



## **PAINESVILLE WATER DIVISION**

**April 2012**

### **OVERVIEW AND HIGHLIGHT**

The Painesville Water Division had five water main breaks for the month of April 2012. Three of the breaks were in Concord Township, while the other two were located within the City of Painesville. A 54 year old 8" cast iron main installed in 1958 at 298 Lexington Ave. was discovered with a hole in it, which was caused by corrosion. One clamp was used to repair a 40 year old main installed in the year 1972 at 582 Monroe Blvd. This break occurred due to corrosion. Two of the main breaks in Concord Township were on a 24 year old 8" ductile iron main installed in 1988. Two clamps were used to repair the holes in the main at 11390 Big Creek Ct. The water main breaks were also due to corrosion. The third break in Concord occurred on a 52 year old main installed in 1960 on Painesville Ravenna Rd. The 12" A.C. main was also discovered with a hole in it, which was caused by corrosion and needed two repair clamps to repair the main.

The City of Painesville Water Division repaired six hydrants in the month of April. Five of these hydrants were located in Painesville City and the sixth hydrant repaired was in Grand River Village.

There were also six new service lines installed in the month of April. There were three new services installed in the City of Painesville and three additional service lines installed in Concord Township. Water Distribution also replaced three galvanized services with ¾' copper service lines.

The City of Painesville Water Division began the 2012 Uni-Directional Flushing on April 2<sup>nd</sup>. The program completed Grand River Village and Painesville Township. The Water Division worked their way into Painesville City in April and will complete it in the month of May.

## **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 Steven Bopple of the Ohio EPA on two separate 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 – Quarterly samples were taken for Total Trihalomethane and Haloacetic Acid testing.

### **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 –Raw water differential pressure transmitter cell was calibrated to ensure accuracy.

Action- Turbidity meters (10) are available for a software upgrade to improve the range of capabilities. The meters sensors are being removed and being sent out individually as to not interrupt plant operations. The turbidity meters are under warranty, and this service is at no cost to the City of Painesville.

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

Action – Reviewed completed Raw Water Intake Study by MWH Inc. I will be meeting with City manager Rita McMahon to discuss possible options.

Action – Completed Phase I of the Elm St. Waterline Project. This was the installation of approximately 3300 ft of 8” C-909 pipe on Elm St.

### **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 – Hired Lake Erie Diving to secure buoy to the crib intake structure.

Action- Repaired the raw water sample line entering the laboratory.

Action- Had annual crane inspections performed.

Action- At the water facility a 4”meter leak was repaired and additional work was required on the pipes under the filters.

### **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 - Attended Mueller Safety Training Class on how to properly and safely use and work on their products. Mueller products include hydrants, valves, and pipes.

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.

Action- Performed routine maintenance and flushed eye wash and shower stations



**DIVISION OF WATER**  
**April 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**

**New Service City**  
**New Service Outside City**  
**Abandon Service City**  
**Abandon Service Outside City**  
**Service Line Replaced With  
 Copper Or Plastic**

**Footage New Main Installed City**  
**Footage New Main Installed Out of City**  
**Hydrants Repaired**  
**New Hydrants installed**

<b>Last Year To Date</b>	<b>This Year To Date</b>	<b>This Month Last Year</b>	<b>This Month</b>
<b>367.93</b>	<b>348.231</b>	<b>89.003</b>	<b>88.846</b>
<b>4.211</b>	<b>5.440</b>	<b>0.985</b>	<b>0.977</b>
<b>0.005</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<b>85.954</b>	<b>90.498</b>	<b>20.922</b>	<b>23.007</b>
<b>42.370</b>	<b>50.871</b>	<b>10.950</b>	<b>13.599</b>
<b>0.323</b>	<b>0.6920</b>	<b>0.089</b>	<b>0.304</b>
<b>8</b>	<b>8</b>	<b>4</b>	<b>3</b>
<b>8</b>	<b>10</b>	<b>2</b>	<b>3</b>
<b>1</b>	<b>3</b>	<b>1</b>	<b>0</b>
<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>
<b>3-C.</b>	<b>3-C</b>	<b>2</b>	<b>3</b>
<b>0</b>	3,279' of 8" C909 37' of 6" C909	<b>0</b>	<b>0</b>
<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>10</b>	<b>10</b>	<b>5</b>	<b>6</b>
<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>

