

Ashville Utility Department Monthly Operations Report



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Water and Sewer Divisions

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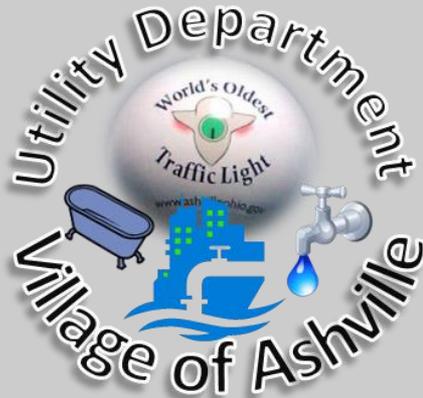
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Ashville Vision Statement

Remembering our rural heritage, Ashville will be a vibrant and friendly community, offering an enhanced quality of life achieved through planning, progress and collaboration.

It will be a welcoming place where people want to live and businesses prosper.



Utility Purpose Statement

“Quality of Life” will be enhanced by offering the best quality of water to our community and by ensuring that water is returned to Walnut Creek in the best possible condition for our environment.

The Utility Consumer will be treated in a “Friendly Manner”. Operations will be done in a manner to cost effective.

Services will be provided in a manner to create a place where people want to live and businesses prosper.





ACTIVITY REPORT

Monthly 2014 & YTD Information



Expenses and Revenue Comparison

Water

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projected	Budget	Ave	Mean
Water Division Tank Revenue	\$2,395.94	\$1,780.02	\$5,372.80	\$3,085.20	\$1,705.30	\$6,201.61	\$2,316.08	\$1,835.31	\$1,904.38	\$1,991.09	\$1,724.06	\$1,596.81	\$31,908.60	\$31,908.60	\$30,164.00	\$2,659.05	\$1,947.74
Water Division Total Revenue	\$30,457.44	\$26,461.39	\$59,203.61	\$32,332.66	\$27,298.71	\$55,796.74	\$40,591.00	\$25,902.97	\$53,632.73	\$28,208.92	\$27,807.31	\$22,586.89	\$430,280.37	\$430,280.37	\$403,653.00	\$35,856.70	\$29,333.18
Water Division Expenses	\$42,243.49	\$32,364.80	\$22,155.81	\$54,218.94	\$21,535.24	\$49,641.05	\$22,994.43	\$32,932.42	\$31,464.67	\$30,475.28	\$16,158.85	\$35,885.45	\$392,070.43	\$392,070.43	\$462,495.08	\$32,672.54	\$31,914.74
Water Balance	-\$11,786.05	-\$5,903.41	\$37,047.80	-\$21,886.28	\$5,763.47	\$6,155.69	\$17,596.57	-\$7,029.45	\$22,168.06	-\$2,266.36	\$11,648.46	-\$13,298.56	\$38,209.94	\$38,209.94	-\$58,842.08	\$3,184.16	\$1,748.55

Wastewater

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projected	Budget	Ave	Mean
Wastewater Division I & I Revenue	\$3,269.98	\$2,295.39	\$3,126.31	\$2,242.02	\$2,160.89	\$5,280.06	\$2,458.35	\$2,329.40	\$2,314.83	\$2,592.32	\$2,178.18	\$2,039.37	\$32,287.10	\$32,287.10	\$20,296.00	\$2,690.59	\$2,322.12
Debt Service Fee							\$4,220.63	\$4,510.58	\$4,613.70	\$5,210.07	\$4,474.79	\$4,172.99	\$27,202.76	\$54,405.52	\$0.00	\$4,533.79	\$4,492.69
Wastewater Division Total Revenue	\$45,811.28	\$215,643.56	-\$118,333.03	\$46,551.69	\$46,551.12	\$49,302.76	\$54,349.92	\$53,035.05	\$53,429.93	\$57,709.01	\$51,097.81	\$46,280.10	\$601,429.20	\$601,429.20	\$553,622.00	\$50,119.10	\$50,200.29
Wastewater Division Expenses	\$29,585.23	\$22,589.12	\$20,634.46	\$26,270.47	\$39,576.58	\$141,400.17	\$22,530.15	\$32,850.39	\$27,315.04	\$26,008.74	\$37,774.58	\$96,848.11	\$523,383.04	\$523,383.04	\$629,648.14	\$43,615.25	\$28,450.14
Wastewater Balance	\$16,226.05	\$193,054.44	-\$138,967.49	\$20,281.22	\$6,974.54	-\$92,097.41	\$31,819.77	\$20,184.66	\$26,114.89	\$31,700.27	\$13,323.23	-\$50,568.01	\$78,046.16	\$78,046.16	-\$76,026.14	\$6,503.85	\$18,205.36
Wastewater Plant Expansion	\$3,294.06	\$168,844.00	-\$168,844.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,294.06	\$3,294.06	\$0.00	\$274.51	\$0.00

