

Table 1: General Data File

Input Parameter	Units	Source
Start Year	Year	Perakis and Sinkhorn, 2011
End Year	Year	Calibration
Nb Layers	N/A	Calibration
Nb Minerals	N/A	Franklin 1980; Anderson et al., 2002
Mineral names	N/A	Franklin 1980, Anderson et al., 2002, NCRS samples.
OA pka	N/A	Past Calibration
Aluminum	N/A	Past Calibration
Phosphoric Acid	N/A	Past Calibration
DIC	N/A	Past Calibration
Organic acid size	Carbon/Charge	Calibration
Nb Tree comp*	N/A	Stand Assumption
Anion Adsorption isotherms	N/A	Calibration