



Rowan University

Lead Sampling Plan

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The purpose of this document is to outline the procedures that will be followed to assure the availability of potable drinking water in each building on campus in accordance with the Safe Drinking Water Act, NJSA 58:12A-1. Water that is supplied to the campus is provided by the Borough of Glassboro which has independent testing requirements to ensure compliance with the Safe Drinking Water Act. Once the water reaches campus, old supply lines underground and in buildings are at the risk of lead contamination from aging pipes and plumbing fixtures. As such, the focus of this sampling plan is lead.

Rowan will be partnering with Pennoni Associates Inc. as an independent consultant to provide the sampling and Test America Laboratories, a certified laboratory to provide the analysis. The sampling will be conducted in general accordance with the NJDEP's technical guidance documents for water sampling in public school districts.

1. Conduct Comprehensive Evaluation of Each Building on Campus

Each building on campus will be evaluated for lead-contaminated drinking water in accordance with the recently promulgated amendments to NJAC 6A:26. This evaluation will be completed as follows:

- a. Sampling will be managed by an independent consultant that is a Certified Industrial Hygienist and a New Jersey certified Lead Inspector and Risk Assessor.
- b. A plumbing survey will be completed for each building that will identify how water enters and flows through each building, the types of plumbing materials used in the building, the identification of water outlets where students or staff may have access and any point of use treatment such as drinking water filters. Drinking fountains will be evaluated to determine if they are on the EPA's recall list. Additionally, the survey will document filter information in each building if present. The plumbing profile documents provided by the NJDEP will be used for this task.
- c. Samples in each building (for drinking water and/or food prep) will be collected after water throughout the building has remained undisturbed for at least 8 hours but no more than 48 hours. If water has sat for an extended period of time (not under normal use), the outlets will be flushed for 15 minutes approximately 48 hours prior to sampling. One sample will be collected immediately with no flushing and a second sample will be collected after a 30 second flush. To ensure water sits for a minimum of 8 hours, buildings will be secured each evening. Essential personnel will be provided instructions (verbally or in writing) stating water use is not permitted (unless there is an emergency) the evening prior to sampling. Samples collected in dormitory style buildings will be completed during the Thanksgiving or Christmas break when the buildings are not occupied.
- d. Any existing aerators, screens, and filters will not be replaced or removed prior to sampling.

- e. Drinking water fountains that contain a chiller will be flushed for 15 minutes prior to collecting a follow-up flush sample and the flushing will be conducted after all first draw samples are collected in a particular building.
- f. Samples will be collected by the independent consultant in pre-cleaned high-density polyethylene (HDPE) 250 milliliter (ml) wide mouth containers that are properly labeled and under strict Chain of Custody. Sample locations will be labeled and mapped following the NJDEP technical guidance documents.
- g. Samples will be promptly delivered to a laboratory certified pursuant to the provisions of NJAC 7:18.
- h. Samples will be analyzed by Method 200.8 (ICP-MS) an approved method pursuant to the Federal Safe Drinking Water Act of 40 CFR 141.23(k)(1), with the expectation of results within 48 hours from arrival at the laboratory.
- i. Upon receiving sample results, the University will turn off outlets with results that greater than 15 ug/L. If the location must remain on for non-drinking purposes, a “DO NOT DRINK – SAFE FOR HANDWASHING ONLY” sign will be posted. Outlets for consumption or for food preparation may have a NSF certified filter system installed as a temporary measure prior to initiating a more permanent solution (i.e. replacement of plumbing fixtures and/or components).

2. Evaluate Water Mains

A systematic sampling of mains throughout campus will be completed. This will be helpful in determining which mains on campus may need to be considered for replacement, rerouting, or modification in whole or part as well as identifying the condition of water coming onto campus. Rowan University has worked with the Glassboro Water Department, and will continue to do so, to collect water samples from the closest service connection to the buildings.

The following steps will be completed:

- a. Prepare and review a campus-wide plan indicating location of water mains servicing buildings on campus.
- b. Identify which mains service each building in order to develop an adequate sampling plan. Identify, if possible, the material and age of the main.
- c. Identify available sample locations (hydrants, taps, spigots) for each individual water main. Samples will be collected at point of entry into buildings if possible. Most buildings on campus do not have a sampling point at the point of entry. Samples will be collected in each building at the closest potable water outlet to the point of entry.

- d. One sample will be collected after sufficient flushing to ensure water that is sampled is directly from the main at that location.
- e. Samples will be collected in pre-cleaned high-density poly-ethylene (HDPE) 250 milliliter (ml) containers that are properly labeled and under strict Chain of Custody.
- f. Samples will be promptly hand delivered to a laboratory certified pursuant to the provisions of NJAC 7:18.
- g. Samples will be analyzed by Method 200.8 (ICP-MS) an approved method pursuant to the Federal Safe Drinking Water Act of 40 CFR 141.23(k)(1), with the expectation of results within 48 hours.