Equipment Maintenance = \$321.68
 1996 Jeep Maintenance = 611.099
 2000 Chevy Truck Maintenance = \$38.00
 1996 Jeep Cherokee = \$200 throttle cable \$205.10
 2000 Chevy Flat repair and antifreeze \$30.99
 1996 Jeep Battery replaced and tune up \$203.98

Equipment Maintenance = \$201.71 for John
 Deer Tractor/Loader
 2004 Blue Utilities Van = \$8.32
 2000 Chevy Repair front wheel speed sensor,
 alternator, drive belt tensioner, fuel fill neck
 for a \$643.97 total

Water Division

Treatment Plant Activity:

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projected	Ave	Mean	Measure
Total Gallons Raw Water Pumped:	20.115	18.625	20.463	19.488	20.804	20.19	21.301	21.609	18.154	17.975	17.562	18.41	234.696	234.696	19.56	19.8015	MGD
Total Gallons Treated:	17.397	16.141	17.386	16.482	17.669	16.885	17.589	17.773	16.392	17.068	16.571	17.191	204.544	204.544	17.05	17.1295	MGD
Total Water Billed	10.157	10.721	10.494	7.600	13.013	11.075	12.740	7.664	5.993	7.634	7.011	7.118	111.22	111.22	9.27	8.9105	MGD
Total Gallons to Waste:	2.718	2.484	3.077	3.006	3.135	3.305	3.712	3.863	1.762	0.907	0.991	1.219	30.179	30.179	2.51	2.862	MGD
Average Daily Treated Water:	0.561	0.577	0.561	0.549	0.57	0.563	0.567	0.573	0.546	0.551	0.552	0.555	6.725	6.725	0.56	0.561	MGD
Total Chlorine Used: (disinfection)	500	220	350	370	475	450	480	350	375	400	380	388	4738	4738	394.83	384	Gallons
Average Chlorine used/day:	16.1	8	11	12	15	15	15	11	12.5	13	13	13	154.6	154.6	12.88	13	GPD
Average Chlorine Residual:	0.4	0.5	0.34	0.44	0.48	0.34	0.32	0.34	0.41	0.45	0.32	0.32	4.66	4.66	0.39	0.37	mg/l
Total Salt used:	24.58	24	24.43	49.22	25.27	24.97	24.8	24.64	25.61	25.37	25.42	24.73	323.04	323.04	26.92	24.885	Tons
Percentage between Treated & Billed	41.62%	33.58%	39.64%	53.89%	26.35%	34.41%	27.57%	56.88%	63.44%	55.27%	57.69%	58.59%	45.63%	45.63%	45.74%	47.75%	Percentage

Test for Distribution:

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projected	Ave	Mean	Measure
Average Iron Concentration:	0.33	0.22	0.33	0.23	0.42	0.54	0.39	0.55	0.41	0.21	0.19	0.23	4.05	4.05	0.34	0.33	mg/l
Average Manganese Concentration:	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.04	0.39	0.39	0.03	0.03	mg/l
Average Hardness Concentration:	222	208	253	200	277	251	300	257	205	149	197	172	2691	2691	224.25	215	mg/l
Average Chlorine Residual:	0.46	0.44	0.63	0.56	0.53	0.46	0.45	0.49	0.35	0.47	0.41	0.32	5.57	5.57	0.46	0.46	mg/l

Distribution System Activity:

