

Woosley, Rosemary (DEQ)

From: Marc Edwards <edwardsm@vt.edu>
Sent: Friday, September 18, 2015 11:45 PM
To: DEQFOIA
Subject: FOIA: Lead and Copper Rule Sampling Instructions Used by Flint for the past 25 years.

6675-15

RMD-EXEC

Lansing

Due: 9-28-15

In the letter from DEQ to *Sen. Ananich, State Reps Neeley and Phelps* regarding the 5 minute pre-flush in Flint drinking water, DEQ stated that:

"Flint's test results were conducted according to the same testing protocols every Michigan community uses and the same protocols Flint has used to test its water every three years for the past 25 years."

Please send me copies of the LCR sampling protocol instructions used by Flint for the past 25 years. In other words, I want to see copies of the documents upon which the above statement is made-- that prove Flint has been pre-flushing for 5 minutes before LCR sampling, over the last 25 years.

My address is: Marc Edwards; 407 Durham Hall; Virginia Tech; Blacksburg, VA 24061

Drinking Water Lead & Copper Sampling Instructions

Dear Resident:

Thank you for helping to monitor for lead and copper in your drinking water. It is important that you follow these instructions so that we may collect an accurate measurement of the lead and copper in your drinking water. This sample is supposed to represent the water you would typically drink and the faucet from where you would drink the water. Call your water supply if you have any questions.

1. Select a faucet in the KITCHEN or BATHROOM that is commonly used for drinking. DO NOT sample from a laundry sink or a hose spigot as these samples cannot be used by your utility.
2. Flush the COLD water for at least 5 minutes. Let the water sit for at least 6 hours **before** you plan to collect the sample. If you have a single handle faucet, turn it to the COLD side. DO NOT use this faucet again until it is sampled.
3. Wait at least 6 hours before collecting your sample but we do not recommend sampling if the faucet has sat idle for more than 12 hours.
4. Fill the sample bottle to the neck with the "first draw" of COLD water from the faucet that you flushed at least 6 hours previous.
5. Please answer the following questions:
 - a) Did you flush the water for at least 5 minutes and let it sit unused for 6 hours before you filled the bottle? ☐ Yes ☐ No
 - b) What date and time did you **flush the faucet**? Date _____ Time _____ P.M.
 - c) What date and time did you **fill the bottle**? Date _____ Time _____ A.M.
 - d) Did you fill the bottle from the same faucet that was flushed 6 hours before? ☐ Yes ☐ No
If NO, please explain: _____
 - e) Which faucet did you use to fill the bottle? ☐ Kitchen ☐ Main Bathroom ☐ Other
If OTHER, please describe: _____
 - f) Is this faucet connected to a home treatment device such as a water softener, a reverse osmosis unit, an iron removal device OR is any kind of additive used in the home? ☐ Yes ☐ No
If YES, please describe: _____

Your Printed Name _____

Your Address _____

Your Signature _____

6. Attach this form to the bottle and leave it outside your front door for pick-up.

If you have any questions call:

Water Supply: _____

Manager or
Water Operator: _____

Phone: _____

Or contact:

Michigan Department of Environmental Quality

DEQ contact: _____

Phone: _____

Thanks again for your help. Information on this year's lead and copper monitoring will be printed in the *Consumer Confidence Report* that will be made available to you by July 1 of next year. We will send you the results within 30 days of receiving them. Contact your utility if you have any questions.

Drinking Water Lead & Copper Sampling Instructions



Dear Resident:

Thank you for helping to monitor for lead and copper in the drinking water.

To get an accurate measurement of the lead or copper in the water, please sample from a faucet that has sat idle for 6 to 8 hours. DO NOT sample from a faucet that has not been used for an extended period of time such as a basement sink, guest bath or garden hose tap.

1. The night before you collect the sample, turn on the COLD tap of your kitchen or main bathroom sink and let it run for 3 to 4 minutes. If you have a single handle faucet, turn it to the COLD side.
2. Do not use the faucet for 6 to 8 hours.
3. In the morning, fill the sample bottle to the neck with the "first draw" of COLD water.
4. Please answer the following questions.

In the evening which faucet did you flush for 3 to 4 minutes?

