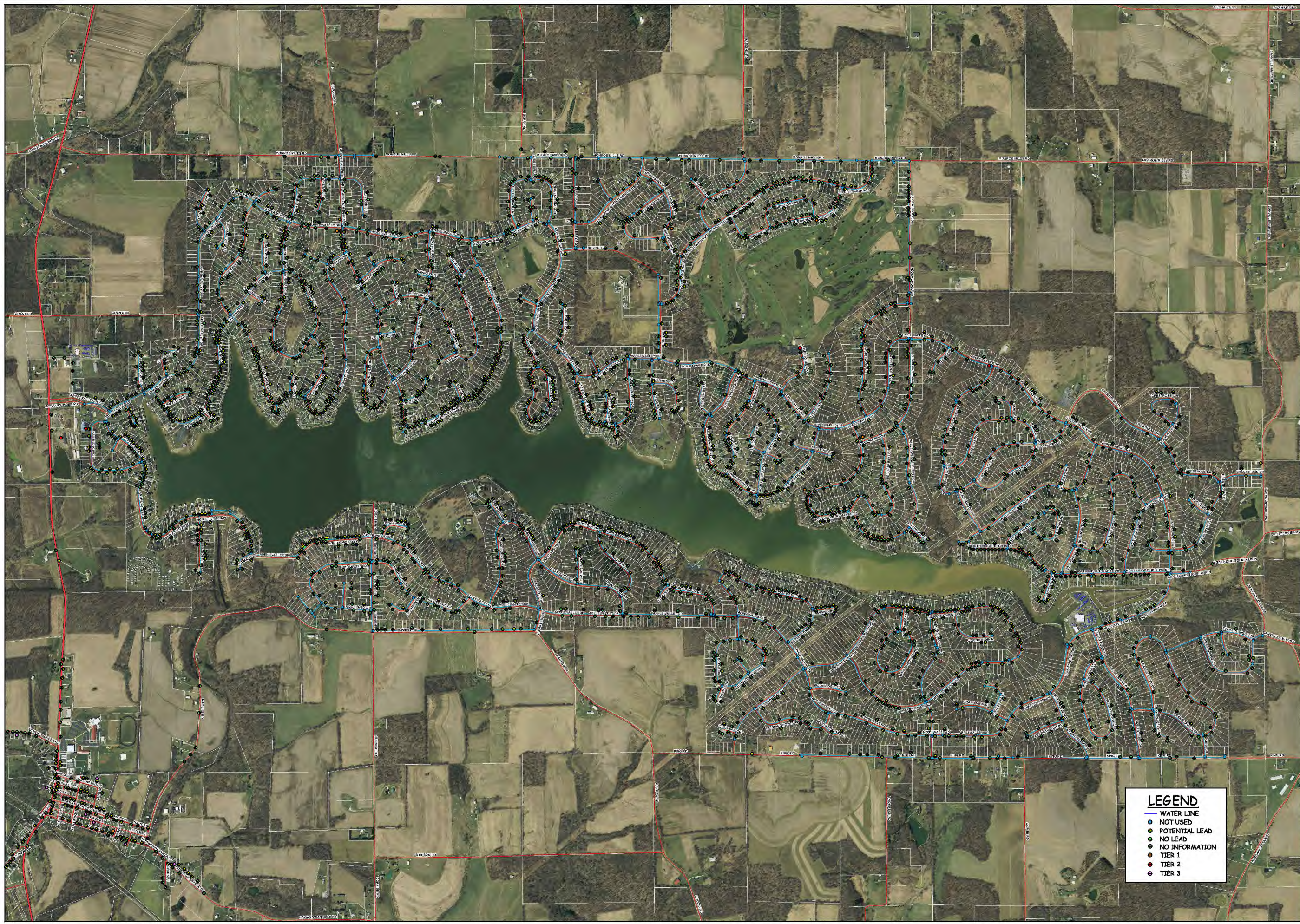


GRAPHIC SCALE  
( IN FEET )  
1 inch = 800 ft.