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projected	Ave	Mean
Meters Installed (Radio Read):	0	0	1	6	14	7	4	7	6	7	6	5	63	63	63	5.25
New Water Tap Inspections:	0	0	1	1	0	0	0	0	0	0	1	0	3	3	0.25	0
Meter Inspections (Checks)	0	0	0	0	0	0	0	0	9	4	7	1	21	21	1.75	0
Final Reads:	5	2	8	5	3	10	12	9	7	7	3	6	77	77	6.42	6.5
Meter Reread:	0	3	10	15	9	1	12	9	0	18	7	7	91	91	7.58	8
Monthly Water Shut-offs Notice:	117	84	82	75	100	93	78	58	120	97	79	97	1080	1080	90.00	88.5
Water Shut-off Notice:	0	0	0	0	0	10	1	0	0	0	0	0	11	11	0.92	0
Water Shut-offs:	5	7	19	2	9	3	1	8	18	4	1	4	81	81	6.75	4.5
Water Turn On's:	4	1	6	3	0	1	0	0	7	1	2	2	27	27	2.25	1.5
Curb Box Repairs:	0	0	2	2	0	1	0	2	0	0	0	0	7	7	0.58	0
Main Value Repairs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0
Line Locates:	0	0	2	1	1	0	0	3	2	2	1	1	13	13	1.08	1
Customer Service - Check for Leaks:	1	4	6	0	0	2	0	0	0	0	0	0	13	13	1.08	0
Customer Service - Miscellaneous	0	0	0	10	3	5	2	2	2	4	0	4	32	32	2.67	2
Water Breaks:	0	1	0	1	0	0	1	0	0	0	0	0	3	3	0.25	0
Meter Repairs	0	0	0	3	0	0	0	0	0	0	0	0	3	3	0.25	0
Blue Tags Delivered	0	1	3	1	8	0	0	2	0	1	0	0	16	16	1.33	0.5
Backflow Surveys/Inspections	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0.08	0
Frozen Service Intervention	4	0	0	0	0	0	0	0	0	0	0	0	4	4	0.33	0
Fire Hydrant Repair	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0.08	0
Total # Work Orders Completed:	136	104	140	125	147	134	111	100	171	145	107	127	1547	1547	128.92	130.5

Water Plant Maintenance

December:

- High service pumps both checked and serviced by H.D. Pumps
- Refurbished chlorine pump installed
- New hour meters on high service pumps installed
- Contingency plan finished and distributed
- New curb box South/Popular Streets
- Service line repair and curb box reset Cline Ct.
- Air compressor serviced oil change

November:

- Generator hook up is complete
- Hydrant on Long Street was repaired and put back into service
- New main breaker for motor control center at plant installed
- 4 new breakers for new meters were installed along with wire placed in conduit
- 2 curb boxes dug up and realigned on East and Scioto Streets



Water Plant Maintenance

October:

- New Main Line Valve Installed on Park Street
- New Generator Power Supply Connection Installed at WTP
- New Well Pump Installed at Well #4
- New Heaters installed at well control, West Tower, East Tower
- Chlorine Feed Line at WTP new insulation installed

September:

- New 6 inch main line Raw Meter installed SEP
- New 8 inch main line Final Meter installed SEP
- 2 new 2 inch blend meters installed
- 2 new 2 check valves installed
- Well #3 gate valve new seal installed
- Brick at water plant restored and cracks in masonry repaired

August:

- AC/Heating cleaned and controller installed at water plant garage
- Chart recorder at water plant serviced and calibrated
- Contact hours at BSP in Chillicothe

July:

- None Reported



Water Plant Maintenance

January:

- Installed air relief valve on 8-inch water softener feed lines
- Installed 2 air relief valves on 4-inch water softener discharge lines

February:

- New exhaust fan in Chlorine Room
- New air compressor switch installed
- New communication radios installed at water plant, well 4, plant tower, 752 tower
- New air release valve installed on softener 1
- New plumbing and chlorine bulk storage tanks installed

March:

- New Roof on Plant
- Installed two (2) new air release valves on softeners

April:

- FCC Radio license renewed

May:

- None Reported

June:

- None Reported



Wastewater Division

Treatment Plant Activity:

