



**HARVEST-MONROVIA WATER, SEWER AND FIRE PROTECTION  
AUTHORITY**

**PWSID# AL0000878**

**LEAD AND COPPER SAMPLING PLAN  
2022**

## **PURPOSE**

The purpose of this Monitoring Plan is to provide a guide to ADEM, Harvest-Monrovia Water, Sewer and Fire Protection Authority employees, and customers to know the criteria for selection of sampling sites to complete the required Lead and Copper Sampling.

## SYSTEM INFORMATION

System Name: Harvest-Monrovia Water, Sewer and Fire Protection Authority

PWSID Number: AL0000878

Address: P O Box 329  
Harvest, Alabama 35749

|   |  |              |
|---|--|--------------|
| Contacts: Mike Oliver – General Manager | <a href="mailto:mikeo@hmwater.org">mikeo@hmwater.org</a> | 256-837-1132 |
| Matt Parvin – Chief Water Operator      | <a href="mailto:matt@hmwater.org">matt@hmwater.org</a>   | 256-382-0215 |

System Type: Community

Population Served: 18,558 Customers    Population approximately 55,674

Certified Testing Lab: Pace Analytical  
12065 Lebanon Road  
Mt. Juliet, TN 37122  
Phone 615-758-5858

Secondary Lab: Pace Analytical  
3516 Greensboro Avenue  
Tuscaloosa, Alabama 35401  
Phone 205-345-0816



# Water Supply Permit

**PERMITTEE:** Harvest-Monrovia Water, Sewer & Fire Protection, Inc.

**FACILITY LOCATION:** Madison County

**PERMIT NUMBER:** 2022-542

**PWSID NUMBER:** AL0000878

**PUBLIC WATER SYSTEM:**

The Harvest-Monrovia Water, Sewer & Fire Protection, Inc serves approximately 18,558 customers and consists of:

**Sources:** The 10.0 MGD Burwell WTP is supplied by Well #3, Well #4, Well #5, and Well #7. The 4.1 MGD Mt. Zion WTP is supplied by Well #1, Well #6, and Well #8. Well #2 has a permitted capacity of 110 gpm.

**Water Treatment/CT:** **Burwell WTP: Mechanical Treatment;** Mixing, Flocculation, Filtration @ 6.0 gpm/ft<sup>2</sup>. **Chemical Treatment;** Alum, Corrosion Inhibitor, Chlorine (CT=302 @ 1.00 ppm), Fluoride.

**Mt. Zion WTP: Mechanical Treatment;** Mixing, Membrane Filtration. **Chemical Treatment;** Corrosion Inhibitor, Chlorine (CT=86 @ 1.00 ppm), Fluoride.

**Well #2 WTP: Mechanical Treatment;** None. **Chemical Treatment;** Chlorine, Corrosion Inhibitor.

**Clearwells:** Two baffled clearwells with a total capacity of 3,350,000 gallons: One (1) 3,000,000 gallon and one (1) 350,000 gallon clearwell.

**Storage Facilities:** Five (5) ground tanks and two (2) elevated tanks with a total volume of 11,500,000 gallons.

**Booster Pump Stations:** Three (3) pump stations.

**Distribution System:** Approximately 660 miles of water main consisting of 181 miles of cast/ductile iron water main and 479 miles of PVC water main.

**Connections to Additional Systems:** Emergency connections exist with the Madison Water Works, the Limestone County Water Authority, Madison County Water Department and the Huntsville Utilities.

*In accordance with and subject to the provisions of the Alabama Safe Drinking Water Act of 1977, as amended, Code of Alabama 1975, SS22-23-30 to 22-23-53 (the "ASDWA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, SS22-22A-1 to 22-22A-17, and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the permittee is authorized to furnish and continue to furnish and supply water to human beings from the above described public water system.*

**ISSUANCE DATE:** June 3, 2021  
**EFFECTIVE DATE:** October 1, 2021  
**EXPIRATION DATE:** September 30, 2027

**SPECIAL CONDITIONS APPLY**

  
Alabama Department of Environmental Management

## Lead and Copper Rule (LCR)

EPA promulgated the Lead and Copper Rule (LCR) in 1991, and ADEM adopted the rule in 1992. Implementation of this rule is a critical component of ADEM's efforts to protect public health and ensure the safety of our state's drinking water. The following information outlines how the LCR is implemented and identifies ways for the public to find information about the quality of its drinking water.

