



**GEAUGA COUNTY
BOARD OF COMMISSIONERS**

Walter M. Claypool Timothy C. Lennon Ralph Spidalieri

DEPARTMENT OF WATER RESOURCES • Gerard Morgan, P.E., J.D., Director
470 Center Street • Building 3 • Chardon, Ohio 44024-1068

March 6, 2017

SENT VIA US MAIL

Ohio EPA, Northeast District Office
2110 E. Aurora Road
Twinsburg, Ohio 44087

RECEIVED

MAR 08 2017

OHIO EPA NEDO

Attn: Patricia Vanah

Re: Bainbridge Water System Lead Mapping

Dear Ms. Vanah;

Per the requirements for Public Water Systems, please find enclosed the submission for the **Bainbridge Water System (PWS ID:OH2868112)**. This submission includes the Narrative, Map, sampling point detail and the verification of no lead services.

If you have any questions or require additional information, please call.

Respectfully,

Gerard R. Morgan, P.E., J.D.
Director / Sanitary Engineer

Encl: Bainbridge Water Narrative
Bainbridge Water Service Area Map
Bainbridge Sampling Point Spreadsheet
Bainbridge verification of no lead service lines

Y:\Water\Service Area Maps for EPA 2017\Submittal\Transmittal of Bainbridge 03-06-17.doc

Geauga Co - Bainbridge

Entity: _____
Doc Type: _____ Report
Doc Subtype: _____
Program: _____
County: _____
Secondary ID: OH 2804003



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GEAUGA COUNTY-BAINBRIDGE (PWS ID:OH2804003)

NARRATIVE DESCRIPTION

The Geauga County Bainbridge water system services approximately 780 customers. The water system was begun in 1990 to service the then proposed Canyon Lakes Development as part of a settlement agreement with the developer. The water for this system is purchased from the City of Cleveland Division of Water and is metered utilizing two (2) master meters, the first meter is located at the intersection of Franklin Street and Holbrook / Country Lane (installed as part of the first section of water service in 1990) and the second meter is located at Franklin Street and Chagrin River Road (installed in 2006). The system was expanded to service the Chagrin Falls Park area in 1990. The system was again expanded in 1992 to provide service to the Knowles Industrial Park off Washington Street and Washington Street up to Chillicothe Road 1992. Another expansion occurred in 2010 to provide service to properties on English Drive, Scotland Drive, Kenston Lake Drive and Kingswood Drive off Bainbridge Road as a result of a gas well contaminating the local aquifer.

All the water line in the Bainbridge water system is Ductile Iron Pipe with the exception of the line on Country Lane from Franklin Street to the County's booster station which is plastic pipe.

All water services when installed were inspected by Geauga County Water Resources (Formerly Geauga County Sanitary Engineer's Department) personnel. The County's standard for water services is and always has been copper pipe. On a few occasions through special request plastic service lines have been utilized. All service lines were installed after 1986 when lead service lines were prohibited. The combination of the County standard of copper pipe, County inspections of service lines and time frame of service line installations permit us to say that all known water service connections are not lead. The signed verification form is included with this report.

The Bainbridge Water System has ten (10) sample locations, four (4) Tier 1 locations and six (6) Tier 2 locations. The locations and property information are included in the enclosed sample sites spreadsheet previously submitted to the Ohio EPA.

As mentioned above the Bainbridge Water System was started to provide service to the Canyon Lakes Development. The water line in the Canyon Lakes Development has been expanded as the development has grown. The original sections of the development were constructed before 1998 and as such may contain fixtures that have higher amounts of lead since these higher amounts were permitted to be in fixtures at the time the houses were constructed. The newer areas of the development have been constructed after 1998 and are therefore less likely to contain lead, however, what is sold as lead-free is not necessarily lead free as the term lead-free does not mean no lead exists and there is always the likelihood of fixtures being misrepresented as lead-free.

There are only three (3) other developments in the Bainbridge Water Service area where the houses/buildings have been constructed at the same time as the water line was constructed. These

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

This PWS states they have no lead service lines and has reviewed the following information (select one or more of the following):

- Historical permit records and/or local ordinances
- Distribution maintenance records (i.e. meter replacement, waterline break repairs)
- Information pertaining to installation dates for all service lines (i.e. after 1986 when lead services lines were banned)
- Service line material of all service lines is known (i.e. all service lines are known to be PVC)

Gerald Morgan

3/2/17

Signature of Responsible Person

Date

Gerard Morgan, Director / San. Eng.

