

Appendix 1. Soil chemical composition before and after amendment.

Metals were measured intensively in soils throughout the contaminated zone of Liberty State Park in 2005 (Table S1). The site used for this study was identified as TP-14 in prior papers (Gallagher et al. 2008a, Gallagher et al. 2008b, Qian et al. 2012, Dahle et al. 2014). Three samples were collected (not composited) at each of 32 sites during the 2005 sampling effort. The total metal load (TML) at TP-14 was found to be among the highest in the contaminated zone (TML = 3.08; Gallagher et al. 2008a).

Soil chemistry was evaluated at the study site both before and after amendments were applied (Figure S1). Sampling took place in March and July 2011, and amendments were applied in May 2011. In March 2011, composite samples were collected from three locations (4 m apart) in the site to describe the soils as a whole. Each composite sample consisted of five sub-samples, which were spaced 1 m apart. In July 2011, one composite sample (n = 5 sub-samples) was collected from the amended area beneath each of the eight trees used in the study. All chemical analyses were performed by the Rutgers Soil Testing Laboratory.

Table S1. Soil metal concentrations at the study site (TP-14) when measured intensively in 2005.

Element	Concentration (mg kg⁻¹; mean ± SE)
Al	0.61 ± 0.18
As	181 ± 33
Cr	85 ± 43
Cu	224 ± 37
Hg	0.29 ± 0.08
Na	5 ± 0.9
Pb	926 ± 337
Zn	37 ± 11
V	73 ± 43

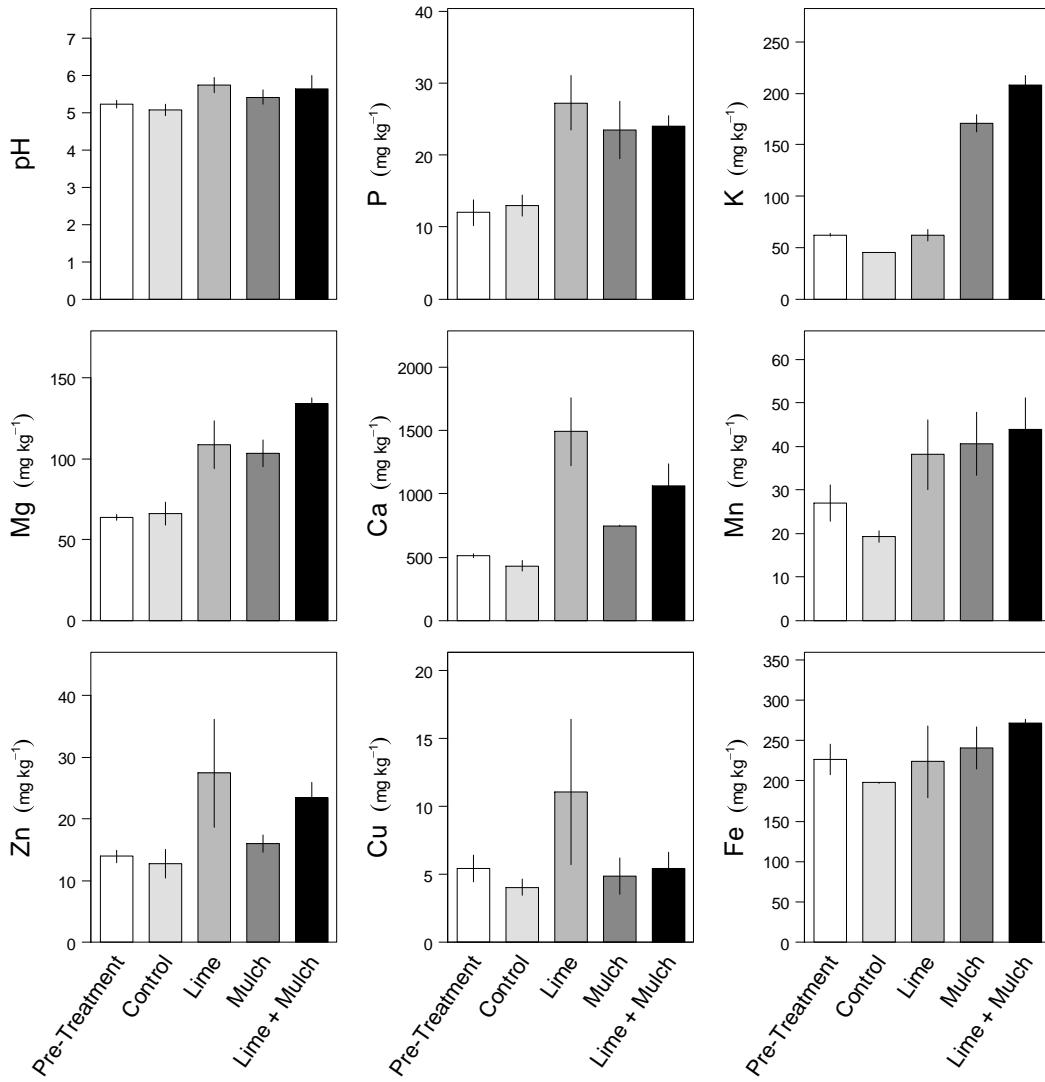


Figure S1. Soil chemical compounds (mean \pm SE) found at the study site where lime and mulch amendment took place. *Pre-Treatment* refers to March 2011.

References

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