- The LCR has four basic requirements:
  1. Require water systems to optimize their treatment system to control corrosion in the distribution system and the customer's plumbing;
  2. Determine tap water levels of lead and copper for customers who have lead service lines or lead-based solder in their plumbing system;
  3. Rule out the source water as a source of significant lead levels; and
  4. If lead action levels are exceeded, the water system is required to take additional actions, which may include:
    - a. Developing and implementing a plan to optimize corrosion control in the finished drinking water;
    - b. Educating their customers about lead and suggesting actions they can take to reduce their exposure to lead through public notices and public education programs;
    - c. Replacing the portions of lead service lines under the system's control; and
    - d. Offering to replace lead service lines under their customers' control at an equitable cost to the customer.
- The LCR requires water systems to monitor at least every 3 years. Some water systems monitor more frequently. The water system selects the sites based on criteria set out in the rule. The criteria for the lead and copper sampling sites are:
  1. Tier 1 sites--These sites include single family structures containing lead pipe or plumbing, are served by a lead service line, or contain copper pipes with lead solder and were constructed after 1982.
  2. Tier 2 sites--These sites include buildings and multiple family residences containing lead pipe or plumbing, are served by a lead service line, or contain copper pipes with lead solder and were constructed after 1982.
  3. Tier 3 sites--These sites include single family structures containing copper pipes with lead solder which were constructed prior to 1983.
- The LCR prescribes a specific sampling protocol for water systems to utilize for collecting lead and copper samples at a residence or business (see below).
  1. Tap monitoring (collecting a water sample from a faucet) for lead and copper shall be the first draw and one liter in volume.
  2. The water shall stand motionless in the plumbing system for at least six hours prior to collection. Pre-stagnation flushing shall not be performed.
  3. Collection shall be from the cold water kitchen tap or bathroom sink tap from tier 1 sites or from an interior tap typically used for obtaining water for consumption from tier 2 and tier 3 sites.
  4. Aerators shall not be removed from taps or cleaned prior to or during the collection of samples.
  5. Wide-mouth bottles shall be used to collect samples to allow for a higher flow rate during sample collection which is more representative of the flow that a consumer may use to fill a glass of water.
  6. Monitoring may be conducted by the resident after proper instructions and procedures have been provided by the water system.
  7. Follow up tap monitoring shall be conducted from the same sites.
  8. Should a site no longer be available, an alternate acceptable site may be selected which is in reasonable proximity of the original site.
  9. Taps used for monitoring may not include faucets that have point of use or treatment devices installed.
- EPA published a [memo clarifying recommended tap sampling procedure for the LCR](#) on February 29, 2016, to provide recommendations on how public water systems should address the removal of cleaning aerators, pre-stagnation flushing, and bottle configuration for the purpose of the LCR.
- More information on the LCR can be found on EPA's website at: <http://www.epa.gov/dwreginfo/lead-and-copper-rule>.
- EPA's LCR Quick Reference Guide can be found at: [LCR Quick Reference Guide](#)
- EPA's [Optimal Corrosion Control Treatment Evaluation Technical Recommendations](#) webpage provides information to help primacy agencies and systems comply with corrosion control treatment (CCT) requirements of the Lead and Copper Rule (LCR), including designation of Optimal Corrosion Control Treatment (OCCT).
- More information specifically about your drinking water system can be found in your water system's Annual Consumer Confidence Report (Water Quality Report) available at your water system or on its website. These reports are also submitted to ADEM, so they are available in ADEM's [eFile](#) system. You can also find information at EPA's Enforcement and Compliance History Online (ECHO) web site at: <https://echo.epa.gov/>




UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

FEB 29 2016

OFFICE OF  
WATER

MEMORANDUM

SUBJECT: Clarification of Recommended Tap Sampling Procedures for Purposes of the Lead and Copper Rule

FROM: Peter C. Grevatt, Director  
Office of Ground Water & Drinking Water 

TO: Water Division Directors  
Regions I - X

The Lead and Copper Rule, 40 C.F.R. Sections 141.80 to 141.91, requires monitoring at consumer taps to identify levels of lead in drinking water that may result from corrosion of lead-bearing components in a public water system's distribution system or in household plumbing. These samples help assess the need for, or the effectiveness of, corrosion control treatment. The purpose of this memorandum is to provide recommendations on how public water systems should address the removal and cleaning of aerators, pre-stagnation flushing, and bottle configuration for the purpose of Lead and Copper Rule sampling.

Removal and Cleaning of Aerators

EPA issued a memorandum on *Management of Aerators during Collection of Tap Samples to Comply with the Lead and Copper Rule* on October 20, 2006. This memorandum stated that EPA recommends that homeowners regularly clean their aerators to remove particulate matter as a general practice, but states that public water systems should not recommend the removal or cleaning of aerators prior to or during the collection of tap samples gathered for purposes of the Lead and Copper Rule. EPA continues to recommend this approach. The removal or cleaning of aerators during collection of tap samples could mask the added contribution of lead at the tap, which may potentially lead to the public water system not taking additional actions needed to reduce exposure to lead in drinking water. EPA's recommendation about the removal and cleaning of aerators during sample collection applies only to monitoring for lead and copper conducted pursuant to 40 C.F.R. 141.86.

Pre-Stagnation Flushing

EPA is aware that some sampling instructions provided to residents include recommendations to flush the tap for a specified period of time prior to starting the minimum 6-hour stagnation time required for samples collected under the Lead and Copper Rule. This practice is called pre-stagnation flushing. Pre-stagnation flushing may potentially lower the lead levels as compared to when it is not practiced.

