



PAINESVILLE WATER DIVISION

July 2012

OVERVIEW AND HIGHLIGHT

The Painesville Water Division had twelve water main breaks in the month of July 2012. Three of the breaks were in Painesville City, three were in Concord Township, three were in Painesville Township, and three were in Grand River Village. The first break in the City of Painesville was a 5' split on a 6" C.I. main at the Water Pollution Control Plant. The second leak repaired was a hole on an 8" ductile iron main at 150 Grand River Ave.; this main was installed in 1993. The third break was a 6' split on an 8" cast iron pipe on Richmond St. at Richmond Rd. This pipe was installed in 1966. The first break in Concord was a hole on 8" ductile iron pipe on Morley Rd. at the Tiffany Dr. intersection. This pipe was installed in 1992. We had two breaks on Pinehill Dr.; one by the bridge and the other was at house number 7333. They were both holes on 8" ductile iron pipe installed in 1984. The first break in Painesville Township was a hole on 6" cast iron pipe at 70 Adelaide Dr. This pipe was installed in 1962. The second break was a hole on 8" cast iron pipe at 25 Florence Ave. This pipe was installed in 1968. The third break was a little 1" split on 8" cast iron pipe at 155 Freedom Rd. This pipe was installed in 1975. The first break in Grand River Village was a hole on 4" cast iron pipe at 809 Carson Ave. This pipe was installed in 1965. The next two breaks were a 74" split and a hole on 6" cast iron pipe on Coast Guard Rd. This pipe was installed in 1967. There was one old 6" clamp replaced on Skinner Ave. at Sanford St. One old galvanized line was replaced with ¾" copper at 28 W. South St.

The City of Painesville Water Division repaired one hydrant and installed seven new services. One new service line was installed in the City of Painesville and six additional service lines were installed in Concord Township.

Goals achieved

1. Water Distribution and Water Plant - To produce safe potable water that meets and exceeds all federal, state, and local regulations. (Stewardship and Customer Service)

Actions - All leaks were repaired

Actions – Continue abandoning service lines, which are no longer needed.

Actions - Spoke with different Ohio EPA representatives on multiple occasions.

Action - Sent Ohio EPA state reports to different representatives of the Ohio EPA to ensure compliance.

Action - T.O.C. phosphate and nitrate collected and sent to Alloway for monthly compliance.

Action – Performed additional microbiological testing for microcystin and algae due to harmful algae bloom located near our intake.

2. Water Distribution and Water Plant - Optimize operations (Customer Service and Communication)

Action - Distribution employees working in lab and plant operations.

Action - Distribution employees Bruce Hook and Leonard Crosby are helping with plant maintenance and plant employee Edward Bardall is helping with maintenance at tanks and pump stations.

Action – Replaced hoses and electronic sensor in CL17 chlorine analyzer.

Action - Modified an old potassium permanganate feeder to now have the capability to feed carbon

Action - Continuing to cross-train employees Terrance Baideme and Carmen Campana as assistant engineering technicians.

Action - Have been cross-training newly hired employee Ryan Tiedman as an operator/maintenance technician.

Action- Calibrated modified carbon feeder to accurate dosage rates

3. Water Distribution and Water Plant – Organize maintenance programs to efficiently operate Painesville’s Water Division. (Stewardship and Improving Painesville’s image)

Action - Monthly laboratory quality controls on all laboratory equipment.

Action - Continued to discuss possible repair options with FCX regarding high service 5 valve.

Action - Made minor repairs to actuators for filters #1 and #7.

Action - Performed a complete review of SCADA and filter valve operations with engineers.

4. Water Distribution and Water Plant - Continue to provide a skilled and proficient staff to the community. (Customer Service, Communication, and Community Engagement)

Action - Requested and received backflow tests from customers.

Action - Performed new service line inspections.

Action - Monthly safety meetings with employees.

Action - Reviewing waterline projects and performing routine inspections on these projects.

Action - Performed a plant tour for 36 children and adults from summer camp with Mr. David Whittaker.

5. Water Distribution and Water Plant - Improve Management/Labor relations (Communication)

Action - Meet with employees every morning.

Action - Susan Fuerst attended all Lake County Safety Council meetings and meets with superintendent on regular basis concerning all matters regarding the Lake County Safety Council.

