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RPT159-QN02

Status Update: DNA Sequencing of Seawater eDNA from the Scotian Shelf

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Status Update

DNA was extracted and quantified from the 180 seawater samples and 59 field blanks submitted to CEGA. 171/180 seawater samples yielded quantifiable DNA, with a median DNA concentration of 1.26 ng/µL (range: 0.101 – 21.721 ng/µL). 5/59 of the field blanks had quantifiable DNA concentrations while negative laboratory controls added during the metabarcoding procedure were all below the quantification limit (<0.1 ng/µL).

DNA sequencing was completed with a total of 2,235 million raw DNA sequence reads generated across three markers and an average of 91.25% of bases with quality scores $\geq Q30$ across all samples and markers. Q30 is a benchmark for quality in next-generation sequencing indicating an accuracy of 99.9%. Per sample, a median of 10.6 million raw DNA sequence reads were recovered across the three markers.

Appendix A: Supplementary Files

Table A1 Supplementary files

List all supplementary files to be shared with the report.

File Type	File Name
Table	RPT159-QN02 Supplementary Table 1 R1 DNA Concentrations by Sample.