IBI GROUP  
635 Brookside Boulevard  
Westerville OH 43081 USA  
tel 614 818 4900 fax 614 818 4901  
ibigroup.com

SUBMISSION:

REVISION:

STAMP:

NOT FOR CONSTRUCTION

KNOX, COUNTY

APPLE VALLEY

HOWARD, TOWNSHIP

| DESIGN | DRAFT | CHECK |
|--------|-------|-------|
| KEP    | KEP   | .     |

IBI GROUP NO.: 106220

DATE: FEBRUARY, 2017

SCALE:

HORIZONTAL: 1" = 800'  
VERTICAL: NS

SHEET TITLE:

LEAD MAP  
DISTRIBUTION

SHEET NO.: 1

LEGEND

- WATER LINE
- NOT USED
- POTENTIAL LEAD
- NO LEAD
- NO INFORMATION
- TIER 1
- TIER 2
- TIER 3



# Knox County Water and Wastewater Department

Phone 740-397-7041 • 17602 Coshocton Road • Mount Vernon, Ohio 43050



February 22, 2017

Tya Darden  
Ohio Environmental Protection Agency  
Central District Office  
50 W. Town St., Suite 700  
P.O. Box 1049  
Columbus, OH 43215



Re: Knox County Water- Lead Mapping

Dear Tya Darden,

Knox County Water and Wastewater District is submitting this report in regards to the new requirements for lead and copper.

In compliance with Section 6109.121 of House Bill 512 please find the following items enclosed in the report:

1. Map of lead distribution within system
2. Description of buildings within system
3. SMP ID Sheet
4. Verification Form

If you have any questions or concerns, please contact Jeff Pickrell at 740-397-7041 or [jeffpickrell@co.knox.oh.us](mailto:jeffpickrell@co.knox.oh.us).

Sincerely,

A handwritten signature in blue ink, appearing to read "J. Pickrell", written over a horizontal line.

Jeffrey J. Pickrell  
Superintendent  
Knox County Water and Wastewater District



# Knox County Water- Lead Mapping Report

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Prepared for Knox County Water and Wastewater District  
by IBI Group

February 22, 2017

## Document Control Page

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|                   |                                           |
|-------------------|-------------------------------------------|
| CLIENT:           | Knox County Water and Wastewater District |
| PROJECT NAME:     | Knox County Water- Lead Mapping Report    |
| REPORT TITLE:     | Knox County Water- Lead Mapping Report    |
| IBI REFERENCE:    | 106220                                    |
| VERSION:          | V1                                        |
| DIGITAL MASTER:   | J:\106220_KnoxWtr_Lead\10.0 Reports       |
| ORIGINATOR:       | Katelyn Penza                             |
| REVIEWER:         | Randy Stoll                               |
| AUTHORIZATION:    | Kevin Wood                                |
| CIRCULATION LIST: |                                           |
| HISTORY:          |                                           |
|                   |                                           |

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## 1 Background

Knox County Water and Wastewater District provides drinking water to a population of about 7,500 around Apple Valley Lake. Lead in water distribution systems is becoming a growing concern due to its associated adverse health effects. In June 2016, House Bill 512 was passed by Ohio Environmental Protection Agency to establish requirements governing lead and copper testing for community and nontransient noncommunity public water systems. This law also included the revision of governing lead contamination from plumbing and fixtures. To be in compliance with the new regulation the following are attached to this report: map of potential lead plumbing within the system, description of the buildings that may contain lead plumbing and a list of the sampling locations for Tier 1-3 sites.

## 2 Mapping Distribution

Prior to 1986 it was common to have 8% lead content in plumbing material, but in 1986 the Safe Drinking Water Act enacted a law banning the use of lead solders that contain greater than 0.2% lead. To be conservative in creating the map, it was considered that any house built before or in 1998 may contain lead plumbing.

