

2008

WATER DISTRIBUTION ANNUAL REPORT



CITY OF FINDLAY WATER DISTRIBUTION DEPARTMENT

136 N. BLANCHARD ST.

FINDLAY, OHIO 45840

The City of Findlay Water Distribution Department was downsized through attrition to 14 full time employees at the end of 2008. The remaining employees are:

- 1 Maintenance Supervisor
- 1 Secretary
- 1 Waterline Maintenance Worker IV
- 3 Waterline Maintenance Worker III
- 5 Waterline Maintenance Worker II
- 1 Water Meter Repairman
- 1 Waterline Maintenance Technician
- 1 Waterline Maintenance Technician Asst.

Collectively, the Water Distribution Department totals 270 years of service.

Members of the Water Distribution staff are:

Steve Hill-Maintenance Supervisor

Betty Jones-Secretary

Mike Courtney-Waterline Maintenance Worker IV

Dan Perry-Waterline Maintenance Worker III (retired 11-28-08)

John Blide-Waterline Maintenance Worker III

Marty Hough-Waterline Maintenance Worker II

Tim Frysinger- Waterline Maintenance Technician

Jeff Kolhoff-Waterline Maintenance Worker II

Ken Paul-Waterline Maintenance Worker II

Jeff Betts-Waterline Maintenance Worker III

Larry Pocock-Waterline Maintenance Worker II

Robert Wagner-Waterline Maintenance Technician Asst.

Jerry Peterson-Water Meter Repairman

Bryan Miller-Waterline Maintenance Worker II

Mike Rader- Waterline Maintenance Worker II

DEPARTMENT RESPONSIBILITIES

At the end of 2008 the City of Findlay's Water Distribution Department was responsible for 306.12 miles of city water main. There are 18,908 water service connections, meter settings, and 2,354 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 2008, over a eighteen (18) year period, we have added 4,661 new water service connections to our system.

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

For the year 2008, 74 – ¾ inch services were installed taking 838 man-hours and 127 backhoe hours, 28 – 1 inch services were installed taking 234 man-hours and 36 backhoe hours, 1 - 1 ½ inch service was installed taking 28 man-hours and 2 backhoe hours, 4 - 2 inches services were installed taking 67 man-hours and 14 backhoe hours. There was another 7 additional main line taps, 2 – 4 inch, 5 – 6 inch, taking 53 man-hours and 9 backhoe hours.

WATER SERVICE RENEWALS



A total of 162 water services were renewed taking 1687 man-hours and 288 backhoe hours. There were 153 – ¾ inch services, 7 – 1 inch services and 2 – 2 inch services renewed. This was in conjunction with the annual repaving and water line replacement projects.

From 1990 through 2008 – 3,450 water services have been renewed for an average of 191.6 services being renewed per year.

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 2008:

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

This figures out to be 22.8 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 80 bacteria samples collected this year.

METER SHOP REPAIRS AND TESTING

Tested	1100
Repaired	135
Junked	509

MAINLINE REPLACEMENT

We had a very busy year of eliminating dead end main lines as well as being asked to replace a main line at the last minute for the Engineering Department. The streets that we were involved with and the amount of footage that we replaced were:

Bright Rd.	Drake Ave. to E. Huntington Dr.	396 feet
Filmore St.	N. Cory St. to N. Main St.	486 feet
H St.	Tiffin Ave. to Walnut St.	370 feet
Wyandot St.	S. Blanchard St. to east of Selby St.	1998 feet
Eighteenth St.	N. Main St. to Flowers Ave.	1080 feet
Nineteenth St.	N. Main St. to Flowers Ave.	1010 feet
Flowers St.	19 th St. to 18 th St.	465 feet
Twentieth St.	N. Main St. to Pershing St.	450 feet
Dayton Ave.	McConnell Ave. to Balsley Ave.	882 feet
Balsley Ave.	Dayton Ave. to Central Ave.	324 feet
Lima Ave.	around bridge replacement at Oil Ditch	<u>144 feet</u>
	Total	7605 feet

FIRE HYDRANT FLUSHING



The Water Dist. Department has taken over the flushing, tagging, and pumping of hydrants completely as of 2007. We were able to construct 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.

GOALS FOR 2008

Continue with the new Badger Meter Galaxy meter reading system with the second and third year meters being installed by ourselves.

Continue to install short runs of mainline to eliminate dead ends on our system as well as upgrade areas with low flow and or low pressure.

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.

Return to the leak detection survey.

Continue to renew services in conjunction with the street resurfacing program and the installation of new services.

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,

Steven D. Hill
Water Distribution Supervisor

LIST OF DEPARTMENTAL ACTIVITIES PERFORMED

Cold Mix repairs temporary patch to street excavations 18 different sites	Man-hours	26	Backhoe Hrs.	4
30 gate box repairs	Man-hours	62.25	Backhoe Hrs.	3
5 gate valves repaired	Man-hours	69.5	Backhoe Hrs.	8.5
19 fire hydrants installed or replaced	Man hours	270	Backhoe Hrs.	38
38 fire hydrants repaired	Man-hours	147.25	Backhoe Hrs.	5.5
7 fire hydrants checked for damage	Man hours	5		
2 customers new water service line installation inspections	Man hours	1		
19 meter lids replaced	Man hours	16.25		
73 broken mains varying in sizes from 1 inch and up. Includes regular hours, overtime hours and call out stand-by hours	Man-hours	802.25	Backhoe Hrs.	135
63 leaks checked out	Man-hours	177	Backhoe Hrs.	25

25 meters set in	Man-hours	17		
9 meter reductions	Man-hours	10		
10 meters taken out	Man-hours	13		
2 meters changed	Man-hours	3		
8 pressure checks	Man-hours	7		
10 turn on service	Man-hours	6.25		
81 turn off for repairs regular hours, Overtime hours and call out stand-by	Man-hours	772.5		
21 services killed	Man-hours	185.5	Backhoe Hrs.	34.5
19 rusty water complaints	Man-hours	29.25		
9 service lines repairs	Man-hours	49.5	Backhoe Hrs.	7
8 settings lowered	Man-hours	14.5	Backhoe Hrs.	1
5 settings moved	Man-hours	36.5	Backhoe Hrs.	8
14 settings raised	Man-hours	33.75	Backhoe Hrs.	5
38 settings repaired	Man-hours	102.5	Backhoe Hrs.	11.5
48 no water calls	Man-hours	38.75	Welder	1
57 nipples installed	Man-hours	4		
32 Temporary meter set and removed	Man-hours	33		

MISCELLANEOUS JOBS

There were 128 different miscellaneous jobs done by water distribution for a total of 550 hours with 72.25 hoe hours, 1 vactor hour, and 6 hours dump truck: 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