- ☐ kitchen
- ☐ main bathroom

What time in the evening did you flush the faucet? _____ PM

What time in the morning did you fill the bottle? _____ AM

Your Name _____

Your Address _____

5. Attach this form to the bottle and leave it outside your front door for pick-up.

If you have any questions call:

Or call the Michigan Department of
Environmental Quality:

Manager or
Water Operator: _____

DEQ contact: _____

Phone: _____

Phone: _____

Thanks again for your help. The results will be printed in the *Consumer Confidence Report* that will be made available to you by July 1 of each year.

Drinking Water Lead & Copper Sampling Instructions

Dear Resident:

Thank you for helping to monitor for lead and copper in the drinking water.

To get an accurate measurement of the lead or copper in the water, please collect your sample after the water has sat idle for 6 to 8 hours. DO NOT sample from a faucet that has not been used for an extended period of time such as a basement sink, guest bath or garden hose tap. DO NOT use taps that are connected to water softeners or point-of-use treatment devices.

1. The night before you collect the sample, turn on the COLD faucet of your kitchen or main bathroom sink and let it run for 3 to 4 minutes. If you have a single handle faucet, turn it to the COLD side.
2. Do not use the water for 6 to 8 hours.
3. In the morning, fill the sample bottle to the neck with the "first draw" of COLD water from the faucet that you flushed the previous night.
4. Please answer the following questions:

Did you run the water for 3 to 4 minutes the night before you filled the bottle? ☐ Yes ☐ No

What date and time in the **evening** did you **run the water**? Date _____ Time _____ P.M.

What date and time in the **morning** did you **fill the bottle**? Date _____ Time _____ A.M.

Did you fill the bottle from the faucet you flushed the night before? ☐ Yes ☐ No

If No, please explain: _____

Which faucet did you use to fill the bottle? ☐ Kitchen ☐ Main Bathroom ☐ Other

If Other, please describe: _____

Your Printed Name _____

Your Address _____

Your Signature _____

5. Attach this form to the bottle and leave it outside your front door for pick-up.

If you have any questions call:

Water Supply: _____

Manager or
Water Operator: _____

Phone: _____

Or contact:

Michigan Department of Environmental Quality

DEQ contact: _____

Phone: _____

Thanks again for your help. Information on this year's lead and copper monitoring will be printed in the *Consumer Confidence Report* that will be made available to you by July 1 of next year.

1997 Pre-Compliance LEAD MONITORING PROGRAM

To safeguard public health, the United States Environmental Protection Agency (EPA) has issued a federal law that requires Public Water Utilities to minimize lead and copper in drinking water. After careful study and review by the Michigan Department of Environmental Quality (MDEQ), the Detroit Water and Sewerage Department has accomplished this by the addition of phosphoric acid at the treatment plants. To evaluate how effective our program has been, in 1997 we will collect water samples in selected homes to test for lead and copper. Your assistance is vital to this program.

**** SAMPLING INSTRUCTIONS ****

READ CAREFULLY

PROPER SAMPLING IS IMPORTANT FOR THIS STUDY!

1. The sample you will be collecting should be of water that has been standing undisturbed in your household plumbing for 6 to 8 hours. You may choose either the kitchen or bathroom **cold water** faucet to collect your sample. Separate HOT and COLD water faucets are preferable to SINGLE HANDLE faucets. The water line should be flushed thoroughly before the 6 to 8 hours of non-use. This can be done by running the cold water an additional minute after there is a noticeable change in the water temperature. After the lines have been flushed, note the date and time of flushing on the label. DO NOT use any water in the household for the next 6 to 8 hours. (For example: If you are collecting your sample at 6:00 AM then you must flush the line and stop using your water by 12:00 midnight.) This includes flushing toilets, doing laundry, running the dishwasher, etc. You might find it helpful to post notes in your bathrooms and kitchen reminding your family not to flush toilets or use the water during this time.
2. After the period of non-use, and before using any water, collect your sample from the cold water tap only. **Note:** Should there be an interruption in your water supply such as a water main break or household plumbing repair prior to sampling, do not collect the sample. **Also, do not collect a sample if the period of non-use exceeds 8 hours.** Notify your water department to arrange another sampling date.
3. Fill the bottle slowly, just to the neck and screw the cap on securely.
4. On the label provided write your address, the date and the time the sample was collected. Place the label on the bottle. (Make sure the label sticks to the bottle.)
5. Please leave your sample on your porch or in your doorway for collection on the date and time specified. Samples do not require refrigeration. If you have any questions or concerns, please contact you water department.

