



NSF Research Coordination Network: Wastewater Surveillance for SARS-CoV-2

PRIMARY WASTEWATER SLUDGE SAMPLE SHARING

Please e-mail completed forms to mengstro@asu.edu

In order to expedite protocol validation and increase access to wastewater sludge samples, the NSF Research Coordination Network (“RCN”) on Wastewater Surveillance for SARS-CoV-2 is offering **primary wastewater sludge samples to interested research groups**.

Purpose:

- To increase access to wastewater sludge samples among labs working on SARS-CoV-2 wastewater surveillance
- To expedite method development & optimization by use of samples with known value

Sample description:

Interested labs will be provided with a ~40mL primary sludge sample (“Material”) that was generated as follows: A single sludge sample from a primary clarifier at an anonymous wastewater treatment plant was collected and shipped overnight on ice to Arizona State University. The sample was then homogenized, aliquoted into ~40mL volumes, and stored at -20 °C. SARS-CoV-2 RNA concentrations were measured in the original solids sample and frozen stored aliquots. You will be provided with this data in order to benchmark your sample processing.

Sample request process:

To request samples, please fill in the below information and email this form to the email address provided above. You will then be contacted by a member of the RCN Steering Committee to process your request. While we aim to fill as many requests as possible, a limited number of samples and funds are available to fill requests. Therefore, requests for samples will be evaluated on a first-come first-served basis.

Labs requesting samples will be provided with a description of the methods used and previously detected SARS-CoV-2 concentrations of the sample they receive. Note that samples will be provided & shipped free of charge, but labs must already have funds available for sample processing & analysis. ***We also expect that labs will report back their own concentration measurements in the provided samples to the RCN*** for inter-lab comparisons. Data should be reported back ***within 1 month of sample receipt***, and a template spreadsheet will be provided for this purpose. Labs providing their data will be credited in any products generated from this analysis. If labs are not able to detect SARS-CoV-2 within the expected range, the RCN steering committee will consult with the labs to provide suggestions for method improvement.

For questions, please contact Rolf Halden (rolf.halden@asu.edu) and Melanie Newell (menstro@asu.edu)

PRIMARY WASTEWATER SLUDGE SAMPLE REQUEST FORM ("SRF")

Please e-mail completed forms to mengstro@asu.edu

The form will be reviewed by the NSF RCN Steering Committee

Samples are provided by the ASU Human Health Observatory sample repository

Date																
Lead investigator contact info	<table border="1"><tr><td>Last name</td><td></td></tr><tr><td>First name</td><td></td></tr><tr><td>Email address</td><td></td></tr><tr><td>Title</td><td></td></tr><tr><td>Institution</td><td></td></tr></table>		Last name		First name		Email address		Title		Institution					
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Primary laboratory contact & shipping info <i>The address and contact information provided here will be used for sample shipping. Please verify that information is complete and accurate.</i>	<table border="1"><tr><td>Last name</td><td></td></tr><tr><td>First name</td><td></td></tr><tr><td>Email address</td><td></td></tr><tr><td>Title</td><td></td></tr><tr><td>Institution</td><td></td></tr><tr><td>Complete Mailing Address</td><td></td></tr><tr><td>Telephone #</td><td></td></tr></table>		Last name		First name		Email address		Title		Institution		Complete Mailing Address		Telephone #	
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Location <i>Where will samples be analyzed?</i>																
Brief description of research <i>1-2 sentences that may be shared on the NSF RCN webpage or other materials</i>																

Research background & rationale for sample request <i>Relevant background and justification for the wastewater SARS-CoV-2 analysis being performed in your laboratory. Please also describe why RCN sludge samples are needed and methods to be used.</i>	
How many sample aliquots would you like to receive? <i>Our ability to provide more than one aliquot will depend on available supply and the overall number of requests.</i>	☐ 1 ☐ 2 ☐ 3

Please verify the following:

- ☐ Samples should serve for method validation only and should not be used for further commercial purposes or resale.
- ☐ Samples will be shipped from Arizona State University. Sample recipient understands that it is his/her responsibility to track the shipment using the provided tracking information and promptly store samples upon their arrival.
- ☐ Sample recipient has appropriate biosafety approval from his/her institution to work with primary wastewater sludge samples and can provide the approval date and documentation to the RCN as requested.
- ☐ Sample recipient has appropriate funding already secured to analyze the provided sample(s).

☐ Sample recipient will share the results of RCN sample testing with the RCN steering committee and will acknowledge the RCN in any publications resulting from these samples.

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