

2011

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 2011.

Employees are:

- 1 Maintenance Supervisor
- 1 Secretary
- 3 Waterline Maintenance Worker III
- 7 Waterline Maintenance Worker II
- 1 Waterline Maintenance Technician

Collectively, the Water Distribution Department totals 196 years of service.

Members of the Water Distribution staff are:

Jeff Betts-Maintenance Supervisor

Betty Jones-Secretary

Tim Frysinger- Waterline Maintenance Technician

Jeff Kolhoff-Waterline Maintenance Worker III

Ken Paul-Waterline Maintenance Worker III

Bob Wagner-Waterline Maintenance Worker III

Larry Pocock-Waterline Maintenance Worker II

Bryan Miller-Waterline Maintenance Worker II

Mike Rader-Waterline Maintenance Worker II

Jordan Enicott- Waterline Maintenance Worker II

Kyle Jordan -Waterline Maintenance Worker II

Anthony Orians-Waterline Maintenance Worker II

Casey Glick-Waterline Maintenance Worker II

Retirements

Steve Hill w/32 years of service

Mike Courtney w/30 years of service

DEPARTMENT RESPONSIBILITIES

At the end of 2011 the City of Findlay's Water Distribution Department was responsible for 307 miles of city water main. There are 19,039 water service connections, meter settings, and 2,379 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 1989 through 2011, over a twenty two (23) year period, we have added 5,171 new water service connections to our system.

1989	140	2001	293
1990	186	2002	316
1991	187	2003	242
1992	162	2004	275
1993	209	2005	271
1994	272	2006	234
1995	245	2007	145
1996	268	2008	107
1997	285	2009	66
1998	346	2010	79
1999	360	2011	80
2000	403		

For the year 2011, 49 – ¾ inch services were installed taking 555.5 man-hours and 87 backhoe hours, 11 – 1 inch services were installed taking 107.5 man-hours and 13 backhoe hours, 3 - 1 ½ inch service was installed taking 36.5 man-hours and 8 backhoe hours, 2 - 2 inches services were installed taking 51 man-hours and 8 backhoe hours. There was another 15 additional main line taps, 3 – 4 inch, 7 – 6 inch, 4 – 8 inch and 1- 12 inch taps, requiring 53.5 man-hours and 12.80 backhoe hours.

WATER SERVICE RENEWALS



A total of 131 water services were renewed taking 1762.5 man-hours and 337 backhoe hours. There were 122 – ¾ inch services, 9 – 1 inch services renewed.

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 an OUPS printer and we in turn notify other city departments as needed.

Growth in locates from 1989 to 2011:

1989	222	2001	5817
1990	784	2002	5960
1991	1217	2003	5146
1992	2072	2004	6079
1993	2446	2005	6506
1994	2112	2006	6748
1995	3162	2007	5897
1996	3528	2008	5713
1997	4070	2009	5162
1998	4410	2010	5225
1999	3829	2011	5956
2000	6725		

This figures out to be 23.7 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 94 bacteria samples collected this year.

METER SHOP REPAIRS AND TESTING

Tested	118
Repaired	122
Junked	1776

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 2411 meters in 2011 for use with the new meter reading system. These activities took 921.55 hours of labor to accomplish.

GOALS FOR 2012

Continue with the new Badger Meter Galaxy meter reading system by changing meters and meter covers.

Finish the painting of hydrants so they all look identical.

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.

Return to the annual large meter test and repair program.

Continue the leak detection survey.

Over see an ongoing corrosion control project being done through the Engineering Department.

I would like to thank the employees of the Water Distribution Staff, who work diligently in meeting the deadlines of this department.

Respectfully submitted,

Jeff Betts
Water Distribution Supervisor

LIST OF DEPARTMENTAL ACTIVITIES PERFORMED

Cold Mix repairs temporary patch to street excavations 38 different sites	Man-hours	50	Backhoe Hrs.	10
87 gate box repairs	Man-hours	149	Backhoe Hrs.	5.25
11 gate valves repaired	Man-hours	215.5	Backhoe Hrs.	24
18 fire hydrants installed or replaced	Man hours	259	Backhoe Hrs.	39
47 fire hydrants repaired	Man-hours	200.75	Backhoe Hrs.	10.75
12 fire hydrants checked for damage	Man hours	10		
1 customer new water service line installation inspections	Man hours	1		
135 meter lids replaced	Man hours	98.45		
66 broken mains varying in sizes from 1 inch and up. Includes regular hours, overtime hours and call out stand-by hours	Man-hours	845.25	Backhoe Hrs.	364
117 leaks checked out	Man-hours	122.25	Backhoe Hrs.	6.50
38 meters set in	Man-hours	24		
16 meter reductions	Man-hours	11.5		
9 meters taken out	Man-hours	11.25		
2411 meters changed	Man-hours	921.55		
16 pressure checks	Man-hours	13.50		
1 turn on service	Man-hours	1		
47 turn off for repairs regular hours, Overtime hours and call out stand-by	Man-hours Man-hours	28.70 82.75		
26 services killed	Man-hours	193	Backhoe Hrs.	38
16 rusty water complaints	Man-hours	20		
1 service lines repairs	Man-hours	2	Backhoe Hrs.	1
18 settings lowered	Man-hours	54		

18 settings moved	Man-hours	169	Backhoe Hrs.	26
22 settings raised	Man-hours	37.50		
88 settings repaired	Man-hours	193.70	Backhoe Hrs.	22
18 no water calls	Man-hours	31.50	Welder	1.5
29 nipples installed				
35 Temporary meter set and removed	Man-hours	40.5		

MISCELLANEOUS JOBS

There were 95 different miscellaneous jobs done by water distribution for a total of 524.75 hours with 61 hoe hours, and 1.25 vactor 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