THANK YOU FOR YOUR COOPERATION AND PARTICIPATION.

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF DRINKING WATER AND MUNICIPAL ASSISTANCE
**LEAD AND COPPER REPORT AND
CONSUMER NOTICE OF LEAD RESULT
CERTIFICATE FOR COMMUNITY WATER SUPPLY**

DRAFT



Issued under authority of 1976 PA 399, MCL 325.1001 *et al.*, and Administrative Rules, as amended.

Failure to submit this information is a violation of Act 399 and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within 10 days after the end of the monitoring period. This form may be used to meet this requirement. Submit the information to the appropriate Department of Environmental Quality (DEQ) district office. For district office addresses, visit www.michigan.gov/deq and click on Locations.

1. Water Supply Name: City of Flint Water Plant
2. County: Genesee 3. WSSN: 2310
4. Population: 99,763 5. Monitoring Period: From: 1/1/15 To: 6/30/15
6. Minimum # of Samples Required: 10060 7. # of Samples Taken: 11 92 69
8. Name of Certified Laboratory: DEQ Drinking Water Laboratory

9. SAMPLE CRITERIA:

Yes	No	Explain No responses in Comments block.	
☐	☒	a. Are the same sampling points used as in the previous monitoring period?	
☐	☒	b. Are all samples from Tier 1 sites?	For more information see Instructions paragraph 11, subparagraph "Sample Category."
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?	
☒	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the system?	
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?	
Comments: A total of 175 sample bottles and instructions were distributed to city residents. We are continuing to solicit samples due to the fact that we did not reach the minimum number for this monitoring period. <i>Lead service - majority (30,000?)</i>			

10. NAME:

Name: Michael Glasgow
Title: Utilities Administrator Phone: 810-766-7135 Date: 7/28/2015

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF DRINKING WATER AND MUNICIPAL ASSISTANCE
**LEAD AND COPPER REPORT AND
CONSUMER NOTICE OF LEAD RESULT
CERTIFICATE FOR COMMUNITY WATER SUPPLY**



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1. Water Supply Name: City of Flint
2. County: Genesee 3. WSSN: 2310
4. Population: _____ 5. Monitoring Period: From: 7/1/2014 To: 12/31/2014
6. Minimum # of Samples Required: 100 7. # of Samples Taken: 100
8. Name of Certified Laboratory: MDEQ Drinking Water Laboratory

9. SAMPLE CRITERIA:

Yes	No	Explain No responses in Comments block.
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☐	☒	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☒	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?
For more information see <i>Instructions</i> paragraph 11, subparagraph "Sample Category."		
Comments: The increased number of samples required has led to many new sample sites.		

10. NAME:

Name: Michael Glasgow
Title: Assistant Water Plant Supervisor Phone: (810)787-6537 Date: 2/27/15

Drinking Water Lead & Copper Report & Certificate



1. System Name: Flint 2. WSSN: 2310
 1a. County: Genesee
 3. Population: 102,434 4. Monitoring Period: From: 6/2011 To: 9/2011
 5. Minimum # of Samples Required: 23 6. # of Samples Taken: 11 of 23
 7. Name of Certified Laboratory: DWSD - Water Quality Laboratory 12 of 23
 8. SAMPLE CRITERIA: 2 samples

Yes	No	
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☐	☒	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☒	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the water system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?

For more information see Instructions paragraph 10, subparagraph "Sample Category".

Comments: NEW SITES USED DUE TO VACANT HOMES, + UNWILLING CUSTOMER PARTICIPATION.

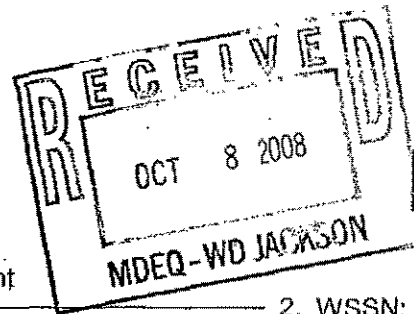
9. CERTIFICATION:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e., one liter first draw samples following at least six hours of stagnation and that where necessary, proper instructions were given for homeowner collection).

