Experiment 1: Microbial community composition Dominant benthic community Relative Time points abundance (%) Treatments 25 Holophagae Acanthopleuribacterales 20 Thermoanaerobaculia Thermoanaerobaculales 15 Bacteroidia Bacteroidales 10 Bacteroidia Chitinophagales Bacteroidia Cytophagales Bacteroidia Flavobacteriales Bacteroidia SM1A07 Bacteroidia Sphingobacteriales 0.1 Anaerolineae SBR1031 Melainabacteria Vampirovibrionales Treatments Oxyphotobacteria Eurycoccales Ambient-Open Oxyphotobacteria Nostocales Enriched-Open Oxyphotobacteria Phormidesmiales Ambient-Caged Oxyphotobacteria Synechococcales Enriched-Caged Oxyphotobacteria unclassified Campylobacteria Campylobacterales Time (days) Bacilli Bacillales 2 Fusobacterija Fusobacteriales 14 Kiritimatiellae WCHB1-41 Lentisphaeria Lentisphaerales 28 42 Gracilibacteria_Absconditabacteriales (SR1) BD7-11 unclassified 56 Phycisphaerae Phycisphaerales 70 Planctomycetacia Pirellulales vadinHA49 unclassified Benthos Alphaproteobacteria Caulobacterales Bare Alphaproteobacteria_Kordiimonadales FAM Alphaproteobacteria Micavibrionales CCA & EAM Alphaproteobacteria Parvibaculales CCA Alphaproteobacteria Rhizobiales Long turf Alphaproteobacteria Rhodobacterales Macroalgae Alphaproteobacteria Rhodospirillales Thick turf Alphaproteobacteria Rhodovibrionales Turf Alphaproteobacteria Sphingomonadales Alphaproteobacteria_unclassified Phylum Deltaproteobacteria Bdellovibrionales Acidobacteria Deltaproteobacteria Bradymonadales Racteroidetes Deltaproteobacteria Myxococcales Chloroflexi Deltaproteobacteria PB19 Gammaproteobacteria Alteromonadales Cyanobacteria Gammaproteobacteria Arenicellales Epsilonbacteraeota Gammaproteobacteria Beggiatoales Firmicutes Gammaproteobacteria Betaproteobacteriales Fusobacteria Gammaproteobacteria_Cellvibrionales Kiritimatiellaeota Gammaproteobacteria Oceanospirillales Lentisphaerae Gammaproteobacteria SAR86 clade Patescibacteria Gammaproteobacteria Steroidobacterales Planctomycetes Gammaproteobacteria Vibrionales Proteobacteria Gammaproteobacteria unclassified Verrucomicrobia Verrucomicrobiae Opitutales unclassified Verrucomicrobiae_Verrucomicrobiales Bacteria