



PAINESVILLE WATER DIVISION

August 2012

OVERVIEW AND HIGHLIGHT

The Painesville Water Division had three water main breaks in the month of August 2012. Two of the breaks were in Painesville Township, and one was in the City of Painesville. The two breaks in Painesville Township were a 72" split and a circle break on the 6" cast iron pipe on Coast Guard Rd. This pipe was installed in 1967. The main break in the City of Painesville was a 10' split on a 6" cast iron pipe at 572 Williams St. This main was installed in the year 1953.

The City of Painesville Water Division replaced one hydrant and repaired fifty-nine hydrants. We also installed five new services. Three new service lines were installed in the City of Painesville and two additional service lines were installed in Concord Township. We lowered a tap and service line at 12051 Concord-Hambden Rd. because of problems with air in the service line. We also repaired two copper lines, one plastic line and replaced one galvanized line and three curb stops in the system.

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 jar testing for excess algae to improve water quality.

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 – Cleaned North and South raw wells.

Action – Adjusted backwash pump and flushed backwash tank (DP/Cell).

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 fluoride feeder and replaced belt.

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 - Replace the circuit board for the SC100 controller for the filter effluent.

Action - Made minor repairs to actuators for filter 9 backwash and drain valves.

Action – Replaced the motor and optical switch in the CL17 analyzer.

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.

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.



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

Finished Water Pumped to System

(Million Gallons)

Water Purchased from AquaOhio

Water Sold to AquaOhio

Chestnut Pump Station

Crile Pump Station

Hermitage Pump Station

	Last Year To Date	This Year To Date	This Month Last Year	This Month
	727.38	762.051	114.29	124.593
	9.035	11.035	1.303	1.432
	0.006	0.000	0.000	0.000
	227.086	326.120	35.773	57.803
	129.202	183.181	22.208	30.547
	0.667	3.0378	0.031	0.334
New Service City	17	20	1	3
New Service Outside City	26	25	8	2
Abandon Service City	5	3	1	0
Abandon Service Outside City	2	0	0	0
Service Line Replaced With Copper Or Plastic	4-C.	5-C	0	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.-195' of 8" PVC PRI-140' of 6" PVC PRI.-94' of D.I.	0	PRI.-195' of 8" PVC PRI-140' of 6" PVC	0
Hydrants Repaired	34	92	13	59
New Hydrants installed	2	4	0	1

Water Main Breaks:

- 8-10-12, 10' Split on 6" C.I. main at 572 Williams St.
- 8-11-12, Circle break on 6" C. I. on Coast Guard Rd.
- 8-25-12, Circle break on 6" C. I. on Coast Guard Rd.

Miscellaneous:

- 8-1-12, Lower tap and 3/4" copper service at 12051 Concord Hambden Rd.
- 8-3-12, Replace 3/4" Galvonize service with copper at 537 N. St. Clair St.
- 8-7-12, Repair hole in 2' Copper at 10783 Buckingham Pl.
- 8-8-12, Moved meter vault out of drive apron at 73 Mentor Ave.
- 8-8-12, Moved meter vault out of drive apron at 85 Mentor Ave.
- 8-15-12, Replaced curb stop at 709 Lucille Dr.
- 8-15-12, Replaced curb stop at 177 Pearl St.
- 8-16-12, Replaced curb stop at 573 N. St. Clair St..
- 8-16-12, Repaired vault at 61 E. Jackson St.
- 8-20-12, Repaired 3/4" plastic line in Recreation Park
- 8-29-12, Repaired 3/4" copper line at 7741 Auburn Rd.
- 8-29-12, Replace hydrant at 48 Orchard Grove Dr.

- (City)
- (Pain. Town.)
- (Pain. Town.)

- (Concord)
- (City)
- (Concord)
- (City)
- (City)
- (City)
- (City)
- (City)
- (City)
- (Concord)
- (City)

- 32 Backflow Tested
- 9 Service line Inspections
- 163 O.U.P.S Tickets completed
- 9 Pool Slips

George P. Ginnis
Mark Connor
Frank McKeon

Water Division Superintendent
Water Distribution Supervisor
Water Treatment Plant Chief Operator

CITY OF PAINESVILLE WATER PLANT MONTHLY REPORT

August 2012

Pumpage, Turbidity & Chemical Use

Pumpage (MG)

Finished Flow 124.59
 Raw Flow 130.10
 Wash Water 2.47
 Plant Usage Service water 3.72

Turbidity

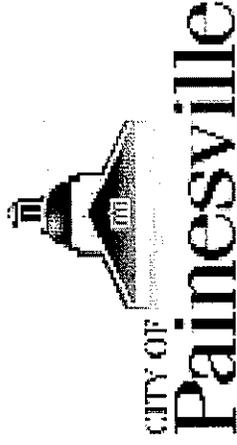
Average Raw 5.30
 Average Applied 0.36
 Average Tap 0.10

Chemicals Use (LBS)

Alum 18781
 Zinc OrthoPhosphate 3129
 Potassium Permanganat 232
 Fluoride 65% 1445
 Chlorine 3406
 Cationic Polymer 333
 Caustic * 0

Chemical Use Dosage (mg/L)

Alum 17.31
 Zinc OrthoPhosphate 2.88
 Potassium Permanganat 0.21
 Fluoride 65% 0.81
 Chlorine 3.14
 Cationic Polymer 0.31
 Caustic * 0.00



Chemical	Price / lb	Total Chem Cost	Cost / MG
Alum	\$ 0.14905	\$ 2,799.31	\$ 21.52
Zinc OrthoPhosphate	\$ 0.5570	\$ 1,742.85	\$ 13.40
Potassium Permanganate	\$ 2.9800	\$ 691.36	\$ 5.31
Fluoride 65%	\$ 0.4250	\$ 614.13	\$ 4.72
Chlorine	\$ 0.2390	\$ 814.03	\$ 6.26
Cationic Polymer	\$ 0.5600	\$ 186.48	\$ 1.43
Caustic *	\$ 0.1800	\$ -	\$ -
TOTAL	\$ 5.09	\$ 6,848.16	\$ 52.64

AVERAGE CHEMICAL COST/MG FINISHED \$ 54.96
 AVERAGE CHEMICAL COST/MG \$ 52.64
 AVERAGE DAILY CHEMICAL COST \$ 220.91
 TOTAL CHEMICAL COST FOR THE MONTH \$ 6,848.16