



RK Occupational & Environmental Analysis Inc

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Health/Safety and
Environmental
Regulatory
Compliance

October 31, 2017

Mr. Roy Aull
Supervisor of Building & Grounds
Hanover Township Board of Education
61 Highland Ave.
Whippany, NJ 07981-1399

Right-To-Know

OSHA/EPA/DOT
Training Programs

re: **Water Sampling for Compliance with N.J.A.C. 6A:26-12.4
Lead in Drinking Water
Follow-Up Sampling in Kitchens at both Schools**

Asbestos and Lead
Management

Dear Mr. Aull,

Industrial Hygiene/
OSHA Compliance

This addendum includes information on follow-up water sampling that was conducted in the Mountview and Memorial Junior Schools on October 19, 2017. These two locations had earlier sample results that exceeded the 0.015 mg/l (15 PPB) standard.

Indoor Air Quality

The plumbing fixtures were replaced at each location at the Mountview School and re-test sample results show lower concentrations of Lead on the "1st-Draw" sample and no detectible levels of Lead present in either "Flushed" water samples.

Underground/
Aboveground
Storage Tanks

The sink in the Home Economics Room at the Memorial Junior School was cleaned and flushed the day before the sampling but still shows elevated lead content at 0.027 mg/L (27 PPB) on the First-Draw water sample. This sink should remain turned off and not used until it can be replaced and re-tested with acceptable results.

Environmental
Site Assessment

If you have any questions, please don't hesitate to call us.

Hazardous/
Medical Waste
Management

Sincerely,

Pat McGuinness

Patrick D. McGuinness, MS, P.E.
Vice President

Environmental
Audits

Attachment

(file ... \Proposal\WaterTest\Hanover Twp Schools-addendum 1)

Expert Witness/
Litigation Support

Customized
Software

Sampling Report - Lead in Drinking Water
Hanover Township Board of Education

1. Sampling Results Summary

Sample Collection Date	October 19, 2017
Number of Buildings Sampled	2
Total Number of Samples Collected	6
Number of Samples with No Detectible Lead	2
Number of Samples Exceeding 15 ppb (0.015 mg/L) Standard	1

2. Water Sampling Results and Discussion

Sampling results are discussed below. Water sampling logs and the complete laboratory analytical report are appended to this report. All results are expressed as milligrams of Lead per liter of water (mg/L) and compared against the current 0.015 mg/L Action Level. Results could also be expressed in equivalent terms of parts per billion (ppb) where the Action level translates to 15 ppb.

Following the procedures outlined in the project Sampling Plan, a two-step sampling procedure was used at each of the three water outlets. As before, a “1st-Draw” water sample was collected at each outlet after the water was allowed to sit overnight in the piping at least 8 hours prior to collecting the water sample. A “Flushed” water sample was then collected after the water tap was run for about 2 minutes. The purpose of this sample is to represent the water in the piping upstream of the tap itself which is often the source of Lead in the brass components of the fixture.

Mountview School: The two (2) water outlets were sampled after both had been either replaced, or cleaned and flushed in the days before sample collection. Sample results for both outlets showed acceptable results for the 1st-Draw samples and No Detectible levels of Lead present in either Flushed water sample.

Memorial Junior School: The sink located on the far right of the Home Economics Room 613 was sampled after it was cleaned and flushed in the days before sample collection. The sample results for the 1st-Draw water showed a Lead content of 0.027 mg/L, still in excess of the 0.015 mg/L standard. Although the Flushed sample results showed acceptable results, it is recommended that the sink be turned off and not used.

It is interesting to note that although the other sinks located along the same wall had acceptable results, their measured Lead content approached the 0.015 mg/L standard. If it is determined that all of the existing sinks are needed in the classroom, then it is recommended that all the sink fixtures be considered for replacement. As noted in our earlier report, the new regulation requires the any new fixture be sampled and show acceptable results before returning to service.

Report prepared by:

Patrick D. McGuinness

Patrick D. McGuinness, MS, P.E.

Vice President