

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

Report Date: July 7, 2022; Sampled by: PC, July 5, 2022  
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**Dates Sampled for this Monitoring Period:**

Tuesday, July 5, 2022*
Tuesday, June 28, 2022
Tuesday, June 21, 2022
Tuesday, June 14, 2022
Tuesday, June 7, 2022

\*New samples since last report

**Method:** A 24-hour flow weighted composite sample was taken from July 4-5, 2022. This sample was preprocessed and extracted using a solids separation, Ceres Nanoscience viral concentration, and Kingfisher extraction approach. Two viral markers (N1 and N2) were quantified via Bio-Rad QX200 ddPCR.

**Results:** Both of the SARS-CoV-2 N1 and N2 viral biomarkers were detected (LOD=172 copies/100 ml) for the composite sample taken July 4-5, 2022. Biomarkers levels noticeably decreased over the previous sample, but levels suggest continued SARS-COV-2 prevalence within the community served by the treatment facility.

**Table 1:** Sample date and biomarker results. "BDL" represents values below the quantified limits of instrument detection of 172 copies/100 mL wastewater.

Sample Date	SARS-CoV-2 Biomarkers	
	N1 copies/100mL	N2 copies/100mL
07/05/2022*	668	896
06/28/2022	2,572	2,712
06/21/2022	523	644
06/14/2022	BDL	BDL
06/07/2022	598	633

\*New samples since last report

For more detailed information regarding local, county, and statewide COVID-19 infections, please refer to the data reported through the New Hampshire Division of Health and Human Services website <https://www.covid19.nh.gov/dashboard>.