Flushing removes water that may have been in contact with the lead service line for extended periods, which is when lead typically leaches into drinking water. Therefore, EPA recommends that sampling instructions not contain a pre-stagnation flushing step.

#### Bottle Configuration

EPA recommends that wide-mouth bottles be used to collect Lead and Copper compliance samples. It has become apparent that wide-mouth bottles offer advantages over narrow-necked bottles because wide-mouth bottles allow for a higher flow rate during sample collection which is more representative of the flow that a consumer may use to fill up a glass of water. In addition, a higher flow rate can result in greater release of particulate and colloidal lead and therefore is more conservative in terms of identifying lead concentrations.

#### Conclusion

EPA is providing these recommendations for collection of Lead and Copper Rule tap samples to better reflect the state of knowledge about the fate and transport of lead in distribution systems. The three areas discussed above may potentially lead to samples that erroneously reflect lower levels of lead concentrations. The recommendations in this memorandum are also consistent with the recommendations provided by the EPA's Flint Task Force. For more information about the Task Force please view EPA's website at: <http://www.epa.gov/flint>.

To provide further information on this topic, EPA included an amended "Suggested Directions for Homeowner Tap Sample Collection Procedures" in Appendix D of the 2010 revision of *Lead and Copper Rule Monitoring and Reporting Guidance for Public Water Systems* (EPA 816-R-10-004). This document can be found at: <http://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P100DP2P.txt>

Please share these recommendations with your state drinking water program directors. If you have any questions, please contact Anita Thompkins at [thompkins.anita@epa.gov](mailto:thompkins.anita@epa.gov).

Attachment

cc: James Taft, Association of State Drinking Water Administrators

## Lead & Copper MCLs

| Contaminant | MCL in mg/l |
|-------------|-------------|
| Lead        | 0.015       |
| Copper      | 1.3         |

## Lead & Copper Monitoring Sites

| System Size (Population) | Initial Monitoring | Reduced Monitoring |
|--------------------------|--------------------|--------------------|
|                          | Sites              | Sites              |
| >100,000                 | 100                | 50                 |
| <b>10,001-100,000</b>    | <b>60</b>          | <b>30</b>          |
| 3,301-10,000             | 40                 | 20                 |
| 501-3,300                | 20                 | 10                 |
| 101-500                  | 10                 | 5                  |
| <10                      | 5                  | 5                  |

Sample sites for Community systems - Community water systems must collect all lead and copper samples from tier one sites or document the lack of insufficient sites and collect remaining samples from tier two sites. Water systems with insufficient tier one and two sites may utilize tier three sites.

Tier one sites – These sites include single family structures containing lead pipe or plumbing, are served by a lead service line, or contain copper pipes with lead solder and were constructed after 1982.

Tier two sites – These sites include buildings and multiple family residences containing lead pipe or plumbing, are served by a lead service line, or contain copper pipes with lead solder and were constructed after 1982.

Tier three sites – These sites include single family structures containing copper pipes with lead solder which were constructed prior to 1983.



## **Sampling Site Information**

Harvest-Monrovia Water, Sewer and Fire Protection Authority were required to take 60 samples for the original Lead and Copper sampling in 1993. The current sampling number is 30 samples on the reduced sampling sites requirements. All sites sampled for the original sampling requirements were Tier 1 sites. Tier 1 sites are currently being used for the reduced monitoring.

Appendix A: List of sample sites. All samples since 1993 have been taken from the original 60 sites. 30 samples have been taken each sampling period out of the 60 original sites.

Appendix B: Contains sample customer letters.

Appendix C: Contains instructions for the customers on how to take the samples and provide the information to the Authority.

Appendix D: Contains customer sample letter of results.

Appendix E: Contains letters and results used to report to ADEM.

