



PAINESVILLE WATER DIVISION

SEPTEMBER 2011

OVERVIEW AND HIGHLIGHT

The water system had one main line water break for the month of September 2011. The 6" cast iron pipe is a private main owned by Lake Metro Parks. They hired Bentley Excavating Inc. to repair the 6" cast iron water main with a 6" full circle clamp to cover the hole, which was caused by corrosion.

There were four hydrants repaired in the Painesville Water Division's system for the month of September. All of which were located in the City of Painesville.

There were four new services also installed in the month of September. Two were in Concord and the remaining two were in the City of Painesville. Also there was one old $\frac{3}{4}$ " galvanized service abandoned in the City of Painesville.

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 – Began performing weekly analysis of algae identification to enhance water quality.

Actions- Action- Performed jar test on alum polymer blend (Delta Chemical)

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

Action – Had discussion with Ohio EPA representative Stephen Bopple.

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 helping with maintenance at tanks and pump stations.

Action - Ronald Foresi (Heavy Equipment Operator) is hauling sludge from the plant on a semi-regular basis.

Action- Generator power can fully operate entire facility including raw building. (Raw water building tie-in completed by Painesville Electrical Division).

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 – Performed routine maintenance on the applied, raw, east and west turbidity meters.

Action- Cleaned both Cl-17 analyzers and changed reagents

Action- Cleaned raw basins (east and west).

Action- Switched to rapid mix #1 to perform general maintenance on rapid mix #2.

Action- Small new structure was constructed to house gas well.

Action- Replace #3 filter sweep valve.

Action- Removed and repaired flow tube from filter #1.

Action- Crile Rd. generator was inspected and repaired by Ohio CAT.

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 – Cross-training Shawn Knebusch for full certification in the Wet Chemistry Laboratory.

Action – Cross-training Terrance Baideme for operational certification in the Wet Chemistry Laboratory.

Actions- Water Distribution employees went to jackhammer and tamper demonstration

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.

Action- Worked with the employees to test the man-down device at the Painesville Water Plant to ensure employee's safety.



**DIVISION OF WATER
 SEPTEMBER 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
	1,009.98	819.74	111.235	92.36
	9.491	5.514	1.239	1.303
	3.431	0.063	0.000	0.058
	259.062	254.695	29.062	27.695
	162.860	142.372	24.570	13.170
	2.303	0.771	0.300	0.104
New Service City	36	19	5	2
New Service Outside City	37	28	9	2
Abandon Service City	4	6	0	1
Abandon Service Outside City	0	2	0	0
Service Line Replaced With Copper Or Plastic	1-P, 10-C	4-C.	0	0
Footage New Main Installed City	Pub. 155' of 6" PVC Pub. 710' of 8" PVC	0	Pub. 710' of 8" PVC	0
Footage New Main Installed Out of City	PRI.-1,366' of 8" D.I. Pri. 247' of 8" PVC PUB.-1,020' of 8" PVC	PRI.-195' of 8" PVC PRI.-140' of 6" PVC PRI.-94' of D.I.	Pri. 591' of 8" D.I. Pri. 247' of 8" PVC	0
Hydrants Repaired	68	37	4	3
New Hydrants installed	11	2	6	0
Inspector Hours billed	423 Reg. 63 O.T.	23 Reg. 1.5 O.T.	66 Reg. 15 O.T.	23 Reg. 1.5 O.T.
Inspector Hours worked	246 Reg. 27 O.T.	23 Reg. 1.5 O.T.	131 Reg. 19.5 O.T.	0

Water Main Breaks:
 9-23-11, Hole on 6" C.I. main at Lake Metro Parks

(Concord)

**43 Backflow Tested
 4 Service line inspections
 164 O.U.P.S Tickets completed
 0 Pool Slips**

Miscellaneous:

9-7-11, Abandoned 3/4" Galvanized service at 37 Hartshorn Dr. (City)
 9-20-11, High pressure tie into low pressure main at Cali Ct. (Concord)

**George P. Ginnis
 Mark Connor
 Frank McKeon**

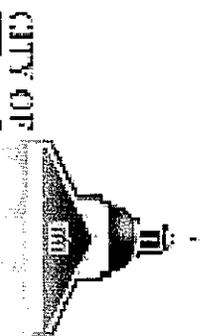
**Water Division Superintendent
 Water Distribution Supervisor
 Water Treatment Plant Chief Operator**

Data updated to 9/27/11
 to ensure its received by
 Admisntration and City Council

CITY OF PAINESVILLE WATER PLANT MONTHLY REPORT

September 2011

Data updated to 9/27/11
to ensure its received by
Administration and City Council.



PAINESVILLE

Pumpage, Turbidity & Chemical Use

<u>Pumpage (MG)</u>	
Finished Flow	92.37
Raw Flow	98.51
Wash Water	1.52
Plant Usage Service water	4.62

Turbidity

Average Raw	9.90
Average Applied	0.42
Average Tap	0.10

Chemicals Use (LBS)

Alum	14823
Zinc OrthoPhosphate	2210.13
Potassium Permanganat	184.5
Fluoride 65%	1083
Chlorine	2617
Cationic Polymer	210.68
Causitic *	321

Chemical Use Dosage (mg/L)

Alum	18.04
Zinc OrthoPhosphate	2.69
Potassium Permanganat	0.22
Fluoride	0.80
Chlorine	3.19
Cationic Polymer	0.26
Causitic *	0.39

Chemical	Price / lb	Total Chem Cost	Cost / MG
Alum	\$ 0.14905	\$ 2,209.37	\$ 22.43
Zinc OrthoPhosphate	\$ 0.5570	\$ 1,231.04	\$ 12.50
Potassium Permanganate	\$ 2.9800	\$ 549.81	\$ 5.58
Fluoride 65%	\$ 0.4250	\$ 460.28	\$ 4.67
Chlorine	\$ 0.2390	\$ 625.46	\$ 6.35
Cationic Polymer	\$ 0.5600	\$ 117.98	\$ 1.20
Causitic *	\$ 0.1800	\$ 57.78	\$ 0.59
TOTAL	\$ 5.09	\$ 5,251.72	\$ 53.31

AVERAGE CHEMICAL COST/MG FINNISHED \$ 56.86
 AVERAGE CHEMICAL COST/MG \$ 53.31
 AVERAGE DAILY CHEMICAL COST \$ 175.06
 TOTAL CHEMICAL COST FOR THE MONTH \$ 5,251.72

Electrical Usage Per Million Gallons High Service

KW'S/MG	2016.93
MAX DEMAND	363.30
COST / MG	\$166.75