

SUPPLEMENTAL MATERIAL
APPLIED AND ENVIRONMENTAL MICROBIOLOGY

**Detection and Quantification of *Geobacter lovleyi* Strain SZ: Implications for
Bioremediation at Tetrachloroethene- (PCE-) and Uranium-Impacted Sites**

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TABLE S1. Summary of the effect of *Geobacter* (formerly *Trichlorobacter*) *thiogenes* genomic DNA on qPCR estimation of *Geobacter lovleyi* strain SZ cell numbers.

<i>G. thiogenes</i> DNA (ng/μl) ^a	Dilution of <i>G. lovleyi</i> strain SZ DNA ^b	<i>G. lovleyi</i> cells per ml ± SD ^c	N/N ₀ ^d
0	Undiluted (12.5 ng/μl)	1.42 ± 0.06 x 10 ⁸	0.94
0	1:10	1.59 ± 0.15 x 10 ⁸	1.06
0.32	1:10	1.61 ± 0.09 x 10 ⁸	1.07
0.64	1:10	1.73 ± 0.05 x 10 ⁸	1.15
0.97	1:10	1.72 ± 0.05 x 10 ⁸	1.15
1.29	1:10	1.73 ± 0.10 x 10 ⁸	1.15
1.61	1:10	1.72 ± 0.10 x 10 ⁸	1.14
4.03	1:1.33	2.10 ± 0.19 x 10 ⁸	1.39
5.36	1:1.5	2.24 ± 0.12 x 10 ⁸	1.49
8.05	1:2	2.68 ± 0.19 x 10 ⁸	1.78

^a Calculated concentration after dilution of 16.1 ng/μl of *G. thiogenes* genomic DNA (estimated spectrophotometrically at 260 nm) with known volume(s) of strain SZ genomic DNA and/or sterile water.

^b Dilution of 12.5 ng/μl *G. lovleyi* strain SZ genomic DNA (concentration estimated spectrophotometrically at 260 nm) with known volume(s) of *G. thiogenes* genomic DNA and/or sterile water.

^c The estimated number of *G. lovleyi* cells per ml of culture fluid (average of triplicate samples ± standard deviation [SD]) based on qPCR analysis. The estimate takes into account the dilution of strain SZ genomic DNA, the volume (10 ml) of culture from which DNA was extracted, the final volume (200 μl) of extracted DNA, and that two 16S rRNA gene copies are present on the genome of strain SZ.

^d N/N₀ represents the ratio of the estimated number (N) of *G. lovleyi* cells per ml of culture fluid to the average of the two cell estimates in the absence of *G. thiogenes* DNA (i.e., N₀ = 1.50 ± 0.11 x 10⁸ cells per ml).