**APPENDIX A**

Harvest-Monrovia Water Authority Lead & Copper Sample Sites AL0000878

| Address                                   | Tier | Year Built | Address                                     | Tier | Year Built |
|---|------|------------|---|------|------------|
| 108 Timberland Trce<br>Madison AL 35757   | 1    | 1988       | 111 Erle Phillips Rd<br>Huntsville AL 35806 | 1    | 1985       |
| 107 Richard Brown Rd<br>Harvest AL 35749  | 1    | 1987       | 110 Richard Brown Rd<br>Harvest AL 35749    | 1    | 1986       |
| 130 Timberland Trce<br>Madison AL 35757   | 1    | 1986       | 113 Timberland Trce<br>Madison AL 35757     | 1    | 1987       |
| 116 Water Oak Ct<br>Harvest AL 35749      | 1    | 1985       | 107 Timberland Trce<br>Madison AL 35757     | 1    | 1987       |
| 121 Vasser Cir<br>Harvest AL 35749        | 1    | 1986       | 102 Ce-Lee Dr<br>Huntsville AL 35806        | 1    | 1987       |
| 109 Ce-Lee Dr<br>Huntsville AL 35806      | 1    | 1987       | 110 Ce-Lee Dr<br>Huntsville AL 35806        | 1    | 1986       |
| 103 Vasser Cir<br>Harvest AL 35749        | 1    | 1987       | 112 Hunter Brown Rd<br>Huntsville AL 35806  | 1    | 1984       |
| 112 Scarlet Oak Cir<br>Harvest AL 35749   | 1    | 1986       | 106 Northwood Cir<br>Harvest AL 35749       | 1    | 1984       |
| 231 Rosecliff Dr<br>Harvest AL 35749      | 1    | 1987       | 100 Scarlet Oak Cir<br>Harvest AL 35749     | 1    | 1986       |
| 132 Water Oak Ct<br>Harvest AL 35749      | 1    | 1985       | 104 Scarlet Oak Cir<br>Harvest AL 35749     | 1    | 1986       |
| 110 Scarlet Oak Cir<br>Harvest AL 35749   | 1    | 1987       | 115 Northwood Cir<br>Harvest AL 35749       | 1    | 1985       |
| 111 Water Oak Ct<br>Harvest AL 35749      | 1    | 1988       | 105 Ce-Lee Dr<br>Huntsville AL 35806        | 1    | 1988       |
| 123 Jenni Leigh Dr<br>Huntsville AL 35806 | 1    | 1987       | 102 Scarlet Oak Cir<br>Harvest AL 35749     | 1    | 1986       |
| 116 Timberland Trce<br>Madison AL 35757   | 1    | 1987       | 105 Northwood Cir<br>Harvest AL 35749       | 1    | 1986       |
| 116 Woodfield Dr<br>Madison AL 35757      | 1    | 1988       | 102 Jenni Leigh Dr<br>Huntsville AL 35806   | 1    | 1987       |

Harvest-Monrovia Water Authority Lead & Copper Sample Sites AL0000878

| Address              | Tier | Year Built |
|----------------------|------|------------|
| 197 Northwood Dr     | 1    | 1987       |
| Harvest AL 35749     |      |            |
| 106 Vasser Cir       | 1    | 1987       |
| Harvest AL 35749     |      |            |
| 129 Water Oak Ct     | 1    | 1985       |
| Harvest AL 35749     |      |            |
| 111 Gibbon Dr        | 1    | 1987       |
| Harvest AL 35749     |      |            |
| 118 Timberland Trce  | 1    | 1988       |
| Madison AL 35757     |      |            |
| 133 Water Oak Ct     | 1    | 1985       |
| Harvest AL 35749     |      |            |
| 105 Richard Brown Rd | 1    | 1986       |
| Harvest AL 35749     |      |            |
| 265 Northwood Dr     | 1    | 1984       |
| Harvest AL 35749     |      |            |
| 137 Timberland Trce  | 1    | 1987       |
| Madison AL 35757     |      |            |
| 107 Scarlet Oak Cir  | 1    | 1986       |
| Harvest AL 35749     |      |            |
| 208 Meadow Crest Dr  | 1    | 1983       |
| Madison AL 35757     |      |            |
| 147 Timberland Trce  | 1    | 1986       |
| Madison AL 35757     |      |            |
| 156 Mill Stream Dr   | 1    | 1983       |
| Huntsville AL 35806  |      |            |
| 230 Rosecliff Dr     | 1    | 1987       |
| Harvest AL 35749     |      |            |
| 423 Ita Ann Ln       | 1    | 1986       |
| Madison AL 35757     |      |            |

| Address             | Tier | Year Built |
|---------------------|------|------------|
| 127 Southview Dr    | 1    | 1985       |
| Huntsville AL 35806 |      |            |
| 102 Northwood Cir   | 1    | 1985       |
| Harvest AL 35749    |      |            |
| 109 Jenni Leigh Dr  | 1    | 1988       |
| Huntsville AL 35806 |      |            |
| 832 Pine Grove Rd   | 1    | 1987       |
| Harvest AL 35749    |      |            |
| 111 Ce-Lee Dr       | 1    | 1986       |
| Huntsville AL 35806 |      |            |
| 133 Timberland Trce | 1    | 1986       |
| Madison AL 35757    |      |            |
| 269 Alt Harvest Rd  | 1    | 1987       |
| Harvest AL 35749    |      |            |
| 144 Timberland Trce | 1    | 1987       |
| Madison AL 35757    |      |            |
| 127 Hunter Brown Rd | 1    | 1984       |
| Huntsville AL 35806 |      |            |
| 134 Southview Dr    | 1    | 1985       |
| Huntsville AL 35806 |      |            |
| 1055 Capshaw Rd     | 1    | 1984       |
| Madison AL 35757    |      |            |
| 110 Brookville Dr   | 1    | 1987       |
| Harvest AL 35749    |      |            |
| 106 Timberland Trce | 1    | 1986       |
| Madison AL 35757    |      |            |
| 103 Brookville Dr   | 1    | 1987       |
| Harvest AL 35749    |      |            |
| 118 Water Oak Ct    | 1    | 1986       |
| Harvest AL 35749    |      |            |