Signature <u>Michael Flanagan</u>	Phone: <u>(810) 787-6537</u>
Title: <u>LABORATORY & WATER QUALITY SUPERVISOR</u>	Date: <u>9/21/11</u>

Michael Flanagan 9/30/11
Michael Flanagan 10/24/11

Drinking Water Lead & Copper Report & Certificate



1. System Name: Flint 2. WSSN: 2310
 1a. County: Genesee
 3. Population: 100,000 4. Monitoring Period: From: 6/2008 To: 9/2008
 5. Minimum # of Samples Required: 33 6. # of Samples Taken: 33
 7. Name of Certified Laboratory: DWSD - Water Quality Lab / KAR Laboratories, Inc.

8. SAMPLE CRITERIA:

Yes	No	
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☒	☒	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☒	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the water system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?

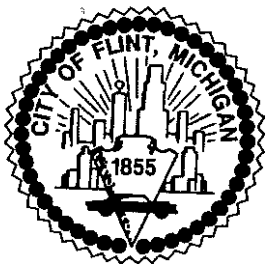
For more information see Instructions paragraph 10, subparagraph "Sample Category".

Comments: 11 SAMPLES DELIVERED on 9/9/08
 12 SAMPLES DELIVERED on 9/18/08
 8 SAMPLES DELIVERED on 9/25/08

9. CERTIFICATION:

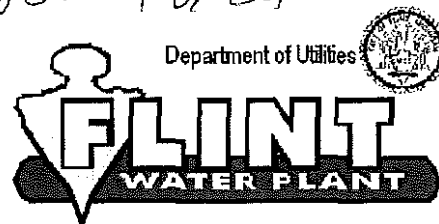
I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e., one liter first draw samples following at least six hours of stagnation and that where necessary, proper instructions were given for homeowner collection).

Signature: <u>Michael Hargrove</u>	Phone: <u>(810) 787-6537 ext. 3512</u>
Title: <u>LABORATORY + WATER QUALITY SUPERVISOR</u>	Date: <u>9/30/08</u>



Donald J. Williamson
Mayor

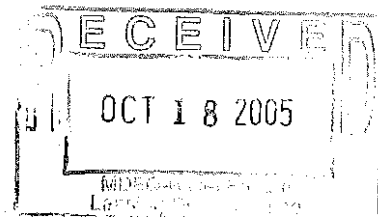
DEPARTMENT OF UTILITIES
Water Plant & Facilities



William C. Daniels II
Operations & Technical Supervisor

October 13, 2005

Michael Prysby
Department of Environmental Quality
District Engineer



Mr. Michael Prysby,

Enclosed are the results from our 2005 lead and copper sampling. I was unable to sample from all addresses on our list. I sent out approximately 100 letters to residents at those addresses and surrounding ones. I only received 3 responses. I utilized other City of Flint employees to collect samples. I only used addresses that were relatively close to the original list. If you have any questions or comments, please contact Bill Daniels, or myself.

Thank you,

Mike Glasgow
City of Flint Water Plant
Laboratory & Water Quality Supervisor
(810)787-6537 ext. 3512
Mglasgow@cityofflint.com

Drinking Water Lead & Copper Report & Certificate



1. System Name: Flint 2. WSSN: 2310
 1a. County: Genesee
 3. Population: _____ 4. Monitoring Period: From: 6/2005 To: 9/2005
 5. Minimum # of Samples Required: 33 6. # of Samples Taken: 33
 7. Name of Certified Laboratory: DWSD – Water Quality Lab / KAR Laboratories, Inc.

8. SAMPLE CRITERIA:

Yes	No	
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☐	☒	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☒	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the water system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?

For more information see Instructions paragraph 10, subparagraph "Sample Category".

Comments:

9. CERTIFICATION:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e., one liter first draw samples following at least six hours of stagnation and that where necessary, proper instructions were given for homeowner collection).

