

## Peirce Island, NH Wastewater Treatment Facility SARS-CoV-2 Biomarker Results Summary

Report Date: December 21st, 2022

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### Dates Sampled for this Monitoring Period:

Tuesday, October 4th, 2022
Monday, October 10th, 2022
Tuesday, October 18th, 2022
Tuesday, October 25 <sup>th</sup> , 2022
Tuesday, November 1st, 2022
Monday, November 7 <sup>th</sup> , 2022
Monday, November 14 <sup>th</sup> , 2022
Sunday, November 20 <sup>th</sup> , 2022
Monday, November 28 <sup>th</sup> , 2022
Monday, December 5 <sup>th</sup> , 2022
Monday, December 12 <sup>th</sup> , 2022

**Method:** A 24-hour composite sample was taken on the date shown above. This sample was preprocessed and extracted using a solids separation, Ceres Nanoscience viral concentration, and Kingfisher extraction approach. The N1 viral marker was quantified via QIAcuity dPCR.

**Results:** SARS-CoV-2 N1 was detected (LOD=250 copies/100 ml) for this sample at the levels reported in Table 1.

**Table 1:** Sample date and biomarker results. "BDL" represents values below the quantified limits of instrument detection of 250 copies/100 mL wastewater.

SARS-CoV-2 Biomarkers	
Sample Date	N1 copies/100mL
10/4/2022	1331
10/10/2022	1654
10/18/2022	1968
10/25/2022	1212
11/01/2022	1138
11/07/2022	1103
11/14/2022	1260
11/20/2022	649
11/28/2022	1328
12/05/2022	1258
12/12/2022	5098