**ALABAMA  
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

Leigh Pegues, Director

Guy Hunt  
Governor

1751 Cong. W. L.  
Dickinson Drive  
Montgomery, AL  
36130  
(205) 271-7700  
FAX 271-7950  
270-5612

November 5, 1992

HARVEST-MONROVIA WATER  
ATTN: JAMES ATCHELY  
P O BOX 5  
HARVEST AL 35749

**Field Offices:**

110 Vulcan Road  
Birmingham, AL  
35209  
(205) 942-6168  
FAX 941-1602

RE: Lead/Copper Monitoring

P.O. Box 953  
Decatur, AL  
35602  
(205) 953-1713  
FAX 340-9359

ATTN: JAMES ATCHELY:

2204 Perimeter Road  
Mobile, AL  
36615  
(205) 450-3400  
FAX 479-2593

As you are selecting lead and copper monitoring sites, please remember that Tier 1 sites should include only those homes built between 1983 and 1988, since after 1988 lead solder was banned from use in any potable water plumbing system. However, if a single family residence constructed after 1988 is sampled, verification that lead solder was used and the plumbing installation year must be provided to ADEM.

If you should have any questions, call me at 271-7776.

Sincerely,

Lillian Westry, Engineer  
Lead/Copper Compliance  
Water Supply Branch

LW/iw

**APPENDIX B**

## Harvest-Monrovia Water and Sewer Authority

Dear Customer,

We are planning to start lead and copper sampling soon. EPA and ADEM require the water system to sample for this every 3 years. We are asking for your cooperation in completing the sampling process. The Authority goes to great lengths to make sure the water you drink not only meets EPA and ADEM standards, but ours as well.

Sampling will take place in the months of June, July, August or September. **We will let you know before the bottles are delivered.** Along with sample bottle will be instructions on how to collect the water in your home. After the samples have been collected, please place the bottle on your front porch for our employee to pick up. Thank you for your help in the past and cooperation this year to complete the testing.

The results in the past have been satisfactory and we have not had any problems meeting the standards set by EPA. We do not expect any problems with the test this year. You will receive a copy of the results when the testing is complete.

EPA requires we use the same houses for each testing period. If for some reason you do not want the Authority to use your home for sampling purposes, please call the office at 256-837-1132 and ask for me.

Thank You,

Mike Oliver  
General Manager

## Harvest-Monrovia Water and Sewer Authority

*(Insert Date)*

Lead and Copper Sampling

Dear Customer,

Bottles will be delivered for the lead and copper sampling between *(Insert Date-Insert Date)*. Along with sample bottles, will be instructions on how to collect the water in your home. After the samples have been collected, please place the bottle on your front porch for our employee to pick up. If you have any questions call 256-837-1132 and someone will help you.

Thank you for your help and support in this effort. You will get the results from the sample at your residence.

Thanks,

Mike Oliver

General Manager



## LEAD AND COPPER SAMPLING PROCEDURES

Instructions for the lead and copper sampling are attached. The Authority is required to take samples to comply with EPA regulations and your cooperation is appreciated.

1. The sample must be in the one-liter sample bottle supplied. When taking the sample, **completely fill the bottle.**
2. Please refer to the attached instructions to ensure the sample is taken properly.
3. After the supplied bottle has been filled, complete the information sheets supplied with the bottle at the time it was delivered. This information is essential to make sure we get the samples identified with the correct address.
4. Please place the sample in front of your house (**front porch please**) along with the information sheet and the Water Authority will pick the sample bottle up.

If you have questions please call (256) 837-1132 and ask for Mike Oliver.

Thanks for your cooperation!

SAMPLE # \_\_\_\_\_

TIER# \_\_\_\_\_

Directions for Tap Water Sample Collection

These samples are being collected to measure any possible contributions of faucet fixtures, household pipes or solder to the lead and copper levels in tap water. The Environmental Protection Agency, requires this sampling effort and it is being done with the cooperation of homeowners and residents.

Results from your sample will be given to you when all sample reporting is complete. If high levels of lead and or copper are found in your sample, you will be notified as soon as results are available.

The samples have to be collected after an extended period of stagnant water conditions have occurred (i.e.; no water use has occurred during this period) in the interior piping of a home this requirement makes either early morning or evening after returning from work are the best times to collect the tap water sample.

WATER SAMPLE COLLECTION INSTRUCTIONS:

- The water department will deliver the sample kit to your home on the date you have scheduled. Before you take your water sample, read these instructions carefully or the test may have to be redone.
- You must not use your water for a minimum of 6 hours before filling your sample bottle, so ONLY take your water sample after a minimum of 6 hours without use.