Signature <u>Mike Hegan</u>	Phone: <u>(810) 787-6537</u>
Title: <u>LABORATORY + WATER QUALITY SUPERVISOR</u>	Date: <u>9/23/05</u> <u>9/24/05</u>

Drinking Water Lead & Copper Report & Certificate



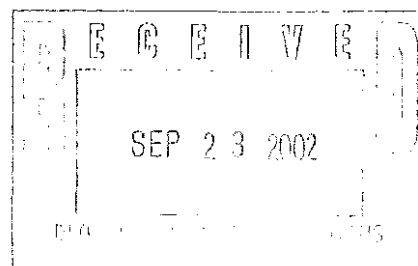
1. System Name: Flint 2. WSSN: **2310**
 1a. County: Genesee
 3. Population: 137,500 4. Monitoring Period: From: 6/2002 To: 9/2002
 5. Minimum # of Samples Required: 33 6. # of Samples Taken: 33
 7. Name of Certified Laboratory: DWSD – Water Quality Lab / KAR Laboratories, Inc.

8. SAMPLE CRITERIA:

Yes	No	
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☒	☐	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☐	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the water system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?

For more information see Instructions paragraph 10, subparagraph "Sample Category".

Comments:



9. CERTIFICATION:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e., one liter first draw samples following at least six hours of stagnation and that where necessary, proper instructions were given for homeowner collection).

Signature: <u><i>Jeffrey A. Buser</i></u>	Phone: <u>810/245-8503</u>
Title: <u>Drinking Water Plant Supervisor</u>	Date: <u>7/25/02</u>

LEAD/COPPER REPORTING

1. SYSTEM NAME: Flint 2. WSSN: 2310
 3. Population: 120,000 4. Monitoring Period: From: 6/2001 To: 9/2001
 5. Minimum No. Of Samples Required: 33 6. No. Of Samples Taken: 33
 7. Name of Certified Laboratory: KAR Laboratories Inc.

8. Sample Criteria:

- a. Tier 2 or Tier 3 Sites Used? Yes _____ No X
 (If yes, explain why below)
- b. Same sampling points used as in previous monitoring period?
 (For 2nd & all subsequent monitoring period) Yes _____ No X
 (If no, explain why below)
- c. Minimum required number of Lead Service Line samples
 taken? Yes _____ No _____
 (If no, explain why below) X _____
 Explanations:

Eight (8) sampling locations from the last monitoring period were unavailable to participate. The additions for this period have been placed at the end of the "Tap Sampling Data" list. All meet tier 1 specifications.

Certification:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e. one liter first draw samples following at least six hours of stagnation and that where necessary, proper instruction were given for homeowner collection).

Signature: David M. Janssen
 Title: Assistant Supervisor Date: 6/28/01

LEAD/COPPER REPORTING

1. SYSTEM NAME: Flint 2. WSSN: 2310
3. Population: _____ 4. Monitoring Period: From: 6/2000 To: 9/2000
5. Minimum No. Of Samples Required: 33 6. No. Of Samples Taken: 31 of 33
7. Name of Certified Laboratory: DWSD - Water Works Park / KAR Laboratories Inc.

8. Sample Criteria:

- a. Tier 2 or Tier 3 Sites Used? Yes _____ No X
(If yes, explain why below)
- b. Same sampling points used as in previous monitoring period?
(For 2nd & all subsequent monitoring period) Yes _____ No X
(If no, explain why below)
- c. Minimum required number of Lead Service Line samples
taken? Yes _____ No _____
(If no, explain why below) X
- Explanations: _____

*Ten (10) sampling locations from the last monitoring period were unavailable to participate. The additions for this period have been placed at the end of the "Tap Sampling Data" list. All meet tier 1 specifications.

Site Codes G72/2310-30 and G85/2310-43 have not been collected. The expected collection dates are the week of June 25, 2000 and upon collection will be brought to DWSD Lab with in 10 days.

Certification:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e. one liter first draw samples following at least six hours of stagnation and that where necessary, proper instruction were given for homeowner collection).

Signature: _____

David JansenTitle: Assistant Supervisor Date: 6-23-00

LEAD/COPPER REPORTING

1. SYSTEM NAME: Flint 2. WSSN: 2310
3. Population: _____ 4. Monitoring Period: From: 6/2000 To: 9/2000
5. Minimum No. Of Samples Required: 33 6. No. Of Samples Taken: 2 of 33
7. Name of Certified Laboratory: DWSD - Water Works Park / KAR Laboratories Inc.

