

**Summary of Department of Environmental Quality (DEQ) Actions
In Response to the
EPA Emergency Administrative Order
Updated: 03/07/2016**

EXECUTIVE SUMMARY:

The EPA Emergency Administrative Order contains 15 overall items to be addressed by DEQ. The status of each of the 15 items has been categorized into the following categories: ongoing, completed, and completed & ongoing. The current status of the items is as follows: four (4) items are ongoing; three (3) items have been completed; and eight (8) items have been completed and are ongoing. To date, all deadlines imposed in the EPA Order have been met and work continues on several items that require an ongoing effort. It is anticipated that the next update to this summary will be provided on 03/14/2016.

DETAILED INFORMATION:

EPA Order Due Date: 01/21/2016

- **Item 55: “Shall cooperate with EPA for conducting sampling and other diagnostic activities”**
 - The Administration Group has been assigned this task. Communication has been initiated by the group.
 - *It is an ongoing process.*
- **Item 60: “Shall not switch water supplies until plans have been submitted and approved”**
 - The Public Health Group has been assigned to this task and they have received an agreement to comply from the City of Flint.
 - *This task has been completed.*

EPA Order Due Date: 01/22/2016

- **Item 50: “Intent to Comply Letter”**
 - The Administrative Group was assigned this task.
 - *This task was completed on 01/22/2016. Letters of intent have been posted to the Flint Water website from both MDEQ and the City of Flint.*

EPA Order Due Date: 01/26/2016

- **Item 51: “Public Website posting all reports, plans, weekly status reports on progress, except Personally Identifying Information (PII)”**
 - The Administrative Group was assigned this task. The information currently available has been posted on the Flint Water website and will continue to be updated as more results become available.
 - *This is an ongoing task. A tab added to the Flint Water website includes all relative documents posted to date; additional documents continue to be posted as they are*

developed. Adding folders under this tab to better organize the documents, especially as recurring reports begin to accumulate, is being considered.

- A representative from the Administrative Group will be working with SEOC to add an EPA Order section to the website.
 - *This is complete and ongoing.*

EPA Order Due Date: 01/28/2016

- **Item 63: “Shall engage a panel of experts to advise and make public recommendations to the city on steps needed to mitigate the imminent and substantial endangerment to the health of persons and general operation of the city’s PWS to comply with SDWA & NPDWRs”**
 - The Administrative Group has been assigned to this task. A panel of experts met in Flint on 01/27/2016 at 3:00 p.m.
 - The Flint Water Interagency Coordinating Committee (FWICC) was created by a 01/11/2016 Executive Order by Governor Snyder. That order and a list of committee members have been posted to the Flint Water website.
 - *This is an ongoing task. The FWICC is meeting weekly and has engaged in a subcommittee structure, which has also been posted to the website.*

EPA Identified Deficiency #9: Respondents have not yet provided a list of the “Independent Advisory Panel” membership (Paragraph 63).

- Assigned to Administration Group
- An updated list of FWICC and subcommittee members has been posted to the Flint Water website.

EPA Order Due Date: 01/31/2016

- **Item 52: “Is progress being made with corrosion control in the City? Respond to EPA Flint Task Force”**
 - The Public Health Group has been assigned to this task in coordination with the City of Flint
 - EPA agreed on the dosing level for orthophosphate (01/27/2016).
 - *This task has been completed.*
 - Conduct weekly status calls with Flint Water Treatment Plant.
 - *This task is completed and is ongoing. Conference calls between the DEQ Public Health Group and the City of Flint are scheduled for each Friday at 1:30 p.m.*
 - Review Monthly Operational Reports to ensure corrosion control treatment is appropriately maintained. December Monthly Operations submitted with dosages (1st week of January). Data expected from City on 01/29/2016.
 - *Task is completed and ongoing. Monthly Operation Reports, including consolidated reports for the years 2013-15, one-month reports for December 2015 and January 2016, and a weekly updates have been posted to the Flint Water website.*

- *Supplemental documentation explaining the DEQ response to this item has been posted to the Flint Water website.*

EPA Identified Deficiency #1: Respondents have not responded in writing to the EPA Flint Task Force’s requests and recommendations (Paragraph 52).