ONLY TAKE YOUR WATER SAMPLE

- In the morning, right when you get up, before anyone turns on any of your faucets, or when you return home from work, before anyone turns on any of your water faucets.
- Samples can ONLY be taken from a kitchen or bathroom cold water faucet.

HOW TO TAKE THE WATER SAMPLE

- 1.) Look at the label on your sample bottle. The bottle number on the label should be the same as the bottle number listed on the top left-hand side of this page. If it is not, call your water department
- 2.) Now, place the open sample bottle under the kitchen or bathroom faucet and gently turn on the cold water. Fill the sample bottle up to the neck of the bottle.
- 3.) Put the cap back on the bottle and close it tightly so that none of your sample can spill out.
- 4.) Next, put the sample bottle and paperwork attached outside your home in the same place that it was delivered.  
The water department staff will then come by to pick up the sample.

IF YOU HAVE HAD ANY PLUMBING REPAIRS, OR PLUMBING REPLACEMENTS DONE IN YOUR HOME SINCE THE LAST SAMPLE WAS TAKEN, PLEASE WRITE THE INFORMATION ON THESE LINES:

Date of latest plumbing repairs : \_\_\_\_\_ ( month / year)

Type of plumbing repair: \_\_\_\_\_

TO BE COMPLETED BY RESIDENT:

Last water use:                      Time \_\_\_\_\_                      Date \_\_\_\_\_

Sample collection:                      Time \_\_\_\_\_                      Date \_\_\_\_\_

Address of home:                      Street and /or apt# \_\_\_\_\_

City and State \_\_\_\_\_

Signature \_\_\_\_\_                      Date \_\_\_\_\_

CALL THE WATER DEPARTMENT FOR MORE INFORMATION, IF YOU HAVE ANY QUESTIONS

## APPENDIX D

## Harvest-Monrovia Water and Sewer Authority

September 13, 2019

RE: Lead and Copper Sampling Results

Dear Customer,

Enclosed are the sample results from your home for the Lead and Copper Sampling requirements in 2019. The Maximum Contaminant Level (MCL) for lead is 0.015 parts per million (ppm) and the copper Maximum Contaminant Level (MCL) is 1.3 ppm. Also enclosed is information on the health effects of lead, steps you can take to reduce your exposure, and the definition of the different levels.

If you have any questions concerning the sample results, please feel free to call Mike Oliver at 256-837-1132. The Authority Thanks you for your help and will be asking again in 3 years to do the same.

Sincerely,



Mike Oliver  
General Manager  
Harvest-Monrovia Water

Harvest Monrovia Water Authority

Lead/Copper Results 2019

| Sample ID | Address            | Parameter | Result | MCL   | Units |
|-----------|--------------------|-----------|--------|-------|-------|
| 1         | 269 Alt Harvest Rd | Lead      | <0.001 | 0.015 | mg/l  |
|           |                    | Copper    | 0.553  | 1.3   | mg/l  |

Laboratory Information

*Pace Analytical*

12065 Lebanon Rd.

Mt. Juliet, TN 37122

Phone (615) 758-5858

Fax (615) 758-5859

SAMPLE

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Harvest-Monrovia Water, Sewer and Fire Protection Authority is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you want more information about lead in drinking water, testing methods and steps you can take to minimize exposure call the Safe Drinking Water Hotline or visit <http://www.epa.gov/safewater/lead>.

**Action Level (AL)**- The concentration of a contaminant which, if exceeds, triggers treatment or other requirements which a water system must follow.

**Maximum Contaminant Level (MCL)** - Highest level of a contaminant allowed in the drinking water.

**Maximum Contaminant Level Goal (MCLG)** - Level of a contaminant in drinking water below which there are no known or expected health risks.

**APPENDIX E**

## Harvest-Monrovia Water and Sewer Authority

October 1, 2019

Laura Taylor  
ADEM- Water Supply  
P O Box 301463  
Montgomery, Alabama 36130-1463

RE: Lead and Copper Sampling 2019  
Harvest-Monrovia Water PWSID# 0878  
Madison County


Laura,

Enclosed are the sample results along with the Certification Statement for 2019 Lead and Copper sampling period. Also enclosed is a copy of the Letter sent to each customer that helped with the sampling for 2019. Sampling results were attached to this letter for each Resident site.

All original sites were used to conduct the 2019 testing. Pace Analytical performed the analysis using the laboratory EPA method 200.8 for both Lead and Copper. The results for both Lead and Copper are listed in ascending order showing the 90<sup>th</sup> percentile results. The residence that is listed as the highest result for lead was resampled in the same manner as the original sample and tested by Pace Analytical using the same methods. The results obtained for this site are also included.

If you have any questions please contact me at 256-837-1132.