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projected	Ave	Mean	Measure
Total Rainfall:	2.16	1.91	2.56	6.06	4.1	4.24	4.02	2.23	1.69	2.83	1.45	3.57	36.82	36.82	3.07	2.70	Inches
Total Gallons Treated	16,458	16,105	13,65	20,413	17,32	10,402	9,569	9,166	9,29	8,553	7,719	10,161	148,806	148,806	12.40	10.28	MGD
Total Wastewater Billed	6,601	7,024	6,995	6,790	6,311	8,031	6,256	6,782	7,539	6,851	5,500	6,494	81,1737	81,1737	6.76	6.786	MGD
Average Daily Treated Water:	0.531	0.575	0.44	0.68	0.559	0.347	0.309	0.296	0.31	0.276	0.257	0.328	4.908	4.908	0.41	0.34	MGD
Total Chlorine Used: (disinfection)	0	0	0	0	315	300	300	310	300	310	0	0	1835	1835	152.92	150.00	Gallons
Average Chlorine used/day:	0	0	0	0	10	10	10	10	10	10	0	0	60	60	5.00	5.00	GPD
Average Chlorine Residual:	0	0	0	0	0.17	0.022	0.022	0.02	0.02	0.02	0	0	0.274	0.274	0.02	0.01	mg/l
Total Thiosulfate Used for Dechlor:	0	0	0	0	135	131	131	217	210	217	0	0	1041	1041	86.75	65.50	lbs
Average Thiosulfate Used /Day:	0	0	0	0	4.36	4.36	4.36	7	7	7	0	0	34.08	34.08	2.84	2.18	lbs
Average Raw (inflow) CBOD/Day:	451.71	618.62	535.76	680.54	475.53	355.96	399.44	385.73	416.89	431.6	415.82	278.69	5446.29	5446.29	453.86	424.25	lbs/day
Average CBOD removed/Day:	425.14	611.62	522.89	650.77	447.56	346.55	387.6	980.48	401.7	420.67	414.53	262.6	5872.11	5872.11	489.34	422.91	lbs/day
% Removed CBOD:	94.12	98.87	97.6	96	94	97.4	97.03	98.64	96.36	97.47	99.69	94.23	1161.41	1161.41	96.78	97.22	%
Average Raw Total Suspended Solids:	688.64	858.4	908.23	873.37	798.38	515.85	480.62	551.74	626.31	566.25	471.54	425.37	7764.7	7764.7	647.06	596.28	lbs/day
Average TSS Removed/Day:	675.91	851.99	893.07	857.06	769.24	509.34	479.27	547.12	618.59	557.33	397.93	417.5	7574.35	7574.35	631.20	587.96	lbs/day
% Removed TSS:	98.15	99.25	98.33	98.13	96.35	98.74	99.72	99.16	98.59%	98.42%	95.30%	98.15	888.9031	888.9031	74.08	98.15	%
Average Daily Dissolved Oxygen:	8.94	9.13	9.55	8.72	9.13	9.56	8.75	7.97	8.52	11.81	12.35	9.67	114.1	114.1	9.51	9.13	mg/l
Total Sludge Wasted to Digester:	128,840	133,940	263,140	135,490	44,360	25,120	87,130	45,980	182,220	115,770	256,800	199,120	1,617,910	1,617,910	134,826	131,390	Gallons
Total Sludge Land Applied	0	0	0	31.98	12.73	12.73	3.32	0	0	23.67	0	0	84.43	84.43	7.04	0.00	Dry Tons
Sludge removed to other facility	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	Gallons
Percentage between Treated & Billed	40.11%	43.61%	51.25%	33.26%	36.44%	77.21%	65.37%	73.99%	81.15%	80.10%	71.25%	63.91%	183.32%	183.32%	59.80%	64.64%	Percentage

