



PAINESVILLE WATER DIVISION

AUGUST 2011

OVERVIEW AND HIGHLIGHT

The Water Division repaired three leaks in the month of August. On August 1, 2011 the 24" cast iron water main by Newell St. was discovered with a bell clamp leaking, which was created by corrosion. The bell clamp and bell were cut out and a 4' piece of ductile iron pipe and two dresser clamps were installed on the 87 year old main. On August 12, 2011 another section of the 24" cast iron water main by Newell St. was discovered with a repair clamp leaking that was also the result of corrosion. The repair clamp was reset and the bolts were replaced. On August 15, 2011 a ¾" galvanized service line was abandoned from the 59 year old 4" cast iron main at 99 E. Erie St. On August 29, 2011, the 51 year old 12" cast iron main at 224 E. Walnut ruptured causing a 6' split within the main. This main was repaired with a new 6' piece of ductile iron main and two dresser clamps.

There were six hydrants repaired in the system for the month of August. Three were in the City of Painesville, two were in Concord Township and one was in Painesville Township.

There were nine new services installed in the month of August 2011. Eight were in Concord and one was in the City of Painesville.

Goals achieved

Water Distribution #1 and Water Plant Goal #1- To maintain a safe, reliable and high quality water supply to our customers/Optimize Water Plant operations

Actions - All breaks 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- Performed routine jar tests on raw water to determine efficiency of coagulant dosages.

Water Distribution #2- Optimize system operations

Actions - Distribution employees working in Lab and Plant operations

Actions - 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.

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

Water Distribution #3 and Water Plant Goal #4 – Responsiveness to the community/Employee relations and communications

Action - Meet with employees every morning.

Action - Monthly safety meeting with employees

Water Distribution Goal #4 and Water Plant Goal #5 - Provide the highest qualified, professional workforce/Responsiveness to the community

Action - Requested from customers and received backflow tests.

Action - Performed new service line inspections.

Action - Susan Fuerst attended all Lake County Safety Council meetings.

Action - Verifying pool slips.

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- Eight employees were sent for Confined Space Training provided by the Painesville Electric Department (Mr. Daniel Plageman-Instructor).

Water Plant Goal #2- Good working relationship with the EPA and being in compliance with all regulations.

Action – Had discussion with Ohio EPA representative Charles Valsulka

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

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

Water Plant Goal #6 - Organize Plant procedures in the laboratory, maintenance and operations.

Action - Continued performing chemical analysis of Elm St.

Action - Monthly laboratory quality controls on all laboratory equipment.

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

Action – Replaced filter #4 (solenoid) drain valve.

Action – Installed new clearwell level sensor.

Action – Made in-house repairs to zinc-orthophosphate drain line (re-plumbed).

CITY OF PAINESVILLE WATER PLANT MONTHLY REPORT

August 2011

Pumpage, Turbidity & Chemical Use

Pumpage (MG)

Finished Flow 114.29
 Raw Flow 121.89
 Wash Water 2.16
 Plant Usage Service water 4564.00

Turbidity

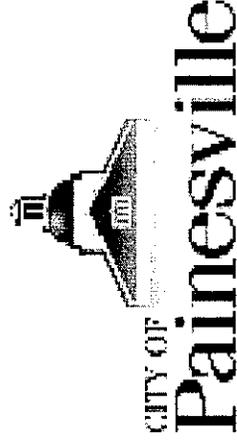
Average Raw 8.30
 Average Applied 0.43
 Average Tap 0.09

Chemicals Use (LBS)

Alum 18014.4
 Zinc OrthoPhosphate 2737.8
 Potassium Permanganat 219.5
 Fluoride 65% 1344
 Chlorine 3209
 Cationic Polymer 6.07
 Caustic * 0

Chemical Use Dosage (mg/L)

Alum 17.72
 Zinc OrthoPhosphate 2.69
 Potassium Permanganat 0.22
 Fluoride 65% 0.81
 Chlorine 3.16
 Cationic Polymer 0.01
 Caustic * 0.00



Chemical	Price / lb	Total Chem Cost	Cost / MG
Alum	\$ 0.14905	\$ 2,685.05	\$ 22.03
Zinc OrthoPhosphate	\$ 0.5570	\$ 1,524.95	\$ 12.51
Potassium Permanganate	\$ 2.9800	\$ 654.11	\$ 5.37
Fluoride 65%	\$ 0.4250	\$ 571.20	\$ 4.69
Chlorine	\$ 0.2390	\$ 766.95	\$ 6.29
Cationic Polymer	\$ 0.5600	\$ 3.40	\$ 0.03
Caustic *	\$ 0.1800	\$ -	\$ -
TOTAL	\$ 5.09	\$ 6,205.66	\$ 50.91

AVERAGE CHEMICAL COST/MG FINNISHED \$ 54.30
 AVERAGE CHEMICAL COST/MG \$ 50.91
 AVERAGE DAILY CHEMICAL COST \$ 200.18
 TOTAL CHEMICAL COST FOR THE MONTH \$ 6,205.66

Electrical Usage Per Million Gallons

KW'S/MG 1630.06
 MAX DEMAND 384.00
 COST / MG \$159.13



**DIVISION OF WATER
AUGUST 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
	898.74	727.38	142.567	114.29
	8.252	5.514	0.970	1.303
	3.431	0.005	0.000	0.000
	230.000	227.086	36.000	35.773
	138.290	129.202	24.400	22.208
	2.003	0.667	0.354	0.031
New Service City	31	17	0	1
New Service Outside City	28	26	6	8
Abandon Service City	4	5	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	155' of 6" PVC	0	0	0
Footage New Main Installed Out of City	PRL-775' of 8" D.I. PUB-4,070' of 8" PVC	PRL-195' of 8" PVC PRL-140' of 6" PVC PRL-94' of D.I.	0	PRL-195' of 8" PVC PRL-140' of 6" PVC
Hydrants Repaired	64	34	14	13
New Hydrants installed	5	2	0	0
Inspector Hours billed	357 Reg. 48 O.T.	0	0	0
Inspector Hours worked	115 Reg. 7.5 O.T.	0	0	0

Water Main Breaks:

8-1-11, Cut out 24" bell and bell clamp in field by Newell St.
8-12-11, Replaced bolts on two 24" dressers in field by Newell St.
8-29-11, 6' Split on 12" C.I. main at 224 E. Walnut St.

(Pain. Town.)
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(City)

24 Backflow Tested
2 Service line inspections
143 O.U.P.S Tickets completed
9 Pool Slips

Miscellaneous:

8-15-11, Abandone 3/4" galanize service at 99 E. Erie St.

(City)

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

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