



PAINESVILLE WATER DIVISION

DECEMBER 2011

OVERVIEW AND HIGHLIGHT

The water system has not had any water main breaks for the month of December 2011.

There were twelve hydrants repaired in the Painesville Water Division's system for the month of December. Seven were located in the City of Painesville; two were located in Concord Township; two were located in Painesville Township, and one was repaired in Grand River Township. There was also a fire hydrant replaced at 589 Williams Street in the City of Painesville from an automobile accident. The Painesville Water Division billed all costs for the hydrant to the person cited in the accident. No expenses were incurred by the Painesville Water Division for the purchase or installation of the hydrant.

There were six new service lines also installed in the month of December. Six were in Concord Township, one in the City of Painesville. Additionally, there was one copper service line replaced in Concord Township. There were two copper service lines repaired for the month of December; one was in the City of Painesville and the other was in Concord Township. There were also three curb stops repaired in the City of Painesville. The water distribution abandoned one 3/4" service which was leaking at the old hospital site on E. High St.

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 – Continue monitoring Elm St. water quality

Actions- Spoke with different representatives of the Ohio EPA on several 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.

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 – Performed Jar Testing to ensure the correct coagulant dosage.

Action- Performed Algae Identification Testing to lower turbidity.

Action- I conducted a meeting with the Ohio EPA Representatives Barb Lubberger, Katherine Springer Amey, and Linda Merchant-Masonbrink concerning our participation in a Surface Water Assessment Program.

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- The backwash pump shaft was broken. Worked on removing the shaft on the backwash pump and sent it to Ace Viking Inc to be rebuilt. We also performed the re-installation with the aid of Painesville Electric Department.

Action- Flushed the Raw Water Intakes by increasing the flow throughout the plant. By increasing the flow, the velocity is increased through the 24” and 36” raw water intake pipes, allowing debris and sand to be removed. It is now on a routine maintenance schedule.

Action- Re-installed a new sludge motor and pump that had broken.

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 from customers and received backflow tests.

Action - Performed new service line inspections.

Action - Consulted about pump install and removal procedures.

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 - Monthly safety meeting with employees

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
DECEMBER 2011 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
	1,294.159	994.76	91.982	93.526
	12.814	13.452	1.213	1.045
	6.535	0.104	0.845	0.002
	325.637	300.284	22.690	23.079
	202.652	164.076	10.562	11.050
	2.592	1.004	0.083	0.122
New Service City	45	22	4	1
New Service Outside City	46	40	4	4
Abandon Service City	6	7	1	1
Abandon Service Outside City	0	2	0	0
Service Line Replaced With Copper Or Plastic	1-P, 11-C	7-C.	0	1
Footage New Main Installed City	Pub. 155' of 6" PVC Pub. 710' of 8" PVC	1,042' Of 8" PVC	0	0
Footage New Main Installed Out of City	PRI.-1,517' of 8" D.I. Pri. 247' of 8" PVC PUB.-1,020' of 8" PVC Pub. - 25' of 8" D.I.	PRI.-770' of 8" PVC PRI.- 140' of 6" PVC PRI.-94' of 8" D.I. PRI.-132' of 4" D.I.	0	0
Hydrants Repaired	122	102	51	12
New Hydrants installed	13	3	0	1
Inspector Hours billed	489 Reg. 78 O.T.	135 Reg. 16 O.T.	0	0
Inspector Hours worked	246 Reg. 27 O.T.	135 Reg. 16 O.T.	0	0

Water Main Breaks:

None

Miscellaneous:

- 12-6-11, Repair 3/4" copper service at 270 Newell St.
- 12-9-11, Repair 3/4" curb stop at 111 Carroll Ave.
- 12-14-11, Repair 3/4" copper at 10549 Ridgewater Dr.
- 12-19-11, Repair 3/4" curb stop at 48 Fredrick St.
- 12-28-11, Repair 3/4" curb stop at 418 Liberty St.

- (City)
- (City)
- (Concord)
- (City)
- (City)
- 17 Backflow Tested**
- 5 Service line inspections**
- 109 O.U.P.S Tickets completed**
- 0 Pool Slips**

George P. Ginnis
Mark Connor
Frank McKeon

Water Division Superintendent
Water Distribution Supervisor
Water Treatment Plant Chief Operator

Pumpage, Turbidity & Chemical Use

Pumpage (MG)

Finished Flow 88.84
 Raw Flow 93.53
 Wash Water 0.74
 Plant Usage Service water 3.80

Turbidity

Average Raw 48.50
 Average Applied 1.61
 Average Tap 0.10

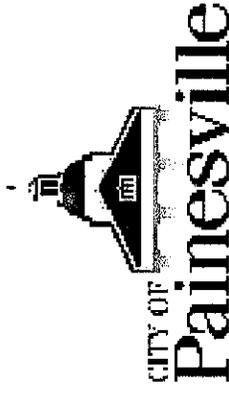
Chemicals Use (LBS)

Alum 26605
 Zinc OrthoPhosphate 1996
 Potassium Permanganat 0
 Fluoride 65% 1004
 Chlorine 2235
 Cationic Polymer 91.47
 Caustic * 6886

Chemical Use Dosage (mg/L)

Alum 34.11
 Zinc OrthoPhosphate 2.56
 Potassium Permanganat 0.00
 Fluoride 65% 0.79
 Chlorine 2.87
 Cationic Polymer 0.12
 Caustic * 8.83

DECEMBER 2011



Chemical	Price / lb	Total Chem Cost	Cost / MG
Alum new bid increase	\$ 0.14905	\$ 3,965.48	\$ 42.40
Zinc OrthoPhosphate	\$ 0.5570	\$ 1,111.77	\$ 11.89
Potassium Permanganate	\$ 2.9800	\$ -	\$ -
Fluoride 65%	\$ 0.4250	\$ 426.70	\$ 4.56
Chlorine	\$ 0.2390	\$ 534.17	\$ 5.71
Cationic Polymer	\$ 0.5600	\$ 51.22	\$ 0.55
Caustic *	\$ 0.1800	\$ 1,239.48	\$ 13.25
TOTAL	\$ 5.09	\$ 7,328.82	\$ 78.36

AVERAGE CHEMICAL COST/MG FINNISHED \$ 82.50
 AVERAGE CHEMICAL COST/MG \$ 78.36
 AVERAGE DAILY CHEMICAL COST \$ 236.41
 TOTAL CHEMICAL COST FOR THE MONTH \$ 7,328.82