- Assigned to Public Health Group in coordination with the City of Flint
 - “Recommendations from Flint’s Safe Drinking Water Task Force” spreadsheet provided by EPA has been populated to include assignments, tasks and task status information in the “Role of MDEQ” field. This spreadsheet has been uploaded to the Flint Water website.
 - “Recommendations from Flint’s Safe Drinking Water Task Force” spreadsheet has been sent to the City of Flint for input in the “Role of City of Flint” field. An updated spreadsheet will be uploaded to the Flint Water website when a response from the City of Flint is received.
- **Item 53 (A): “Water quality parameter measurements in distribution system”**
 - The Public Health Group has been assigned to this task.
 - Ensure City conducts/provides water quality parameter data as required and that water quality parameter trends/concerns are discussed during the weekly status call.
 - *Task is completed and ongoing. Monthly Operation Reports have been posted to the web, as noted for item 52 (above).*
 - **Item 53 (B): “All lead in water testing results for the City since January 2013, including those not used for LCR compliance”**
 - The Public Health Group has been assigned to this task.
 - *Task is completed and ongoing.*
 - Provide any lead results in DEQ files for monitoring since January 2013 (target 01/29/2016) to the Administrative Group for vetting; results will be posted on the website.
 - *Task is completed and ongoing. Supplemental information explaining past monitoring efforts has been posted to the Flint Water website.*
 - Ensure ongoing monitoring results continue to be provided and posted to the website.
 - *This task is ongoing. A spreadsheet of updated test results is being posted daily to the Flint Water website.*

EPA Identified Deficiency #2: Respondents have not provided all lead in water testing results for the City since January 2013 (Paragraph 53(b)).

- This item has been addressed and meets EPA’s requirements
- **Item 53 (C): “Identification of areas by zip code in the City with elevated blood lead levels”**
 - The Administrative Group has been assigned to coordinate with DHHS.
 - *Ongoing process. An explanation of results for blood lead level testing has been posted to the Flint Water website to supplement information originally posted.*
 - **Item 54 (A): “Existing inventory of homes with lead service lines in Excel or similar format”**

- The Administration Group and Field Group and MDEQ-IMT GIS are assigned to the task of compiling this data.
 - *This task is complete and ongoing. A supplemental document has been posted to the Flint Water website to further explain the status of lead line identification in the City.*

EPA Identified Deficiency #3: The existing inventory of homes with lead service lines submission is not adequate (Paragraph 54(a)).

- Assigned to Administration Group and MDEQ-IMT GIS
 - Updated information on this task was posted to the Flint Water website on 02/25/2016. Work is continuing and reports on progress will be uploaded to the Flint Water website.
 - Extensive progress has been made on the development of an all-inclusive database that contains the lead service line inventory.
- **Item 54 (B): “Addresses of homes that have had water service interruptions or street disturbances (e.g., water main breaks, etc.) within last year”**
 - This task has been assigned to the MDEQ-IMT GIS Group and Public Health Group in coordination with the City of Flint
 - Coordination has occurred
 - *This task has been completed.*
 - **Item 54 (C): “Addresses of currently unoccupied homes”**
 - This task has been assigned to the MDEQ-IMT GIS and Public Health Group. MDEQ is working with the City of Flint Department of Public Works to acquire the data and map these locations. The information for this is not for public dissemination due to safety reasons.
 - *This is an ongoing task. A list of unoccupied homes had been posted to the Flint Water website on 01/31/2016, with personal information removed.*
 - **Item 69 (A): “Any agent, consultant or contractor used for carrying out this order shall also abide by record retention restrictions under this order”**
 - This task has been assigned to the Administrative Group
 - All agents or contractors will be required to comply with the Retention Schedule of the EPA Order.
 - *This task is ongoing.*
 - Identify record retention elements and provide direction to all personnel, agents, or contractors who are, or may become, involved with the Flint water incident. Also prepare a Documentation Unit Leader task list and identify resource(s) needed to fill the position. This was assigned to the Assistant Attorney General.
 - *This task has been completed.*
 - **Item 69 (B): “Any agent, consultant or contractor used for carrying out this order shall also abide by record retention restrictions under this order”**
 - This task has been assigned to the Legal Team and the Administrative Group
 - A letter was sent to the City of Flint from DEQ on 01/31/2016.