Stream Conditions

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projected	Measure
Up Stream Dissolved Oxygen:	17.3	14	13.3	9.6	9.5	8.7	11.9	8.7	9.4	13	14.9	12	11.86	11.95	mg/l
Up Stream pH:	7.2	7.3	7.4	7.6	7.6	7.6	8.4	8.3	8.4	8.3	8.4	8.4	7.91	7.95	s.u.
Up Stream Temperature:	1	2	6	15	22	19	23	23	18	17	10	7	13.58	16.00	C
Down Stream Dissolved Oxygen:	16.5	15.7	13	9.7	9.7	8.7	11.6	8.3	9.2	12.9	14.6	11	11.74	11.30	mg/l
Down Stream pH:	7.2	7.3	7.4	7.6	7.6	7.6	8.4	8.3	8.4	8.2	8.4	8.3	7.89	7.90	s.u.
Down Stream Temperature	3	4	6	15	22	19	22	22	18	17	11	11	14.17	16.00	C

Collection System

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total	Projected	Ave	Mean
New Taps:	1	0	0	0	0	0	0	0	0	1	0	0	2	2	0.16666667	0
Collection Maintenance Calls:	4	1	1	4	2	2	0	0	1	1	0	0	16	16	1.33333333	1
Located Sewer Taps	0	0	0	0	0	0	0	2	0	0	1	0	3	3	0.25	0
Total Work Orders	5	1	1	4	2	2	0	2	2	1	1	0	21	21	1.75	1.5

Wastewater Plant Maintenance

September:

- Greased all mechanical equipment and recorded in Maintenance log
- Level probes cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station
- Installed No. 1 RAS Pump

October:

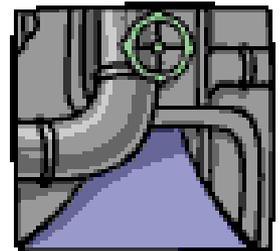
- Greased all mechanical equipment and recorded in maintenance log
- Repaired skimmer mechanism North final clarifier
- Level probes cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station
- 96 Jeep Oil change/battery terminals/test charging system \$69.00
- 2000 Chevy truck oil change/wiper blades \$42.18
- 600 KW generator – 4 new tires/grease wheel bearings \$577.43

November:

- Greased all mechanical equipment and recorded in Maintenance log
- Level probes cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station

December:

- Greased all mechanical equipment and recorded in Maintenance log
- Installed new ball floats in RAS wet well
- Replaced 2 amp fuse in RAS wet well
- No. 2 Flyght RAS pump overloading main breaker, pulled for repair
- Level probes cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station



Wastewater Plant Maintenance

April:

- Greased all mechanical equipment and recorded in maintenance log
- Level probes cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station
- Repaired level controls - Ashton Woods Lift Station
- 2004 Blue Utilities Van \$8.32
- 1996 Jeep Cherokee \$200

May:

- Greased all mechanical equipment and recorded in maintenance log
- Level probes cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station
- Main line sewer backup at Ruth Place (Dreier & Maller, Inc.)

June:

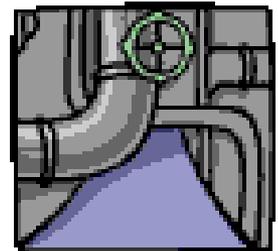
- Greased all mechanical equipment and recorded in maintenance log
- Level probes cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station

July:

- Greased all mechanical equipment and recorded in maintenance log
- Level probes cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station

August:

- Greased all mechanical equipment and recorded in maintenance log
- Pulled No. 1 RAS Pump
- Sludge Screw Press Demo
- Repaired chlorine pump
- Level probes cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station



Wastewater Plant Maintenance

January:

- Rebuilt #2 blower installed – operational
- Mechanical bar screen: Electrical upgrade to make screen run automatically (AMELCON, INC.)

February:

- Greased all mechanical equipment and recorded in maintenance log
- One sewer backup on Morrison Avenue caused by Ashton Woods Pump Station Failure
- Level probes and cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station
- Ashton Woods Pump #1 repaired and alarm repaired 2/13/2014
- Surveying for new Water Resource Recovery Facility.

March:

- Greased all mechanical equipment and recorded in maintenance log
- Repaired broken pump discharge pipe – West Equalization (EQ) Basin
- Drained / cleaned north and south final clarifiers
- Installed safety fence around final clarifier splitter box
- Repair broken shear pin in north final clarifier
- Level probes and cleaned at Ashton Crossing Lift Station and Ashton Woods Lift Station
- Repaired level controls - Ashton Woods Lift Station
- Equipment Maintenance \$201.71
- John Deer Tractor/loader

