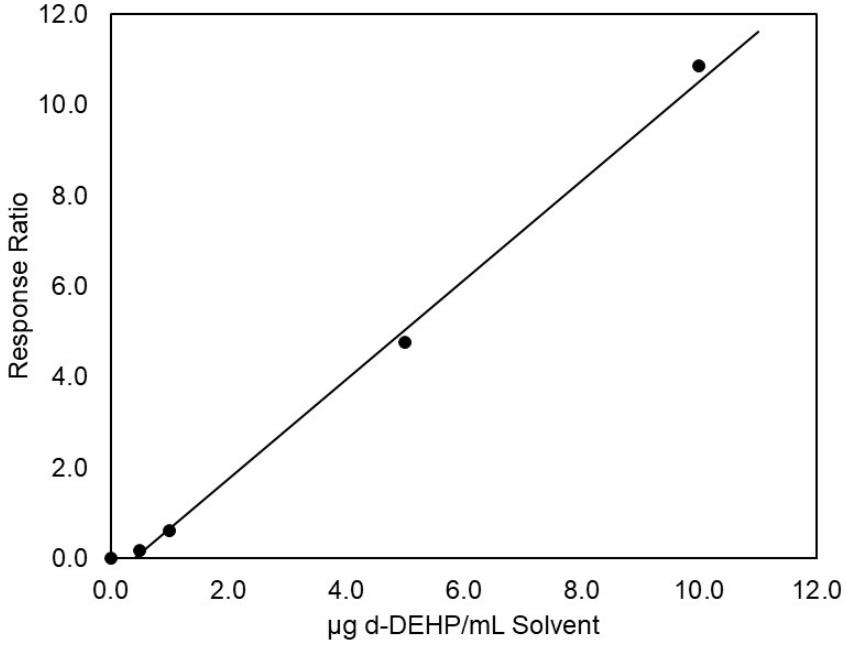
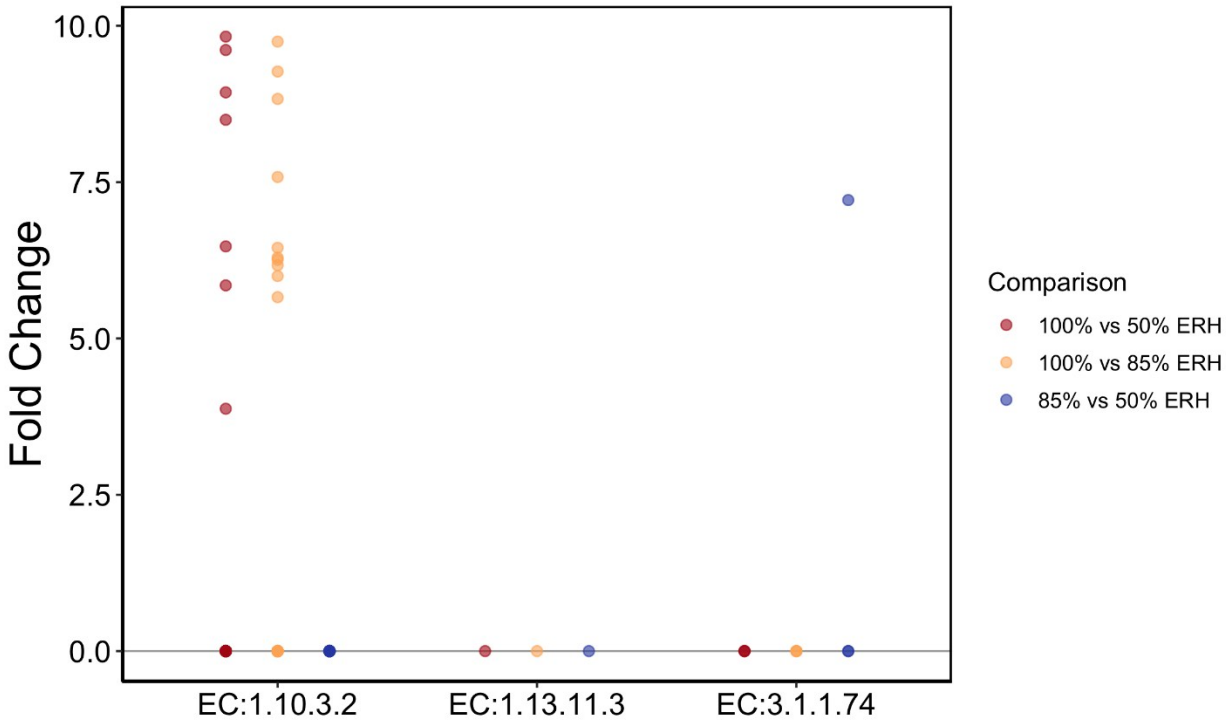
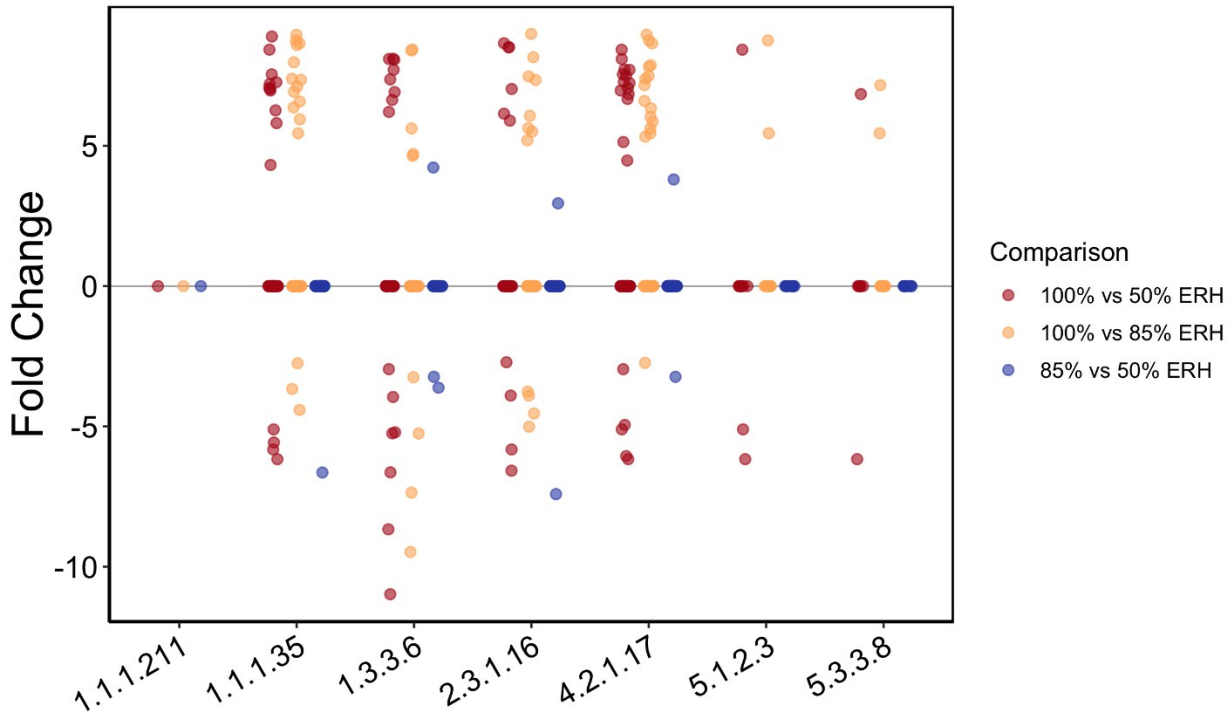
Electronic Supplementary Material (ESI) for Environmental Science: Processes & Impacts.