- *This task is completed.*

EPA Order Due Date: 02/04/2016

- **Item 59 (A): “City shall submit a plan and schedule to MDEQ for designated optimal corrosion control and water quality parameters and water monitoring plans”**
 - The Administration Group and Public Health Group have been assigned to this task in coordination with the City of Flint
 - A weekly conference call has been scheduled for Fridays at 1:30 p.m. to review and discuss water quality monitoring results for the past week (every week). Data will be reviewed and submitted for posting on the website.
 - *This task is completed and ongoing. A Plan for Optimization of Corrosion Control as well as a 10/30/2015 letter from MDEQ to the City of Flint have been posted to the Flint Water website to supplement information originally posted to the web in regard to this item.*

EPA Identified Deficiency #5: Respondents have not provided plans and schedules to ensure the treatment plant is consistently and reliably meeting plant performance criteria (Paragraph 59(a)).

- Assigned to Public Health Group in coordination with the City of Flint
- Work on completion of this task is ongoing
- **Item 59 (B): “City shall submit a sampling plan for daily monitoring to the MDEQ in a weekly report”**
 - The Public Health Group has been assigned to this task
 - A weekly conference call has been scheduled for Fridays at 1:30 p.m. to review and discuss water quality monitoring results for the past week (every week). Data will be reviewed and submitted for posting on the website.
 - *This task is completed and ongoing.*

EPA Identified Deficiency #6: Respondents have not submitted a plan for daily monitoring of water quality parameters in the distribution system (Paragraph 59(b)).

- Assigned to Public Health Group in coordination with the City of Flint
- This item has been addressed and meets EPA’s requirements
- **Item 59 (C): “City shall submit to the MDEQ an operations plan for the corrosion control equipment submitted in weekly format including monitoring, calibration, verification and daily monitoring of finished water corrosion control parameters”**
 - The Administration Group and Public Health Group have been assigned to this task

- Weekly updates are being posted to the Flint Water website. MDEQ will work with the City of Flint and consultants, as appropriate, to work on a comprehensive plan.
 - *This task is completed and ongoing.*

EPA Identified Deficiency #7: Respondents have submitted an inadequate operations plan for the corrosion control equipment and daily monitoring of finished water corrosion control parameters (Paragraph 59(c)).

- Assigned to Public Health Group in coordination with the City of Flint
- Work on completion of this task is ongoing.

EPA Order Due Date: 02/05/2016

- **Item 61: “City must demonstrate and MDEQ must ensure the city has necessary capable and qualified personnel to perform duties in PWS”**
 - The Administration Group and Public Health Group has been assigned to this task in coordination with the City of Flint
 - City of Flint has submitted a list of employees and their drinking water certifications to MDEQ. Review of this information by MDEQ has been completed.
 - *This task is completed and ongoing. Explanatory information, accompanying a water treatment plant org chart and employee position descriptions, has been posted to the Flint Water website to supplement information originally posted to the web in regard to this item.*

EPA Identified Deficiency #8: Respondents submitted a list of staff, but have not adequately demonstrated the City has the necessary, capable and qualified personnel required to perform the duties and obligations required to ensure the public water system complies with the SDWA and the National Primary Drinking Water Regulations (Paragraph 61).

- Assigned to Public Health Group in coordination with the City of Flint
- Work on completion of this task is ongoing.

