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Supplementary Figure 1: Figure of figure of figure of figure of figure of figure of figure of figure of figure of figure of figure of figure of figure

Supplementary Figure 2: Figure of figure of figure of figure of figure of figure of figure of figure of figure of figure of figure of figure of figure

Supplementary Table 1: Table of table of table of table of table of table of table of table of table of table of table of table of table of table of table of table

Bulk and Clay XRD data											
Core ID	wt % of Non- Clay Minerals							wt % Clay Minerals			
	Q	Cc. Mg	Dol	Olig	Bio.	Mic.	Amor	Chl.	Ill.	Kao	T. C.
D-2- 5	78.3	4.6	1.4	6.4	0.1	0.8	4.0	2.0	2.3	0.1	4.45
D-2- 6	83.8	0.2	0.3	6.7	0.0	1.0	4.0	1.0	2.5	0.5	4.04

Q: quartz; Cc: Mg- Calcite; Dol: dolomite; Olig: oligoclase; Bio: biotite; Mic: mica; Amor: amorphous; chl: chlorite; ill: illite; kao: kaolinite, T.C: total clay minerals