The map was marked with colored circles based on the year the building was built. Half of the circle representing the public service line and the other half representing the private service line. The colors in each half circle represent:

- Yellow= Potential Lead
- Green= No Lead
- Grey= No information

The Knox County Auditor website was used as reference to search each parcel with a tap open and mark the building in accordance to the year it was built. For the private service lines, any building built in or before 1998 was marked yellow, while any building built in or after 1999 was marked green and any building not associated with a date was marked grey. The public service lines were made of lead free material, therefore marked green for the entire distribution system.

The sample location of Tier 1 -3 sites are marked on the map:

- Tier 1- Orange
- Tier 2- Red
- Tier 3- Pink

## 3 Description of Buildings

The majority of buildings within Knox County water distribution system are located in residential areas, but some are considered commercial. The majority of the buildings within the distribution system were built before 1998, including the firehouse, old High School, and Dollar General on

Coshocton Road. For any building within the system, it is unclear of the type of material used for plumbing fixtures, pipes or solder and if the plumbing fixtures have been updated since 1998.

## 4 Sampling Locations

The Lead and Copper SMP ID Sheet is attached to this report.

## 5 Reference

Knox County Auditor- <http://www.knoxcountyauditor.org/Map.aspx?Todo=Init>

Ohio EPA- Guidelines for Lead Mapping in Distribution Systems

[http://epa.ohio.gov/Portals/28/documents/pws/PWS-04-001\\_01-06-2017.pdf](http://epa.ohio.gov/Portals/28/documents/pws/PWS-04-001_01-06-2017.pdf)



## VERIFICATION FORM FOR COMMUNITY PUBLIC WATER SYSTEMS CLAIMING NO LEAD SERVICE LINES

The owner or operator of all community public water systems must identify and map areas of their distribution system that are known or are likely to contain lead service lines. Systems must submit a copy of the applicable map to the Ohio Department of Health and the Ohio Department of Job and Family Services. Systems must also submit a report to the director containing at least both of the following: (1) The applicable map with narrative, and (2) A list of sampling locations used to collect samples as required by Ohio Revised Code (ORC) Section 6109.121 and any rules adopted thereunder, including contact information for the owner and occupant of each sampling site.

Should a water system determine no lead service lines exist in their distribution system, they must provide information stating they reviewed, at the minimum, historical permit records and local ordinances, distribution maintenance records and information pertaining to installation dates or materials for all services lines. This information must be verified below.

I HEREBY CERTIFY THAT THE FOLLOWING METHOD(S) WERE USED TO DETERMINE NO LEAD SERVICE LINES EXIST IN THIS WATER SYSTEM'S DISTRIBUTION SYSTEM, AS REQUIRED BY ORC 6109.121(F):

| LEAD SERVICE LINE VERIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>This PWS states they have no lead service lines and has reviewed the following information (select one or more of the following):</b></p> <ul style="list-style-type: none"><li><input type="checkbox"/> Historical permit records and/or local ordinances</li><li><input type="checkbox"/> Distribution maintenance records (i.e. meter replacement, waterline break repairs)</li><li><input type="checkbox"/> Information pertaining to installation dates for all service lines (i.e. after 1986 when lead services lines were banned)</li><li><input checked="" type="checkbox"/> Service line material of all service lines is known (i.e. all service lines are known to be PVC)</li></ul> |

  
\_\_\_\_\_  
Signature of Responsible Person      Date 2-24-13  
Jeffrey J. Pickrell  
\_\_\_\_\_  
Printed Name and Title of Responsible Person

**PWS NAME:** \_Knox County Water and Wastewater  
**PWS ID:** OH4202012\_\_\_\_  
**COUNTY:** Knox County\_\_\_\_

**For Ohio EPA use only:**

Date Verification Rec'd: \_\_\_\_\_