EPA Order Due Date: 02/20/2016

- **Item 62: “City will document and share steps to develop and implement a distribution system water quality optimization plan to MDEQ”**
 - The Public Health Group has been assigned to this in coordination with the City of Flint.
 - *This task is completed and is ongoing. A Distribution System Optimization Plan has been developed and provided to MDEQ by the City of Flint. This plan has been reviewed by MDEQ and a response letter has been provided to the City of Flint. As noted in the response letter, MDEQ has identified additional information that needs to be included in the plan. Work on this will continue.*

- MDEQ contacted national drinking water organizations currently working on the distribution system optimization plan framework and received information regarding distribution system optimization from the following:
 - American Water Works Association
 - Boston Water & Sewer Commission
 - Process Applications, Inc.
 - Wrightsville Borough Municipal Authority (Pennsylvania)
 - Association of State Drinking Water Administrators

EPA Order Due Date: Monthly

- **Item 57: “Shall maintain chlorine residual in the distribution system in accordance to SDW and National Primary Drinking Water Regulations (NPDWR)”**
 - The Public Health Group has been assigned to this task in coordination with the City of Flint
 - *This has been completed and is ongoing. Additional information on chlorine residual was posted to the Flint Water website to supplement information originally posted in regard to this item.*
 - Regulatory requirements are already in place for residual chlorine. The City is required to monitor chlorine regularly and report on Monthly Operating Reports.
 - *Monthly Operational Reports, which include chlorine residual information, continue to be posted to the Flint Water website, as described under item number 52 above.*
 - Review Chlorine residual levels in weekly status calls.
 - *Conference calls between the DEQ Public Health Group and the City of Flint are scheduled for each Friday at 1:30 p.m.*

EPA Identified Deficiency #4: Respondents have not adequately demonstrated (e.g., using daily sampling information) that they are maintaining chlorine residual in the distribution system (Paragraph 57) or continuing to add corrosion inhibitors at levels sufficient to re-optimize corrosion control in the distribution system (Paragraph 58).

- Assigned to Public Health Group in coordination with the City of Flint
- Reports are posted to the Flint Water website on a weekly basis (every Friday).

- **Item 58: “City shall continue to add corrosion inhibitors at sufficient levels”**
 - The Administration Group and Public Health Group have been assigned to this task
 - *This is an ongoing task. Water quality parameter monitoring reports continue to be posted weekly to the Flint Water website.*

EPA Identified Deficiency #4: Respondents have not adequately demonstrated (e.g., using daily sampling information) that they are maintaining chlorine residual in the distribution system

(Paragraph 57) or continuing to add corrosion inhibitors at levels sufficient to re-optimize corrosion control in the distribution system (Paragraph 58).

- Assigned to Public Health Group in coordination with the City of Flint
- Work on completion of this task is ongoing.
 - *City of Flint and DEQ have agreed to engage with the EPA's Area-Wide Optimization Program (AWOP) for technical assistance.*
- **Item 68: "Preserve records and data for six years"**
 - The Administrative Group and the Legal Team have been assigned to this.
 - *This is an ongoing task.*
 - To ensure consistency, retain all records following General Schedule #5, specifically GS5.10. When contacted regarding disposal, all records will be put on a litigation hold for one additional year and not destroyed. Training will be conducted by DTMB Record Center to all DEQ staff to ensure consistency and understanding.
 - *This will be an ongoing task.*
 - Training will be conducted by the Department of Technology, Management and Budget's Records Center to all MDEQ staff to ensure consistency and understanding.

EPA Order Due Date: 01/21/2022

- **Item 68: "After six years, must notify EPA 60 calendar days prior to destruction of any data pertaining to this order"**
 - The Administrative Group and the Legal Team have been assigned to this task.
 - To ensure consistency, retain all records following General Schedule #5, specifically GS5.10. When contacted regarding disposal, all records will be put on a litigation hold for one additional year and not destroyed. U.S. EPA will be notified when the additional one-year litigation hold is put in place.
 - *This is an ongoing task.*