

2015

WATER DISTRIBUTION ANNUAL REPORT



CITY OF FINDLAY WATER DISTRIBUTION DEPARTMENT

136 N. BLANCHARD ST.

FINDLAY, OHIO 45840

The City of Findlay Water Distribution Department had 13 full time employees at the end of 2015.

Employees are:

- 1 Maintenance Supervisor
- 1 Secretary
- 1 Waterline Maintenance Worker III
- 2 Waterline Maintenance Workers III
- 3 Waterline Maintenance Workers II
- 3 Waterline Maintenance Workers I
- 1 Waterline Maintenance Technician
- 1 Water Meter Technician

Collectively, the Water Distribution Department totals 200 years of service.

***Members of the Water Distribution staff are:***

Jeff Betts-Maintenance Supervisor

Betty Jones-Administrative Assistant

Jeff Kolhoff-Waterline Maintenance Worker III

Ken Paul-Waterline Maintenance Worker III

Bob Wagner-Waterline Maintenance Worker III

Bryan Miller-Waterline Maintenance Worker II / Meter Technician

Mike Rader-Waterline Maintenance Technician

Jordan Endicott- Waterline Maintenance Worker II

Casey Glick-Waterline Maintenance Worker II

Jason Ruhlen-Waterline Maintenance Worker II

Michael Knight-Waterline Maintenance Worker I

Travis Bohn- Waterline Maintenance Worker I

Jacob Rayle- Waterline Maintenance Worker I

## ***DEPARTMENT RESPONSIBILITIES***

At the end of 2015 the City of Findlay's Water Distribution Department was responsible for 310.74 miles of city water main. There are 19,523 water service connections, meter settings, and 2,447 fire hydrants.

The department also documents all activities handled including major activities such as: installation of water lines, water taps, service line renewals, main break repairs, hydrant repairs, locating of water lines for other utilities and contractors, repairs to streets, driveways, and sidewalks damaged by our activities, inspections of water service line installations, collection of bacteria samples for new water line installations and leak detection, review of all proposed construction plans, to make sure the proposed water lines are in compliance with Ohio EPA rules and regulations and AWWA Standards, and maintenance and minor repairs to the department's vehicles and equipment.

## ***NEW WATER SERVICE CONNECTIONS***



From 1990 through 2015, over a twenty five (25) year period, we have added 5,307 new water service connections to our system.

1990	186	2003	242
1991	187	2004	275
1992	162	2005	271
1993	209	2006	234
1994	272	2007	145
1995	245	2008	107
1996	268	2009	66
1997	285	2010	79
1998	346	2011	80
1999	360	2012	91
2000	403	2013	86
2001	293	2014	127
2002	316	2015	99

For the year 2015, 70 – ¾ inch services were installed taking 798 man-hours and 102 backhoe hours, 28 – 1 inch services were installed taking 291 man-hours and 36 backhoe hours, 1 - 2 inch service was installed taking 24 man-hours and 4 backhoe hours. There was another 18 additional main line taps, 3 – 4 inch, 12 – 6 inch, 3 – 8” inch, 2 – 10” inch services requiring 98.50 man-hours and 15.50 backhoe hours.

**WATER SERVICE RENEWALS**



A total of 103 water services were renewed taking 977.5 man-hours and 143 backhoe hours. There were 99 – ¾ inch services, 4 – 1 inch service.

**LINE LOCATING**

Combined with the leak-locating program is the line locating program. This program is for locating our water lines for other utilities, contractors, developers and consultants.

We are a member of the Ohio Utilities Protection Service. They send us locates via the fax machine and we in turn notify other city departments as needed.

Growth in locates from 1990 to 2015:

1990	784	2003	5146
1991	1217	2004	6079
1992	2072	2005	6506
1993	2446	2006	6748
1994	2112	2007	5897
1995	3162	2008	5713
1996	3528	2009	5162
1997	4070	2010	5225
1998	4410	2011	5956
1999	3829	2012	6182
2000	6725	2013	6758
2001	5817	2014	7036
2002	5960	2015	7010

This figures out to be 27.92 locates per day for the 251 working days in a year. Along with line locating, there is also the collection of bacteria samples for testing of new water main installations. There were 97 bacteria samples collected this year.

**METER SHOP REPAIRS, TESTING, Field Testing large Meters**

Tested	1965	
Repaired	282	
Sent Back	1438	
Large Meters	1	Man-hours 60

## ***FIRE HYDRANT FLUSHING***



The Water Dist. Department performs all of the flushing, tagging, and pumping of hydrants in our system. We constructed three truck mounted flushing units that allow us to open the hydrant completely to allow the needed velocity to properly flush the main line. Without these units, water would be flushed clear across the street potentially causing motorists harm, as it was experienced in the past. Also, since we have taken over the hydrant flushing, we have found that we can properly maintain the hydrant while we are there, saving time in return trips therefore saving money.

