Table S1: Methods of analysis used by ALS [20].

Analyte	NATA Method
Alkalinity	WD037
Chloride	WD045G
Ion Balance	# APHA 1030E
MS Soluble Metals	WG020A
MS Total Metals	WG020A
NH3 as N (DA)	WK055G
NO3-N	EK058GV
SO4 DA	WD041G
Ca^{2+}, Mg^{2+}, K^+, and Na^+	WG005A; EA065-69
TDS at 180°C +/- 5°C	WA015

Table S2: R studio packages used throughout analysis.

Bar graphs	ggplot2	Data frame assembly	BiocManager
	RColorBrewer		dada2
			phyloseq
Statistics	edgeR		DECIPHER
	fossil		DESeq2
	adespatial		doParallel
	ade4		R.utils
	devtools		dplyr
	Vegan		tidyverse
	tidyverse		
			tibble
CCA	vegan		readxl
	RColorBrewer		tidyr