

Required Submittals for Chlorination Process

1. Type and strength of chlorine (include MSDS sheet).
2. Type of de-chlorination compound (include MSDS sheet) and calculations showing the quantity of compound needed to de-chlorinate the highly chlorinated water contained in the new water main.
3. Letter to the City listing the material and equipment components to be used for chlorination and proposing a schedule for the work (all subject to review and approval by the City).
 - a. Supply all clean and sterile components necessary for the process.
 - b. Supply new vessel or new lining for the vessel to contain chlorine mix compounds.
4. Water trucks are **not** allowed to pump water or chlorine solution into any waterline.
5. Alternate water sources, if requested. Alternate sources of water may only be used to fill, test, chlorinate and de-chlorinate. Alternate sources of water must be submitted and approved in writing prior to use.

Chlorination Procedure (Option One)

1. Schedule City for testing at least 48 hours in advance.
2. City to assure isolation valve is fully closed to prevent solution from entering operational system.
3. Open end of pipe valve to allow water to exit new system.
4. Mix solution per attached sketch (Attachment # 1).
5. Pump sufficient chlorine solution into new line to displace the water in the new line and achieve the required chlorine concentration.
6. City to test solution at end of line to meet 50 to 100 PPM.
7. Close end of line valve.
8. Pump additional chlorine solution slowly into line while bleeding each service and hydrant.
9. Shut down system and let it chlorinate for 24 to 30 hours.
10. Schedule with City to de-chlorinate between 24 and 30 hours after chlorination is complete.
11. City to test chlorine level to ensure that required residual remains.
12. De-chlorinate (see following de-chlorination procedures).



CHLORINATION PROCEEDURES (1 OF 5)

STANDARD PLAN:
W - 650

DATE: **FEB. 2007**

CITY ENGINEER APPROVAL:

Longview: **C.B.**

Kelso: **S.Z.**