Sample Results Summary Sheet

Please return this form to the Curator for each allocated Sample

Sample ID: RA-QD02-0034

PI: Tomoki Nakamura

Type and date of analysis performed:

XRD	Jan/28/2011~ Feb/3/2011
FE-SEM, FE-EPMA	Feb/19/2011~ Feb/28/2011

Elements or phases identified: (Mg, Si, olivine, pyroxene, aromatic carbon, etc.)

XRD : Ol, LPx, Tr

FE-SEM : Ol, LPx

FE-EPMA : Si, Ti, Al, Fe, Mn, Mg, Ca, Na, K, Cr, Ni, S

Contaminant phases identified: (Al, SUS, carbon particles, etc.)

N/A

Sample handling:

XRD

Attached to carbon fiber with resin.

FE-SEM, FE-EPMA

Exposed in atmosphere.

Polished by M cross

C-coated (20 nm)

State of sample pre-analysis:

Attached to carbon fiber with resin. (XRD)

Polished section with resin embedded (FE-SEM, FE-EPMA)

State of sample post-analysis:

Attached to carbon fiber with resin. (XRD)

Polished section with resin embedded, C-coated (FE-SEM, FE-EPMA)

N_2 hold in sample holder.

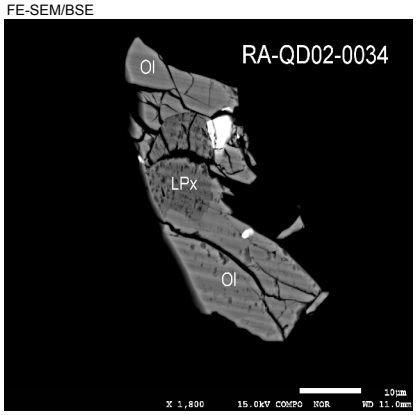
Analysis data Notes: (summary of the attached analysis data and/or images)

See attached sheets.

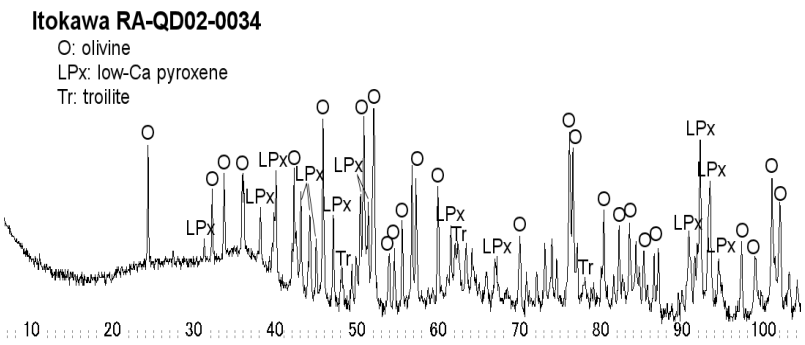
RA-QD02-0034

Analysis	S-XRD (polish) FE-SEM FE-EPMA
Present status	Putted butt with a large hole by FIB sampling

FE-SEM/BSE



S-XRD



FE-EPMA

wt%	Olivine n=5	Ol 1 sigma	LPx n=2	LPx 1 sigma	HPx n=0	HPx 1 sigma	Plagio n=0	Pl 1 sigma
SiO2	36.99	0.25	53.97	0.51				
TiO2	0.02	0.02	0.17	0.03				
Al2O3	0.01	0.01	0.18	0.03				
FeO	25.64	0.25	15.35	0.21				
MnO	0.46	0.02	0.45	0.04				
MgO	36.10	1.44	27.12	0.03				
CaO	0.00	0.00	0.48	0.04				
Na2O	0.02	0.01	0.03	0.00				
K2O	0.01	0.02	0.00	0.00				
Cr2O3	0.00	0.01	0.05	0.02				
NiO	0.01	0.01	0.06	0.00				
P2O5	0.02	0.02	0.00	0.00				
SO3	0.03	0.02	0.04	0.05				
Total	99.31	1.57	97.89	0.66				

SUM

Comment				
Olivine (Fa#)	28.51	0.70		
LPx(Fs#)			23.87	0.26
LPx(Wo#)			0.97	0.08
LPx(En#)			75.17	0.33
HPx(Fs#)				
HPx(Wo#)				
HPx(En#)				
Pl(Or#)				
Pl(An#)				
Pl(Ab#)				