder pellets (PPP) preparation****Chemical analyses**

Oman Drilling Project
CM site drilling operations,
sampling every 10 m along
cores (on-site samples)

Saw marks and alteration
blemishes removed

Samples ultrasonicated
in deionized water

Crushing and milling
(University of Southampton)

Saw marks and alteration
blemishes removed

Samples ultrasonicated
in deionized water

Crushing and milling
(grain size < 250 μm)

Second step milling
(grain size < 25 μm)

PPP
(38 mm in diameter)

XRF analyses for major
and minor elements

Fine-grained PPP
(18 mm in diameter)

LA-ICP-MS analyses for
(ultra-)trace elements

ICP-MS replicate solution
analyses in shore-based
laboratories for
(ultra-)trace elements