

Department of Utilities
St. Tammany Parish Government
May 6, 2022
Rev. 3

Re: Revised and Updated Chlorine Burn Status
Temporary conversion from Total Chlorine (Monochloramine) disinfection to Free Chlorine

* The following schedule of work is being updated and revised as testing and data review is completed. The schedule shown is approximate and will be adjusted as needed based on test results.

**Precautionary Boil Water Advisory (BWA) will remain in effect until the Cross Gates water system is stabilized. Once system is determined to be stabilized, then BWA samples will be collected and submitted to LDH. Once LDH approves samples (approximately 24 hours after samples are submitted) the BWA will be rescinded.

*** Chlorine Burn 60 day duration will begin once entire distribution system is above 1.0ppm and stabilized.

Sequence of Operations:

30MAR2022: Submit application to LDH for Free Chlorine Conversion for 60 days

01APR2022: Submit revised updated application to LDH for Chlorine Cleanse

04APR2022: Received approval from LDH for Chlorine Cleanse

05APR2022: Press Release issued by Dept. of Public Information

08APR2022: Start 14-day Public Notice Period

- Signs posted throughout service area
- Run in Farmer on 4/13/2022 & 4/20/2022
- Post on Website (PIO), Press Release (PIO), STPGTV (PIO), & Facebook
- Mail Flyers out to individual customers
- Visit in person with Commercial, Medical, Restaurant customers and hand Deliver Public Notice on Monday, April 11, 2022.
- Reverse 911 to customers

12APR2022: Meeting with Curtis Environmental to finalize burn logistics and procedures.

24APR2022: End Public Notice Period

Jar Test – 21APR2022 Curtis Environmental to work with Dept. of Utilities (Utilities) to begin disinfection conversion.

System Review:

- a. Check pumping capacity at both wells (Willow Wood and Steele Rd.) and determine anticipated design/flow rates.
- b. Assay Chlorine Tank.
- c. Review Chlorine Feed System and Collect Water Samples to be further analyzed by Jar Testing techniques.

- d. Allow 48-72 Hrs. of Jar Testing prior to system conversion (which will overlap with days 2, 3, & 4 as system will be modified based on Jar Testing that is 24 hours ahead of system modifications).

- Day 1 - 25APR2022 Free Chlorine Conversion: (Boil Water Advisory in effect)
- a. Increase the Chlorine feed rates at both wells based on calculated values and results of jar tests.
 - b. Allow for the system to begin the conversion
 - c. Issue system wide Boil Water Advisory (BWA) when the conversion commences.
 - d. Begin flushing system which will continue throughout conversion as needed.
- Day 2 - 26APR2022 Distribution System Monitoring: (Boil Water Advisory in effect)
- a. Check the Chlorine Residual (Free and Total) at all parts of distribution.
 - b. Work with Utilities Operators to review and monitor the system to ensure the water system reaches Free Chlorine disinfection and minimal LDH compliance.
- Day 3 – 27APR2022 Review Day 3 data: (Boil Water Advisory in effect)
- a. Review the results from the Day 3 testing and determine if additional flushing is needed to raise the free Chlorine residuals in the distribution system.
 - b. Coordinate with Utilities personnel and present the results from Day 3 data for review.
- Day 4 – 28APR2022 Daily testing and monitoring dictated that additional time is needed for the stabilization of the entire water system.
- Review Day 4 data: (Boil Water Advisory in effect)
- a. Review the results from the Day 4 testing and determine if additional flushing is needed to raise the free Chlorine residuals in the distribution system.
 - b. Coordinate with Utilities personnel and present the results from Day 4 data for review.
- Day 5 – 29APR2022 Review Day 5 data: (Boil Water Advisory in effect)
- a. Review the results from the Day 5 testing and determine if additional flushing is needed to raise the free Chlorine residuals in the distribution system.
 - b. Coordinate with Utilities personnel and present the results from Day 5 data for review.
- Day 6 – 30APR2022 & Day 7 – 01MAY2022 (Boil Water Advisory in effect)
- Monitor water system and daily sampling: (Boil Water Advisory in effect)
- a. **Chlorine Dosing Pump failure resulted in loss of Chlorine residual.
 - b. Additional flushing performed Sunday, May 1 to raise the Free Chlorine residuals in the distribution system.