Sincerely,

  
Mike Oliver  
General Manager  
Harvest-Monrovia



# Harvest Monrovia Water Authority

Summary of Lead Sample Results to show 90th Percentile

Collection Year 2019

Date of Report: 8/21/2019

| Sample ID | Address              | Tier | Date      | Time    | Parameter | Result  | MCL   | Units |
|-----------|----------------------|------|-----------|---------|-----------|---------|-------|-------|
| 1         | 269 Alt Harvest Rd   | 1    | 7/16/2019 | 6:31am  | Lead      | <0.001  | 0.015 | mg/l  |
| 2         | 110 Brookville Dr    | 1    | 7/16/2019 | 6:00am  | Lead      | <0.001  | 0.015 | mg/l  |
| 3         | 230 Rosecliff Dr     | 1    | 7/16/2019 | 5:30am  | Lead      | <0.001  | 0.015 | mg/l  |
| 4         | 108 Timberland Trace | 1    | 7/16/2019 | 5:49am  | Lead      | <0.001  | 0.015 | mg/l  |
| 5         | 107 Timberland Trace | 1    | 7/16/2019 | 6:30am  | Lead      | <0.001  | 0.015 | mg/l  |
| 6         | 106 Timberland Trace | 1    | 7/16/2019 | 5:00am  | Lead      | <0.001  | 0.015 | mg/l  |
| 7         | 105 Richard Brown Rd | 1    | 7/16/2019 | 5:48am  | Lead      | <0.001  | 0.015 | mg/l  |
| 9         | 111 Ce Lee Dr        | 1    | 7/16/2019 | 5:15am  | Lead      | <0.001  | 0.015 | mg/l  |
| 10        | 107 Scarlet Oak Cir  | 1    | 7/16/2019 | 5:00am  | Lead      | <0.001  | 0.015 | mg/l  |
| 11        | 123 Jenni Leigh Dr   | 1    | 7/16/2019 | 5:30am  | Lead      | <0.001  | 0.015 | mg/l  |
| 12        | 112 Hunter Brown Rd  | 1    | 7/16/2019 | 5:18am  | Lead      | <0.001  | 0.015 | mg/l  |
| 14        | 265 Northwood Cir    | 1    | 7/16/2019 | 6:00am  | Lead      | <0.001  | 0.015 | mg/l  |
| 15        | 111 Erle Phillips Rd | 1    | 7/17/2019 | 5:40am  | Lead      | <0.001  | 0.015 | mg/l  |
| 16        | 208 Meadow Crest Dr  | 1    | 7/17/2019 | 6:00am  | Lead      | <0.001  | 0.015 | mg/l  |
| 17        | 231 Rosecliff Dr     | 1    | 7/19/2019 | 5:00am  | Lead      | <0.001  | 0.015 | mg/l  |
| 18        | 102 Jenni Leigh Dr   | 1    | 7/19/2019 | 6:15am  | Lead      | <0.001  | 0.015 | mg/l  |
| 19        | 116 Timberland Trace | 1    | 7/17/2019 | 10:00am | Lead      | <0.001  | 0.015 | mg/l  |
| 20        | 102 Scarlet Oak Cir  | 1    | 7/19/2019 | 7:20am  | Lead      | <0.001  | 0.015 | mg/l  |
| 21        | 107 Richard Brown Rd | 1    | 7/16/2019 | 6:00am  | Lead      | <0.001  | 0.015 | mg/l  |
| 22        | 105 Northwood Cir    | 1    | 7/22/2019 | 5:31am  | Lead      | <0.001  | 0.015 | mg/l  |
| 23        | 118 Water Oak Ct     | 1    | 7/22/2019 | 7:00am  | Lead      | <0.001  | 0.015 | mg/l  |
| 24        | 132 Water Oak Ct     | 1    | 7/23/2019 | 3:00am  | Lead      | <0.001  | 0.015 | mg/l  |
| 25        | 110 Richard Brown Rd | 1    | 7/23/2019 | 5:30am  | Lead      | <0.001  | 0.015 | mg/l  |
| 26        | 134 Southview Dr     | 1    | 7/16/2019 | 3:30pm  | Lead      | <0.001  | 0.015 | mg/l  |
| 27        | 109 Jenni Leigh Dr   | 1    | 7/24/2019 | 6:30am  | Lead      | <0.001  | 0.015 | mg/l  |
| 28        | 113 Timberland Trace | 1    | 7/24/2019 | 6:45am  | Lead      | <0.001  | 0.015 | mg/l  |
| 29        | 127 Southview Dr     | 1    | 7/30/2019 | 6:50pm  | Lead      | <0.001  | 0.015 | mg/l  |
| 30        | 103 Brookville Dr    | 1    | 8/7/2019  | 6:18am  | Lead      | <0.001  | 0.015 | mg/l  |
| 13        | 156 Millstream Dr    | 1    | 7/16/2019 | 6:00am  | Lead      | 0.00356 | 0.015 | mg/l  |
| 8         | 110 Ce Lee Dr        | 1    | 7/15/2019 | 6:00pm  | Lead      | 0.0728  | 0.015 | mg/l  |