CITY OF PAINESVILLE WATER PLANT MONTHLY REPORT

July 2012

Pumpage, Turbidity & Chemical Use

Pumpage (MG)

Finished Flow 148.80
 Raw Flow 156.18
 Wash Water 3.28
 Plant Usage Service water 3.72

Turbidity

Average Raw 4.50
 Average Applied 0.38
 Average Tap 0.08

Chemicals Use (LBS)

Alum 20142
 Zinc OrthoPhosphate 3796
 Potassium Permanganat 287
 Fluoride 65% 1728
 Chlorine 3989
 Cationic Polymer 6
 Caustic * 0

Chemical Use Dosage (mg/L)

Alum 15.46
 Zinc OrthoPhosphate 2.91
 Potassium Permanganat 0.22
 Fluoride 65% 0.81
 Chlorine 3.06
 Cationic Polymer 0.00
 Caustic * 0.00



Chemical	Price / lb	Total Chem Cost	Cost / MG
Alum	\$ 0.14905	\$ 3,002.17	\$ 19.22
Zinc OrthoPhosphate	\$ 0.5570	\$ 2,114.37	\$ 13.54
Potassium Permanganate	\$ 2.9800	\$ 855.26	\$ 5.48
Fluoride 65%	\$ 0.4250	\$ 734.40	\$ 4.70
Chlorine	\$ 0.2390	\$ 953.37	\$ 6.10
Cationic Polymer	\$ 0.5600	\$ 3.36	\$ 0.02
Caustic *	\$ 0.1800	\$ -	\$ -
TOTAL	\$ 5.09	\$ 7,662.93	\$ 49.06

AVERAGE CHEMICAL COST/MG FINISHED \$ 51.50
 AVERAGE CHEMICAL COST/MG \$ 49.06
 AVERAGE DAILY CHEMICAL COST \$ 247.19
 TOTAL CHEMICAL COST FOR THE MONTH \$ 7,662.93



**DIVISION OF WATER
JULY 2012 REPORT**
ALL FLOW IN MILLION GALLONS

	Last Year To Date	This Year To Date	This Month Last Year	This Month
Finished Water Pumped to System				
(Million Gallons)	613.09	637.458	135.027	148.8
Water Purchased from AquaOhio	7.732	9.603	1.156	1.711
Water Sold to AquaOhio	0.006	0.000	0.000	0.000
Chestnut Pump Station	191.313	268.317	47.382	76.935
Crile Pump Station	106.994	152.634	30.798	40.100
Hermitage Pump Station	0.636	2.7037	0.075	0.759
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New Service City	16	17	1	1
New Service Outside City	18	23	3	6
Abandon Service City	4	3	1	0
Abandon Service Outside City	2	0	0	0
Service Line Replaced With Copper Or Plastic	4-C.	4-C	1	1
Footage New Main Installed City	0	3,744' of 8" C909 37' of 6" C909	0	0
Footage New Main Installed Out of City	Pri. - 94' of D.I.	0	Pri. - 94' of D.I.	0
Hydrants Repaired	21	33	1	1
New Hydrants installed	2	3	0	0

Water Main Breaks:

- 7-2-12 - Hole on 8" D.I. pipe on Morley Rd. at Tiffany Dr. (Concord)
- 7-3-12 - 5' Split on 6" C.I. pipe at Water Pollution Control Plant (City)
- 7-9-12 - Hole on 4" C.I. pipe at 809 Carson Ave. (Grand River)
- 7-10-12 - Hole on 6" C.I. pipe at 70 Adelaide Ave. (Pain. Town.)
- 7-10-12 - Hole on 8" C.I. pipe at 25 Florence Ave. (Pain. Town.)
- 7-14-12 - Hole on 8" D.I. pipe at 7333 Pinehill Dr. (Concord)
- 7-16-12 - Hole on 8" D.I. pipe at 150 Grand River Ave. (City)
- 7-17-12 - Hole on 8" D.I. pipe on Pinehill Dr. by bridge (Concord)
- 7-18-12 - 6' Split on 8" C.I. pipe on Richmond St at Richmond Rd. (City)
- 7-18-12 - 1" Split on 8" C.I. pipe at 155 Freedom Rd. (Pain. Town.)
- 7-21-12 - 6' Split on 6" C.I. pipe on Coast Guard Rd. at Headlands entrance (Grand River)
- 7-22-12 - Hole on 6" C.I. pipe on Coast Guard Rd. at Headlands entrance (Grand River)

- 21 Backflow Tested
- 4 Service line inspections
- 135 O.U.P.S Tickets completed
- 5 Pool Slips

Miscellaneous:

- 7-12-12 - Replace clamp on 6" C.I. pipe on Skinner Ave. at Sanford St. (City)
- 7-23-12 - Replace clamp on 6" C.I. pipe on Coast Guard Rd. at Headlands entrance (Grand River)
- 7-25-12 - Replace 3/4" Galvanize sevice line with 3/4" copper at 28 W. South St. (City)

George P. Ginnis
Mark Connor
Frank Mckeon

Water Division Superintendent
Water Distribution Supervisor
Water Treatment Plant Chief Operator