

Table S3. Estimates of 16S rRNA gene copies using bacterial-archaeal primers S-D-Arch-0519-a-S-15 and S-D-Bact-0785-b-A-18 (Klindworth et al., 2012). R1, R2: petro F76; R3, R4: FT-F76; R5, R6: 1:1 mix of petro- and FT-F76; R7, R8: no added fuel. “-ph1”: Water samples taken day 400 after inoculation, immediately prior the addition of sediment. “-ph2”: Water samples taken day 764 after inoculation. Coupon and Sediment samples were taken 764 days after inoculation. \*: added sediment was not treated by autoclaving. NT: not tested. See materials and methods for more information.

Reactor	Water-ph1 (#/mL)		Water-ph2 (#/mL)		Coupon (#/g)		Sediment (#/g)	
	Avg	± 1 STD	Avg	± 1 STD	AVG	± 1 STD	Avg	± 1 STD
<b>R1* petro-F76</b>	$2.09 \times 10^3$	$7.82 \times 10^2$	$2.75 \times 10^4$	$2.45 \times 10^3$	$1.50 \times 10^6$	$8.79 \times 10^4$	$8.13 \times 10^5$	$3.25 \times 10^5$
<b>R2 petro-F76</b>	$2.60 \times 10^5$	$1.76 \times 10^4$	$2.02 \times 10^5$	$1.27 \times 10^4$	$4.77 \times 10^5$	$5.90 \times 10^4$	$1.58 \times 10^5$	$2.60 \times 10^4$
<b>R3* FT-F76</b>	$6.78 \times 10^4$	$6.24 \times 10^3$	$9.82 \times 10^4$	$5.23 \times 10^3$	$2.61 \times 10^6$	$2.15 \times 10^5$	$2.18 \times 10^6$	$1.11 \times 10^6$
<b>R4 FT-F76</b>	$6.26 \times 10^3$	$8.11 \times 10^2$	$1.48 \times 10^5$	$3.41 \times 10^3$	$1.80 \times 10^6$	$6.63 \times 10^5$	$2.13 \times 10^6$	$1.48 \times 10^5$
<b>R5* fuel mix</b>	$1.59 \times 10^4$	$7.00 \times 10^3$	$2.23 \times 10^5$	$1.69 \times 10^4$	$3.09 \times 10^6$	$1.99 \times 10^5$	$2.38 \times 10^6$	$7.03 \times 10^5$
<b>R6 fuel mix</b>	$1.83 \times 10^5$	$6.01 \times 10^4$	$1.61 \times 10^5$	$9.86 \times 10^3$	$2.98 \times 10^5$	$1.01 \times 10^5$	$1.28 \times 10^6$	$1.24 \times 10^5$
<b>R7* no fuel</b>	$6.98 \times 10^4$	$2.51 \times 10^4$	$1.76 \times 10^5$	$5.50 \times 10^4$	$7.87 \times 10^6$	$3.23 \times 10^6$	NT	NT
<b>R8 no fuel</b>	$1.80 \times 10^5$	$2.48 \times 10^4$	$3.72 \times 10^4$	$7.68 \times 10^3$	$1.97 \times 10^6$	$3.53 \times 10^5$	$5.16 \times 10^6$	$2.55 \times 10^5$