8. Sample Criteria:

- a. Tier 2 or Tier 3 Sites Used? Yes _____ No X
(If yes, explain why below)
- b. Same sampling points used as in previous monitoring period?
(For 2nd & all subsequent monitoring period) Yes _____ No X
(If no, explain why below)
- c. Minimum required number of Lead Service Line samples
taken? Yes _____ No _____
(If no, explain why below) X
- Explanations:

Site Codes G72/2310-30 and G85/2310-43 are the balance of 33 total samples. G85 is an addition and has been placed at the end of the "Tap Sampling Data" list. Both above samples meet tier 1 specifications.

Certification:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e. one liter first draw samples following at least six hours of stagnation and that where necessary, proper instruction were given for homeowner collection).

Signature: David Jansen
Title: asst. Water Plant Supv. Date: 6/30/00

LEAD/COPPER REPORTING

1. SYSTEM NAME: Flint 2. WSSN: 23103. Population: _____ 4. Monitoring Period: From: 1/99 To: 6/995. Minimum No. Of Samples Required: 33 6. No. Of Samples Taken: 337. Name of Certified Laboratory: DWSD - Water Works Park / KAR Laboratories Inc.

8. Sample Criteria:

a. Tier 2 or Tier 3 Sites Used? Yes _____ No X
(If yes, explain why below)b. Same sampling points used as in previous monitoring period?
(For 2nd & all subsequent monitoring period) Yes _____ No X
(If no, explain why below)c. Minimum required number of Lead Service Line samples
taken? Yes X No _____
(If no, explain why below)

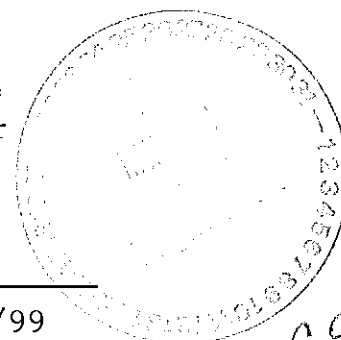
Explanations:

*Six (6) sampling locations from the last monitoring period were unavailable to participate. The additions for this period have been placed at the end of the "Tap Sampling Data" list. All meet tier 1 specifications.

Certification:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e. one liter first draw samples following at least six hours of stagnation and that where necessary, proper instruction were given for homeowner collection).

Signature: _____

David M. JansenTitle: Assistant Supervisor Date: 3/25/99

Handwritten signature and date:
4/2/99
10/1/99

LEAD/COPPER REPORTING

1. SYSTEM NAME: Flint 2. WSSN: 2310
3. Population: _____ 4. Monitoring Period: From: 7/98 To: 12/98
5. Minimum No. Of Samples Required: 33 6. No. Of Samples Taken: 33
7. Name of Certified Laboratory: DWSD - Water Works Park

8. Sample Criteria:

- a. Tier 2 or Tier 3 Sites Used? Yes _____ No x
(If yes, explain why below)
- b. Same sampling points used as in previous monitoring period? Yes _____ No x
(For 2nd & all subsequent monitoring period)
(If no, explain why below)
- c. Minimum required number of Lead Service Line samples taken? Yes _____ No _____
(If no, explain why below) x
- Explanations: _____

*Seven (7) sampling locations from the last monitoring period were unavailable to participate. The additions for this period have been placed at the end of the "Tap Sampling Data" list. All meet tier 1 specifications.

Certification:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e. one liter first draw samples following at least six hours of stagnation and that where necessary, proper instruction were given for homeowner collection).

Signature: _____

Title: Asst SupervisorDate: 10/8/98

LEAD/COPPER REPORTING

1. SYSTEM NAME: Flint 2. WSSN: 2310
3. Population: _____ 4. Monitoring Period: From: 7/97 To: 12/97
5. Minimum No. Of Samples Required: 33 6. No. Of Samples Taken: 33
7. Name of Certified Laboratory: DWSD - Water Works Park

8. Sample Criteria:

- a. Tier 2 or Tier 3 Sites Used? Yes _____ No X
(If yes, explain why below)
- b. Same sampling points used as in previous monitoring period?
(For 2nd & all subsequent monitoring period) Yes _____ No X
(If no, explain why below)
- c. Minimum required number of Lead Service Line samples
taken? Yes _____ No _____
(If no, explain why below) X
- Explanations:

Some sampling locations used in previous monitoring period no longer available.
Not able to contact or secure approval for sampling in some previously
used monitoring locations.

