

**Summary of City of Flint (City) Actions  
In Response to the  
EPA Emergency Administrative Order  
Updated: April 1, 2016**

Chapters 52, 57, 59a & 59b: Weekly Conference Call Regarding Flint Water Plant Operations March 25, 2016.

EPA Order Due Date: Weekly

MDEQ and the Flint Water Treatment Plant staff held the weekly conference call to review and discuss the weekly summary of water quality and corrosion control parameters that are reported on both the city's March operation report completed to date, and a summary of water quality parameters collected in the distribution system during the week of March 28<sup>th</sup>. These reports are being used to monitor the city's corrosion control treatment.

The following observations were noted:

- The supplemental phosphate dosage was consistent and ranged between 2.52 and 2.71 milligrams per liter.
- All of the phosphate residuals in the distribution system at the sites monitored weekly were at or above the minimum of 3.1 milligrams per liter to be maintained at all distribution monitoring locations, ranging between 3.34 and 3.66 milligrams per liter.
- A problem with the phosphate feed pump was discovered on March 31<sup>st</sup>, when the 7 AM phosphate reading was too low. The chemical feed pump was restored to full capacity by 8:00 AM. The city estimates the feed rate was below normal for about one hour.
- All pH measurements were greater than 7.0 at the Enhanced Water Quality Monitoring sites and the Point of Entry to the system. The pH levels ranged from 7.20 to 7.37.
- Iron levels ranged between 0.01 and 0.06 milligrams per liter at all Enhanced Water Quality Monitoring sites. Plant tap iron concentrations ranged from 0.00 to 0.01 in the last week.
- All but one of the lead samples collected from the EQWP sites this week reported no lead detected, with one site reporting 1 microgram per liter.
- We discussed the fact that the city had completed their required bacteriological monitoring for the month of March by the 24<sup>th</sup>, so no additional samples and affiliated chlorine residuals were collected this past week. The city had an internal meeting and instructed staff to conduct weekly monitoring in the future regardless of the monthly compliance status. EPA is also monitoring chlorine residuals at sites dispersed around the city and would have brought any issues to the attention of the Flint WTP staff.

- The city and EPA are now using the same field test kits for chlorine residual monitoring and other parameters (hardness, orthophosphate, iron, pH).
- The city indicated that inline monitors are on order, 6 for chlorine residuals and 2 for phosphate residuals. They should be installed within 30 days in accordance with their short term goals in the Distribution System Optimization Plan.
- The city is still awaiting 2 auto-flushers that have been shipped that will be installed in areas that need to reduce water age to maintain adequate water quality. Another 12 of these auto-flushers are also on order for the city's use.

Overall, the corrosion control treatment is meeting expectations as demonstrated from the water quality monitoring submitted this week.