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Subject: Action Steps Update
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George,

Below is a status update on the action steps assigned to me:

Action Step 6: Approve Flint Plan for waterline

The city and the county flushed the pipeline beginning yesterday just after 4pm and the free chlorine residual dropped to less than 2.0 ppm by 2:00am this morning. Based upon my discussion with Genesee County operators, the first set of samples for total coliform analysis were collected around 2:30am at the mid-point location along the 3.5 mile of de-commissioned pipeline and at Control Station 3 (on Flint WTP grounds).

The highly chlorinated water (approx 3.5 Mgal) was passed through to the Dort Reservoir (on WTP grounds) and was to be diluted by filling the reservoir to its 20 Mgal capacity; however, I suspect that some wasting of the water to the sanitary sewer will be necessary since the chlorine residual (3.5 mgal) was approx 100 mg/l. I was unable to confirm this with Flint operators (I tried to contact them several times today with no success).

Genesee County will be collecting their second sample for bacteriological analysis between 6 and 8pm at the pipeline mid-point. I suspect that it will take additional time to flush the Dort Reservoir before it is ready to be sampled and may set back the time that the pipeline is ready to be placed into operation (Thurs the soonest possible). The yard piping configuration at the WTP does allow for flexibility in operation and ability to take Dort out of service and maintain supply from Detroit; however, I have not been able to confirm that this is the way the city plans to proceed.

Action Step 19: Expedite 399 plan and P04 plan

I contacted Samir Matta from LAN (Flint's consultant) for an update on the corrosion control plan and submittal of the Act 399 permit application. Flint operators, with the assistance of LAN, conducted bench tests using a corrosion inhibitor (orthophosphate) and are making comparisons for use with (treated water from Detroit vs. water treated from the Flint River). LAN is currently preparing plans and a design for installation of an orthophosphate feed system at Control Station 2 and Pump Station #4 (on WTP grounds) with the ability to re-locate the feed equipment when Flint switches to the KWA. LAN expects to submit the Act 399 permit application to the DEQ by no later than the end of this week.

Action Step 18: Contact KWA to find out if there are any bottlenecks that need to be removed to expedite completion of the KWA pipeline.

I contacted John O'Brien (Genesee County Drain Commissioner's Office). The most significant bottleneck involves road restrictions currently being imposed by the Lapeer County Road Commission and include:

- All Lapeer County secondary north-south roads are tagged "no construction traffic" for this project except for primary roads (M-19, M-53, and M-24). This significantly increases distances that construction vehicles must travel (upwards of 15 to 20 miles) to accomplish a short jog either north or south.
- Weight restrictions in the spring will cause construction to slow or stop for one to two months. The county has indicated that St. Clair and Sanilac are not imposing the weight restrictions; however, Lapeer County will maintain their restrictions.

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District Engineer

Office of Drinking Water and Municipal Assistance

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