## ***METER CHANGES***

The Water Distribution Department changed a total of 2 meters in 2015 for use with the new meter reading system. These activities took 4.50 hours of labor and .75 hours of vector to accomplish.

## ***GOALS FOR 2016***

Continue maintenance of the new Badger Meter Galaxy meter reading system.

Continue to update all waterline maps in house for future reference for GIS and EPA Net 2 for water hydraulics.

Start a valve, locate and exercise program.

Continue the annual large meter test and repair program.

Continue the leak detection survey.

Complete small waterline Capital improvement projects.

I would like to thank the employees of the Water Distribution Staff, who work diligently in providing clean safe drinking water. Along with helping in snow removal our Water Distribution employees provide an excellent service to our community. Thank you to our Administrative Assistant, Maintenance Workers and locator.

Thank You,  
Jeff Betts  
Water Distribution Supervisor

**LIST OF DEPARTMENTAL ACTIVITIES PERFORMED**

Cold Mix repairs temporary patch to street excavations 20 different sites	Man-hours	39.50	Backhoe Hrs.	6.25
3 gates installed	Man-hours	21.00	Backhoe Hrs.	2.50
52 gate box repairs	Man-hours	115.25	Backhoe Hrs. Vactor Hrs.	2.50 40.00
18 gate valves repaired	Man-hours	277.50	Backhoe Hrs. Vactor Hrs.	37.00 1.00
7 fire hydrants installed or replaced	Man-hours	107.00	Backhoe Hrs.	13
32 fire hydrants repaired	Man-hours	138.75	Backhoe Hrs.	12.50
10 fire hydrants checked for damage	Man-hours	10.00	Vactor Hrs.	1
16 hydrants checked for leaks	Man-hours	21.50		
8 hydrants pumped	Man-hours	7.50		
26 meter lids replaced	Man-hours	25.50	Backhoe Hrs. Vactor Hrs.	.50 .50
19 hydrant flow test	Man-hours	56.00		
73 broken mains varying in sizes From 1 inch and up. Includes regular hours, overtime hours and call out stand-by hours.	Man-hours	1142.75	Backhoe Hrs. Vactor Hrs.	165.00 1.50
130 leaks checked out	Man-hours	291.75	Backhoe Hrs. Vactor Hrs.	20.50 1.25
4 meters set in	Man-hours	7.00	Vactor Hrs.	.50
2 meter reductions	Man-hours	3.00		
2 meters taken out	Man-hours	5		
0 meters changed	Man-hours	0		
10 pressure checks	Man-hours	14.25		
12 turn on service	Man-hours	9.50		

64 turn off for repairs regular hours,	Man-hours	64.00	Vactor Hrs.	1.00
Overtime hours and call out stand-by	Man-hours	1057.75	Backhoe Hrs.	75.25
			Dump Truck Hrs.	42
			Bobcat Hrs.	15.00
			Trencher Hrs.	3
			Welder Hrs.	3.25
35 services killed	Man-hours	342.00	Backhoe Hrs.	49.25
			Vactor Hrs.	1.00
6 rusty water complaints	Man-hours	9.50		
11 service lines repairs	Man-hours	95.50	Backhoe Hrs.	15
			Vactor Hrs.	3.00
8 settings lowered	Man-hours	27.00	Backhoe Hrs.	3.00
24 settings moved	Man-hours	242.50	Backhoe Hrs.	33.50
19 settings raised	Man-hours	35.00	Backhoe Hrs.	.50
			Backhoe Hrs.	1.00
60 settings repaired	Man-hours	239.75	Backhoe Hrs.	27.00
			Vactor Hrs.	18.00
103 no water calls	Man-hours	193.00	Backhoe Hrs.	15.75
			Vactor Hrs.	.50
			Welder Hrs.	19
74 Nipples Set Hrs. for labor in No Water Call	Man-hours	21.25	Vactor Hrs.	1.00
48 temporary meter set and removed	Man-hours	88.50		
16 pools Filled	Man-hours	73.50		
54 asphalt prep work	Man-hours	296.00	Backhoe Hrs.	60.00
12 concrete repairs	Man-hours	173.50	Backhoe Hrs.	31.50
			Dump Truck Hrs.	8.50
101 grade and seeds	Man-hours	146.25	Backhoe Hrs.	41.00
19 vactor work	Man-hours	28.50	Vactor Hrs.	10.00

### **MISCELLANEOUS JOBS**

There were 158 different miscellaneous jobs done by water distribution for a total of 751.00 labor hours with 87.00 backhoe hours, 1.50 vactor hours, 15 bobcat hours, 3 trencher hours, 42 dump truck hours:

Picked up barricades, stoned holes, locate shut off for plumber, check holes, met with many contractors and customers over water lines, set up arrow boards for Police Department for parades, set fishing docks, dig out holes for Street Department to hot patch, work gate valves for contractors installing new main lines, and many other miscellaneous jobs too numerous to mention.