

Rennaker, Joanne (DEQ)

From: Busch, Stephen (DEQ)
Sent: Tuesday, October 20, 2015 2:45 PM
To: Gardner, Michael (OAG)
Cc: Shekter Smith, Liane (DEQ); Benzie, Richard (DEQ); Philip, Kris (DEQ); Shekter, Jean (DEQ); Prysby, Mike (DEQ); Rosenthal, Adam (DEQ); Sygo, Jim (DEQ)
Subject: OAG Requested Items
Attachments: CWS Monitoring Charts - January 2014.pdf; Flint.pdf; Flint-GMsites.jpg

Mike,

Here are the following items you requested during our meeting on 10/15.

Reference to the Recommended standards for water works (Ten State Standards) is as follows under Rule 113 and Rule 1302:

R 325.10113 Compliance with rules; guidance information.

Rule 113. Public water supplies may use the information in the following publications as guidance to comply with these rules:

(a) Recommended standards for water works, prepared by the Great Lakes--upper Mississippi river board of state sanitary engineers, is available for inspection at the department offices in Lansing, and may be purchased at a cost of \$12.00 from the Health Education Services, P.O. Box 7126, Albany, New York 12224 telephone 518-439-7286, Internet <http://www.hes.org/>.

(b) The American water works association manual M 19, emergency planning for water utilities, 2001, as referred to in part 23, is available for inspection at the department offices in Lansing, and may be purchased at a cost of \$95.00 from the American Water Works Association, 6666 West Quincy Avenue, Denver, Colorado 80235, telephone 1-800-926-7337, Internet www.awwa.org.

(c) Suggested practices for waterworks design, construction, and operation for type I public water supplies, February 2008, prepared by the Michigan department of environmental quality, water bureau, is available for inspection at the department offices in Lansing and on the Internet at <http://www.michigan.gov/deq>.

(d) Cross connection rules manual, fourth edition, October 2008, prepared by the Michigan department of environmental quality, water bureau, is available for inspection at the department offices in Lansing and on the Internet at <http://www.michigan.gov/deq>.

History: 1979 AC; 2000 AAC; 2009 MR 23, Eff. Dec. 4, 2009.

R 325.11302 Submission of plans and specifications for construction or alteration of waterworks system; guidance material.

Rule 1302. (1) For type I public water supplies, before the construction or alteration of a waterworks system, or a portion of a waterworks system, plans and specifications shall be submitted to the department by a public water supply or its designated agent for review, approval, and issuance of a permit, unless otherwise accepted under R 325.11304.

(2) A permit application shall be submitted with the plans and specifications, shall identify and summarize plans or projects, and, if applicable, shall indicate the authorization of the designated agent for the public water supply.

(3) Both of the following shall be used, whenever applicable, when preparing plans and specifications:

(a) Recommended standards for water works, prepared by the Great Lakes Upper Mississippi board of state sanitary engineers under R 325.10113.

(b) Suggested practices for waterworks design, construction, and operation for type I public water supplies, prepared by the Michigan department of environmental quality, water bureau under R 325.10113.

History: 1979 AC; 2009 MR 23, Eff. Dec. 4, 2009.

Here's a link to the current version of the Recommended Standards for water works.

<http://www.10statesstandards.com/waterrev2012.pdf>

Summary of monitoring requirements chart

The attached, CWS Monitoring Charts – January 2014.pdf, should give you a more readable listing of the monitoring requirements instead of having to look at each rule. Jean Shekter and Kris Philip can help decipher this chart if you have questions or need the rule references.

Map of Flint Water System

A copy of the water system map is attached (Flint.pdf). Please note that this map is a controlled document that should not be shared with others for security purposes related to critical infrastructure.

Flint WTP in relation to GM Sites

A google earth map image attached, Flint-GMsites.jpg, shows the location of the Flint WTP in relation to the GM assembly plant and the Buick City site. Not sure if these were the GM site(s) you were wondering about.

Flint Population and Service Connection History

Before 2006, population = 140,761

2006, population = 124,943 (2000 census); 41,537 residential & small commercial accounts

2009, population = 118,645 (DWRP project plan); 38,000 residential accounts

1/2013, population = 102,434 (2010 census); 31,228 residential accounts

3/2015, population = 99,763 (2013 census estimate); 24,600 residential accounts

(FYI the 2014 census estimate is listed as 99,002)

Let me know when you want to meet again and if there is any other info you need.

Stephen Busch, P.E.

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