SI Figure 1. Standard calibration curve for detection of d-DEHP in the spiked experiments. The equation of the calibration line is Y = -0.41982+1.09325*X and R^2 = 0.9971. The response ratio is generated using the ratio of the of d-DEHP peak area to the benzyl benzoate internal standard peak area.



SI Figure 2. Differential expression of genes with known phthalate degradation potential. All contigs with $\log_2$ fold changes not equal to zero are considered differentially expressed ($p_{adj} \leq 0.05$). Contigs with $\log_2$ fold changes not found to be statistically significant are plotted at zero. Log_2F changes greater than zero indicate that contigs at 100% ERH are more highly expressed than at 50% ERH (100% vs 50% ERH in red) or 85% ERH (100% vs 85% ERH in orange). Similarly, $\log_2F$ changes greater than zero indicate that contigs at 85% ERH are more highly expressed than at 50% ERH (85% vs 50% in blue). EC:1.10.3.2 is the enzyme commission number for laccase, EC:1.13.11.3 is for E10 3,4-protocatechuate deoxygenase, and EC:3.1.1.74 is for cutinase.



SI Figure 3. Differential expression for genes in the β-oxidation pathway that were found in the metatranscriptome. All contigs with $\log_2$ fold changes not equal to zero are considered differentially expressed ($p_{adj} \leq 0.05$). Contigs with $\log_2$ fold changes not found to be statistically significant are plotted at zero. Log_2F changes greater than zero indicate that contigs at 100% ERH are more highly expressed than at 50% ERH (100% vs 50% ERH in red) or 85% ERH (100% vs 85% ERH in orange). Similarly, $\log_2$F changes greater than zero indicate that contigs at 85% ERH are more highly expressed than at 50% ERH (85% vs 50% in blue).