



Supplementary File S2, figure: TEM images of 30 nm ZnO NP analysed from the storage container at the beginning of the experiments. These are identical particles to those used in Heggelund et al 2014; Nanoparticles sampled from (a) the top and (b) bottom of storage container, (c) is the original TEM image from Heggelund et al 2014.

Supplementary File S2, table: Characterisation data for ZnO NP with XRD, BET and density measurements.¹

| Measurement type | ZnO NP measurement |
|--|-------------------------------|
| Average crystalline size from Scherrer's formula (XRD) | a = 25 nm, c = 27 nm |
| Grain size from SSA BET | 29 nm |
| Specific Surface Area (BET) | 38 m ² /g |
| Density | 5.52 ± 0.05 g/cm ³ |
| Zeta potential in DI water | 20.7 ± 2 mV |

1. L. R. Heggelund, M. Diez-Ortiz, S. Lofts, E. Lahive, K. Jurkschat, J. Wojnarowicz, N. Cedergreen, D. Spurgeon and C. Svendsen, Soil pH effects on the comparative toxicity of dissolved zinc, non-nano and nano ZnO to the earthworm *Eisenia fetida*, *Nanotoxicology*, 2014, **8**, 559-572.