# Harvest Monrovia Water Authority

Summary of Copper Sample Results to show 90th Percentile

Collection Year 2019

Date of Report: 8/21/2019

| Sample ID | Address              | Tier | Date      | Time    | Parameter | Result  | MCL | Units |
|-----------|----------------------|------|-----------|---------|-----------|---------|-----|-------|
| 16        | 208 Meadow Crest Dr  | 1    | 7/17/2019 | 6:00am  | Copper    | 0.00892 | 1.3 | mg/l  |
| 19        | 116 Timberland Trace | 1    | 7/17/2019 | 10:00am | Copper    | 0.0108  | 1.3 | mg/l  |
| 5         | 107 Timberland Trace | 1    | 7/16/2019 | 6:30am  | Copper    | 0.164   | 1.3 | mg/l  |
| 25        | 110 Richard Brown Rd | 1    | 7/23/2019 | 5:30am  | Copper    | 0.174   | 1.3 | mg/l  |
| 21        | 107 Richard Brown Rd | 1    | 7/16/2019 | 6:00am  | Copper    | 0.180   | 1.3 | mg/l  |
| 3         | 230 Rosecliff Dr     | 1    | 7/16/2019 | 5:30am  | Copper    | 0.210   | 1.3 | mg/l  |
| 2         | 110 Brookville Dr    | 1    | 7/16/2019 | 6:00am  | Copper    | 0.230   | 1.3 | mg/l  |
| 17        | 231 Rosecliff Dr     | 1    | 7/19/2019 | 5:00am  | Copper    | 0.253   | 1.3 | mg/l  |
| 23        | 118 Water Oak Ct     | 1    | 7/22/2019 | 7:00am  | Copper    | 0.255   | 1.3 | mg/l  |
| 18        | 102 Jenni Leigh Dr   | 1    | 7/19/2019 | 6:15am  | Copper    | 0.290   | 1.3 | mg/l  |
| 20        | 102 Scarlet Oak Cir  | 1    | 7/19/2019 | 7:20am  | Copper    | 0.304   | 1.3 | mg/l  |
| 30        | 103 Brookville Dr    | 1    | 8/7/2019  | 6:18am  | Copper    | 0.313   | 1.3 | mg/l  |
| 6         | 106 Timberland Trace | 1    | 7/16/2019 | 5:00am  | Copper    | 0.329   | 1.3 | mg/l  |
| 12        | 112 Hunter Brown Rd  | 1    | 7/16/2019 | 5:18am  | Copper    | 0.334   | 1.3 | mg/l  |
| 22        | 105 Northwood Cir    | 1    | 7/22/2019 | 5:31am  | Copper    | 0.338   | 1.3 | mg/l  |
| 7         | 105 Richard Brown Rd | 1    | 7/16/2019 | 5:48am  | Copper    | 0.341   | 1.3 | mg/l  |
| 28        | 113 Timberland Trace | 1    | 7/24/2019 | 6:45am  | Copper    | 0.375   | 1.3 | mg/l  |
| 27        | 109 Jenni Leigh Dr   | 1    | 7/24/2019 | 6:30am  | Copper    | 0.420   | 1.3 | mg/l  |
| 14        | 265 Northwood Cir    | 1    | 7/16/2019 | 6:00am  | Copper    | 0.423   | 1.3 | mg/l  |
| 10        | 107 Scarlet Oak Cir  | 1    | 7/16/2019 | 5:00am  | Copper    | 0.429   | 1.3 | mg/l  |
| 24        | 132 Water Oak Ct     | 1    | 7/23/2019 | 3:00am  | Copper    | 0.482   | 1.3 | mg/l  |
| 1         | 269 Alt Harvest Rd   | 1    | 7/16/2019 | 6:31am  | Copper    | 0.553   | 1.3 | mg/l  |
| 11        | 123 Jenni Leigh Dr   | 1    | 7/16/2019 | 5:30am  | Copper    | 0.558   | 1.3 | mg/l  |
| 29        | 127 Southview Dr     | 1    | 7/30/2019 | 6:50pm  | Copper    | 0.586   | 1.3 | mg/l  |
| 26        | 134 Southview Dr     | 1    | 7/16/2019 | 3:30pm  | Copper    | 0.624   | 1.3 | mg/l  |
| 13        | 156 Millstream Dr    | 1    | 7/16/2019 | 6:00am  | Copper    | 0.646   | 1.3 | mg/l  |
| 4         | 108 Timberland Trace | 1    | 7/16/2019 | 5:49am  | Copper    | 0.836   | 1.3 | mg/l  |
| 9         | 111 Ce Lee Dr        | 1    | 7/16/2019 | 5:15am  | Copper    | 0.845   | 1.3 | mg/l  |
| 8         | 110 Ce Lee Dr        | 1    | 7/15/2019 | 6:00pm  | Copper    | 1.170   | 1.3 | mg/l  |
| 15        | 111 Erle Phillips    | 1    | 7/17/2019 | 5:40am  | Copper    | 1.250   | 1.3 | mg/l  |