- Day 8 – 02MAY2022 Review Day 8 data: (Boil Water Advisory in effect)
- a. Review the results from the Days 6 - 8 testing and continue additional flushing to raise the Free Chlorine residuals in the distribution system.
 - b. Coordinate with Utilities personnel and present the results from Day 8 data for review.
- Day 9 – 03MAY2022 Review Day 9 data: (Boil Water Advisory in effect)
- a. Review the results from the Day 9 testing and continue additional flushing to raise the Free Chlorine residuals in the distribution system.
 - b. Coordinate with Utilities personnel and present the results from Day 9 data for review.
- Day 10 – 04MAY2022 Review Day 10 data: (Boil Water Advisory in effect)
- a. Review the results from the Day 10 testing and continue additional flushing to raise the Free Chlorine residuals in the distribution system.
 - b. Coordinate with Utilities personnel and present the results from Day 10 data for review.
- Day 11 – 05MAY2022 Review Day 11 data: (Boil Water Advisory in effect)
- a. Review the results from the Day 11 testing and continue additional flushing to raise the Free Chlorine residuals in the distribution system.
 - b. Coordinate with Utilities personnel and present the results from Day 11 data for review.
- Day 12 – 06MAY2022 Review Day 12 data: (Boil Water Advisory in effect)
- a. Review the results from the Day 12 testing and continue additional flushing to raise the Free Chlorine residuals in the distribution system.
 - b. Coordinate with Utilities personnel and present the results from Day 12 data for review.
- Day 13 – 07MAY2022 Review Day 13 data: (Boil Water Advisory in effect)
- a. Review the results from the Day 13 testing and continue additional flushing to raise the Free Chlorine residuals in the distribution system.
 - b. Coordinate with Utilities personnel and present the results from Day 13 data for review.
- Day 14 – 08MAY2022 Review Day 14 data: (Boil Water Advisory in effect)
- a. Review the results from the Day 14 testing and continue additional flushing to raise the Free Chlorine residuals in the distribution system.
 - b. Coordinate with Utilities personnel and present the results from Day 14 data for review.
- Day 15 - 09MAY2022 Review Day 15 data & BWA Sampling: (Boil Water Advisory in effect)
- a. Review the results from the Days 13 - 15 monitoring and testing to determine if additional flushing is needed to raise the Free Chlorine residuals in the distribution system.

- b. Coordinate with Utilities personnel and present the results from Days 13 - 15 data for review.
- c. Check residuals throughout distribution system.
- d. If all points of distribution system result in Free Chlorine residuals above 1ppm, then collect BWA samples and submit to LDH.

Day 16 – 10MAY2022 Begin weekly system monitoring: (Boil Water Advisory in effect)

- a. If LDH approves BWA samples, then rescind BWA for Cross Gates system.
- b. Monitor points in the Distribution system and pull Chlorine residuals with Utilities Operators. Sampling will be performed at multiple sites each day in each quadrant of Cross Gates water system service area to ensure residual levels are maintained throughout water system. All sites shall be sampled at least once every 4 days.
- c. Curtis to provide total of 8 weekly trips monitoring all points in the distribution system while Utilities Operators monitor daily.
- d. Coordinate with Utilities personnel and present the results from the weekly system monitoring.

Day 17 – 11MAY2022 Continuous monitoring of water distribution system through duration of Chlorine Burn.

Week 3 of Chlorine Burn: Begin testing and monitoring for Disinfection Byproducts testing (DBP).

Immediately following completion of Chlorine Burn:

- a. Actuate all valves in Cross Gates water system. This will require a precautionary Boil Water Advisory (BWA).