**Water Main Breaks:**

4-9-12- 5' Split on 8" C.I. at 298 Lexington Ave. (City)  
 4-11-12- Circle break on 8" C.I. at 582 Monroe Blvd. (City)  
 4-27-12- Hole on 8" D.I. at 11400 Big Creek Ct. (Concord)  
 4-27-12- 2nd Hole on 8" D.I. at 11400 Big Creek Ct. (Concord)  
 4-27-12- Hole on 12" A.C. on Ravenna Rd. At Creek (Concord)

20 = Backflow Tested  
 5 = Service Inspections  
 98 = O.U.P.S. Tickets

**Miscellaneous:**

4-2-12 - Began 2012 unidirectional flushing  
 4-5-12 - Re-new service at 388 Liberty St. (City)  
 4-6-12- Re-new 3/4" service at 822 N. St. Clair St (City)  
 4-10-12- Re-new service at 1150 Liberty St. (City)  
 4-20-12-Replace bolts on watch valve at 830 E. Erie St. (City)  
 4-27-17-Replace gasket on 8" valve for Big Creek Ct. (Concord)

**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

## Pumpage, Turbidity & Chemical Use

APRIL 2012

### Pumpage (MG)

Finished Flow 88.85  
 Raw Flow 92.88  
 Wash Water 1.36  
 Plant Usage Service water 2.70

### Turbidity

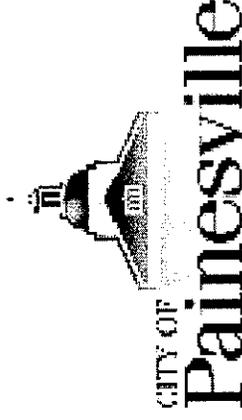
Average Raw 25.50  
 Average Applied 1.57  
 Average Tap 0.08

### Chemicals Use (LBS)

Alum 16929  
 Zinc OrthoPhosphate 2070  
 Potassium Permanganat 134  
 Fluoride 65% 992  
 Chlorine 1983  
 Cationic Polymer 64  
 Caustic \* 762

### Chemical Use Dosage (mg/L)

Alum 21.85  
 Zinc OrthoPhosphate 2.67  
 Potassium Permanganat 0.17  
 Fluoride 65% 0.78  
 Chlorine 2.56  
 Cationic Polymer 0.08  
 Caustic \* 0.98



Chemical	Price / lb	Total Chem Cost	Cost / MG
Alum	\$ 0.14905	\$ 2,523.27	\$ 27.17
Zinc OrthoPhosphate	\$ 0.5570	\$ 1,152.99	\$ 12.41
Potassium Permanganate	\$ 2.9800	\$ 399.32	\$ 4.30
Fluoride 65%	\$ 0.4250	\$ 421.60	\$ 4.54
Chlorine	\$ 0.2390	\$ 473.94	\$ 5.10
Cationic Polymer	\$ 0.5600	\$ 35.84	\$ 0.39
Caustic *	\$ 0.4200	\$ 320.04	\$ 3.45
<b>TOTAL</b>	<b>\$ 5.33</b>	<b>\$ 5,326.99</b>	<b>\$ 57.35</b>

AVERAGE CHEMICAL COST/MG FINNISHED \$ 59.96  
 AVERAGE CHEMICAL COST/MG \$ 57.35  
 AVERAGE DAILY CHEMICAL COST \$ 177.57  
 TOTAL CHEMICAL COST FOR THE MONTH \$ 5,326.99