Certification:

I hereby certify that to the best of my knowledge, all tap
samples were collected in the manner specified by EPA
lead/copper regulations (i.e. one liter first draw samples
following at least six hours of stagnation and that where
necessary, proper instruction were given for homeowner
collection).

Signature: G Robert CarlyTitle: FWP SupervisorDate: 11/20/97

LEAD/COPPER REPORTING

1. SYSTEM NAME: Flint 2. WSSN: 2310
3. Population: _____ 4. Monitoring Period: From: 3/97 To: 6/97
5. Minimum No. Of Samples Required: 33 6. No. Of Samples Taken: 33
7. Name of Certified Laboratory: DWSD - Water Works Park

8. Sample Criteria:

- a. Tier 2 or Tier 3 Sites Used? Yes _____ No ✓
(If yes, explain why below)
- b. Same sampling points used as in previous monitoring period?
(For 2nd & all subsequent monitoring period)
(If no, explain why below) Yes _____ No ✓
- c. Minimum required number of Lead Service Line samples
taken? Yes _____ No ✓
(If no, explain why below)
- Explanations:

Some sampling locations used in previous monitoring period no longer available. Not able to contact or secure approval for sampling in some previously used monitoring locations.

Certification:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e. one liter first draw samples following at least six hours of stagnation and that where necessary, proper instruction were given for homeowner collection).

Signature: David JansenTitle: Asst. Water PlantSupervisorDate: 5/15/97

SHEET 1 OF 3

1. SYSTEM NAME: City of Flint Water Plant & Facilities 2. WSSN: 2310
3. POPULATION: 140,761 4. MONITORING PERIOD: from: 7/92 to 12/92
5. MINIMUM # OF SAMPLES REQUIRED: 33 6. # OF SAMPLES TAKEN: 33
7. NAME OF CERTIFIED LABORATORY: Prein and Newhof, P.C.

8. SAMPLE CRITERIA:

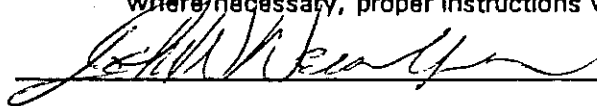
- a. Tier 2 of 3 Sites Used? Yes _____ No X
(if yes, explain why below)
b. Same sampling points used in previous monitoring period (for 2nd and all subsequent monitoring periods)? Yes _____ No X
(if no explain why below)
c. Minimum required number of lead service line samples taken (when applicable)?
Yes X No _____ (if no, explain why below)

Explanations:

310 E. Foss; unable to contact for second round; former resident no longer there and new resident did not wish to participate, substituted 238 Peer Ave.

9. CERTIFICATION:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e., one liter first draw samples following at least six hours of stagnation and that where necessary, proper instructions were given for homeowner collection).

SIGNATURE:  DATE: 11/11/92

TITLE: John W. Weisenberger, Supervisor PHONE: (313) 787-6537

ADDRESS: Flint Water Plant & Facilities

4500 N. Dort Hwy.

Flint, MI 48505

LEAD/COPPER REPORTINGDRAFT
12-6-91

1. SYSTEM NAME: City of Flint Water Plant & Facilities 2. WSSN: 2310
3. Population: 140,761 4. MONITORING PERIOD: From: 1/92 To: 6/92
5. Minimum # of Samples Required: 33 6. # of Samples Taken: 33
7. NAME OF CERTIFIED LABORATORY: Prein & Newhof, P.C.
XX
8. SAMPLE CRITERIA:
- a. Tier 2 or 3 Sites Used? Yes _____ No X
(If yes, explain why below)
- b. Same sampling points used as in previous monitoring period (for 2nd and all subsequent monitoring periods)? Yes _____ No _____
(If no, explain why below)
- c. Minimum required number of lead service line samples taken (when applicable)? Yes X No _____ (If no, explain why below)

Explanations:

9. CERTIFICATION:

I hereby certify that to the best of my knowledge, all tap samples were collected in the manner specified by EPA lead/copper regulations (i.e., one liter first draw samples following at least six hours of stagnation and that where necessary, proper instructions were given for homeowner collection).

Signature: _____

Title: SupervisorDate: 4/29/92

Flint Water Plant & Facilities