data homogenization processing summary and QC check results: NEON_initialChar

notes included with key file:

source	Var_long	var	var_notes
location	Google Directory		NEON_initialChar
location	Network (e.g. LTER, CZO, DIRT, NutNet, etc)	network	NEON
profile	Site code (e.g. LUQ) or name	site_code	siteID is the unique location identifier, can be used to join to climate data (I already did this)
profile	Location name	location_name	WW created this, also useful to use siteID for location name
profile	Experimental Level 1(top level)	L1	plotID is the unique plot/profile identifier, can be used to join to physiographic data (I already did this)
profile	Mean Annual Precipitation	map	PRISM 30-yr normal averaged for entire NEON site, calculated May 2017
profile	Mean Annual Temperature	mat	PRISM 30-yr normal averaged for entire NEON site, calculated May 2017
profile	Coarse Fraction Size Threshold Used	coarse_tot	ww created this column to read in profile data

files processed:

type	filename
provided data	initialChar_all
homogenized data	initialChar_all_HMGZD

variable conversion

source	var	Var_long	given_unit	target_unit	factor	varNotes
profile	lyr_c_tot	Bulk Layer Total Carbon, not acid treated to remove inorganic C	percent	g kg-1	0.1	converted
profile	lyr_soc	Bulk Layer Organic Carbon (CN analyzer) concentration, inorganic C removed or not present	percent	g kg-1	0.1	converted
profile	lyr_n_tot	Bulk Layer Total Nitrogen concentration	percent	g kg-1	0.1	converted
profile	caco3	Calcium Carbonate	percent	g kg-1	0.1	converted
profile	p_ex_1	Extractable Phosphorus_1	mgP/g	mg kg-1	0.001	converted
profile	p_ex_2	Extractable Phosphorus_2	mgP/g	mg kg-1	0.001	converted
profile	p_ex_3	Extractable Phosphorus_3	mgP/g	mg kg-1	0.001	converted

source	var	Var_long	given_unit	target_unit	factor	varNotes
profile	p_ex_4	Extractable Phosphorus_4	mgP/g	mg kg-1	0.001	converted
profile	lyr_fe_ox	Oxalate Extractable Fe	mg/g	%	10	converted
profile	lyr_al_ox	Oxalate Extractable Al	mg/g	%	10	converted
profile	lyr_si_ox	Oxalate Extractable Si	mg/g	%	10	converted
profile	lyr_fe_dith	Dithionite Extractable Fe	mg/g	%	10	converted
profile	lyr_al_dith	Dithionite Extractable Al	mg/g	%	10	converted
profile	lyr_si_dith	Dithionite Extractable Si	mg/g	%	10	converted
profile	clay	Clay	%	percent		NOT converted
profile	coarse_frac	Coarse Fraction	%	percent		NOT converted
profile	sand	Sand	%	percent		NOT converted
profile	silt	Silt	%	percent		NOT converted
profile	layer_bot	Layer Bottom	cm	cm		NOT converted
profile	layer_top	Layer Top	cm	cm		NOT converted
profile	coarse_tot	Coarse Fraction Size Threshold Used	mm	mm		NOT converted
profile	map	Mean Annual Precipitation	mm	mm		NOT converted

QC results: location data

`location data checks passed`

QC results: profile data, data range

var	min	max	minValue	maxValue	error
bd_samp	0.06	1.97	0.1	2	out of range
coarse_tot	20	20	0	10	out of range
caco3	0	104	0	100	out of range

QC results: profile data, data type

profile data type checks passed