

June 9, 2016

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St. Clare of Montefalco

16231 Charlevoix Street

Grosse Pointe Park, Michigan 48230

Subject: Summary of Water Sampling Activities
St. Clare of Montefalco Sweeny Center
Grosse Pointe Park, Michigan
AKT Peerless Project No. Project No. 11510f-1-20

Mr. Fisher:

AKT Peerless was retained to provide environmental consulting services at St. Clare of Montefalco Sweeny Center located at 16231 Charlevoix Street, Grosse Pointe Park, Wayne County, Michigan (subject property). AKT Peerless conducted sampling of the municipally-provided drinking water at the subject property. AKT Peerless' scope of services is based on its proposal, PF-19345, dated May 31, 2016, and the existing master services agreement between AKT Peerless and the Archdiocese of Detroit (Client).

Introduction

On May 20, 2016, AKT Peerless collected samples from four high-flow sources of drinking water at the subject property. Laboratory analytical results identified concentrations of lead above the USEPA action level of 15 parts per billion (ppb) at two locations. AKT Peerless was retained to conduct additional testing of the drinking water for lead at the subject property. At the request of the Client, AKT Peerless conducted sampling of fifteen sources of drinking water at the Sweeny Center. In order to further evaluate exceedances of the USEPA action levels identified during previous sampling activities.

Scope of Assessment

AKT Peerless' scope of work included (1) conducting a pre-sampling inspection of the fixture(s), (2) sampling fixtures in the building with the exception of two locations that were previously identified to contain lead below the USEPA action level of 15 ppb with the assistance of facility maintenance personnel, (3) checking and cleaning aerators, (4) recording water coolers and associated model numbers, (5) noting electric wires grounded to pipes, to the extent readily observable, (6) identifying the locations of recalled water coolers to the extent readily observable, and (7) conducting first draw and 30 second flush samples.

Samples were collected in general accordance with Michigan Department of Environmental Quality (MDEQ) sampling protocol for *Drinking Water Sampling for Lead and Copper at Schools and Daycares on Community Water Supplies*, dated April 20, 2016. The drinking water samples were transported under chain-of-custody documentation to Brighton Analytical Laboratory L.L.C. (BAL), a National Environmental Laboratory Accreditation Conference (NELAC)/MDEQ certified drinking water laboratory. Refer to Attachment 1 for a site map with sample locations. Refer to Attachment 2 for a photographic log.

Water Cooler Survey

AKT Peerless identified the following water coolers and/or bubblers at the subject property:

Manufacturer	Model Number	Quantity	Grounded Piping (Yes/No/Not Accessible)
Crane	Not accessible	3	Not accessible
Unknown	Not accessible	1	Not accessible

AKT Peerless observed one water bubbler in the basement of the Sweeny Center that did not have a readily apparent manufacturer or model number.

A survey of water coolers at the subject property did not identify water coolers that were recalled due to potential lead exposure hazards.

Laboratory Analysis and Methods

AKT Peerless submitted 30 drinking water samples collected from the subject property to BAL for the analysis of lead. Samples were analyzed using United States Environmental Protection Agency (USEPA) Method 200.8 rev 5.4. The results of the laboratory analyses of the samples are summarized in the table below:

Summary of Analytical Results

Sample Identification*	Analytical Result (parts per billion, ppb)
MFA-2-NS-P-01	2
MFA-2-F-NS-01	1
MFA-2-BS-P-01E	10
MFA-2-BS-F-01E	1
MFA-2-BS-01W-P	5
MFA-2-BS-F-01W	Not detected
MFA-2-BS-P-02C	4
MFA-2-BS-F-02C	Not detected
MFA-2-BS-P-02E	3
MFA-2-BS-F-02E	Not detected
MFA-2-BS-P-02W	5

Sample Identification*	Analytical Result (parts per billion, ppb)
MFA-2-BS-F-02W	Not detected
MFA-2-WB-P-04	9
MFA-2-WB-F-04	5
MFA-2-KS-P-01N	15
MFA-2-KS-F-01N	2
MFA-2-KS-P-01C	21
MFA-2-KS-F-01C	Not detected
MFA-2-KS-P-01S	3
MFA-2-KS-F-01S	Not detected
MFA-2-LS-P-01W	14
MFA-2-LS-F-01W	4
MFA-2-LS-P-01C	7
MFA-2-LS-F-01C	1
MFA-2-LS-F-01S	21
MFA-2-LS-P-01S	4
MFA-2-LS-P-02E	38
MFA-2-LS-F-02E	8
MFA-2-LS-P-02W	12
MFA-2-LS-F-02W	17

* MFA = Activity Center Sample Location; WC = Water Cooler; KS = Kitchen Sink; BS-01 = Boy's Bathroom Sink, BS-02 = Girls Bathroom Sink, LS-01 – Boy's Locker Room Sink, LS-02 – Girl's Locker Room Sink, NS = Nursery School, N = North, E = East, S = South, W = West, C = Center, P = Primary Draw, F = Flush Draw
BOLD – indicates detected lead concentration above USEPA action level.

Analytical Results

AKT Peerless compared the laboratory analytical results to the National Primary Drinking Water Standards (adopted by the MDEQ). The laboratory analytical results indicated the presence of lead above applicable primary drinking water standards.

Refer to Attachment 3 for a complete laboratory analytical report and chain of custody documentation.

Conclusions

Based on laboratory analytical results, lead was detected in three samples (i.e., MFA-2-KS-P-01C, MFA-2-LS-F-01S, MFA-2-LS-P-02E, and MFA-2-LS-F-02W) above the USEPA action level for lead of 15 ppb.

According to site personnel, the Sweeny Center was constructed in the 1970s and water supply piping is constructed of copper piping. The water main to this building is separate from the water main to the school.

AKT Peerless recommends the building be equipped with filters rated for lead. This could include equipping each fixture or installing a filtration/treatment system that services the entire building.

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