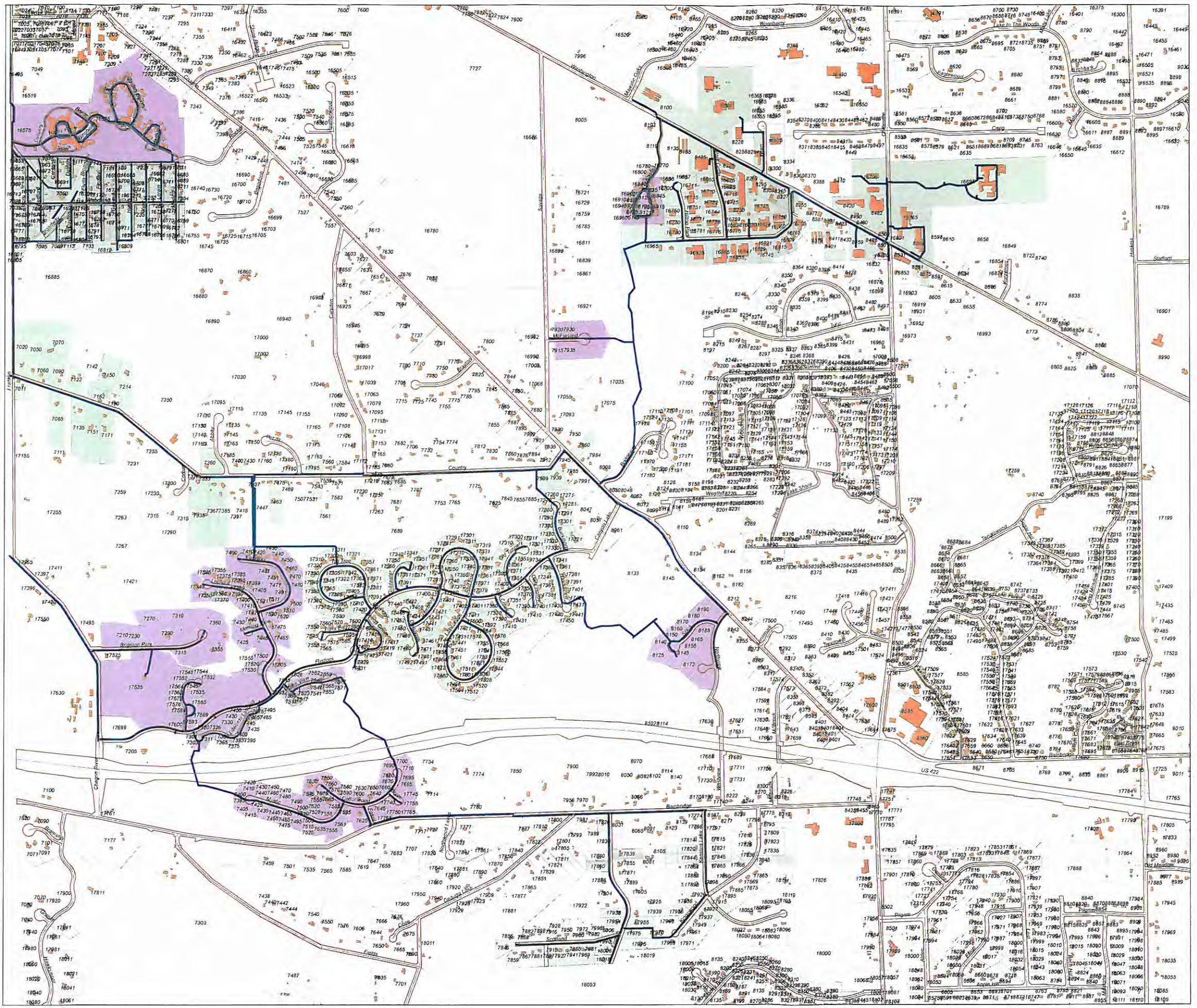
Printed Name and Title of Responsible Person

PWS NAME: BAINBRIDGE
PWS ID: OH 2804003
COUNTY: GIAULA

For Ohio EPA use only:

Date Verification Rec'd: _____

GEauga County-Bainbridge (PWS ID:OH2804003) WATER SERVICE AREA



Legend

- Water Lines
- Water Service Area-Buildings built after 1998
- Water Service Area-Buildings built before 1998
- Building Footprints (2013)

Lead and Copper Sampling Locations

SMP ID	TIER	ADDRESS
LC201	2	7060 Woodland Avenue
LC202	2	16828 Park Circle Drive
LC203	2	16828 Park Circle Drive
LC204	2	7437 Country Lane
LC205	1	17380 Old Tannery Trail
LC206	2	17630 Chagrin River Road
LC207	1	17405 Lookout Drive
LC208	1	7645 Cottonwood Trail
LC209	2	8100 Washington Street
LC210	1	7430 Faraway Trail

All Geauga County-Bainbridge (PWS ID:OH2804003) water lines were constructed after 1989.

A review of the water meter permits found the earliest water service connections to have occurred in 1990.

All service lines for water were new when installed and were taken in to the building.

All known service lines were installed under the inspection of Geauga County Department of Water Resources (Formerly Geauga County Sanitary Engineer's Office) personnel.

All service lines are either type K copper or plastic. No known lead service lines are in use in the Geauga-Bainbridge Water System.

All the buildings connected to the water system in the designation of "Water Service Area-Buildings built after 1998" were constructed at the time the water service line was extended to the building.

Except for the Canyon Lakes Development, all buildings in the "Water Service Area-Buildings built before 1998" designation were constructed before the water line was installed.



0 400 800 1,600 2,400 3,200
Feet
1 inch = 800 feet