
From: Prysby, Mike (DEQ)
Sent: Tuesday, September 17, 2013 10:04 AM
To: Busch, Stephen (DEQ);Cook, Pat (DEQ)
Subject: Revised CT calc for Flint WTP
Attachments: CT Calc at 18 MGD w. softening.xls

Attached is a slight revision to the CT calc for the Flint WTP. The revision reflects the lowest operating level in the 3-MGAL clearwell of 10 ft. 15 feet is the high level alarm and each foot drop represents 200,000 gallons. The 10 foot operating level reflects 2.0 Mgal of water remaining in the clearwell. In a nut shell, the WTP provides 0.42 additional log removal (18 MGD, 0.5 deg C, pH 9.0, CL2 1.0 ppm) at the lowest operating level which falls slightly short of the 0.5 additional log removal requirement.

If the outgoing free chlorine residual is increased to 1.5 ppm, 0.54 additional log removal is achieved, thus meeting the required CT.

I will be sending a copy of this CT calc to Warren Green at LAN and to Brent Wright at the Flint WTP.

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