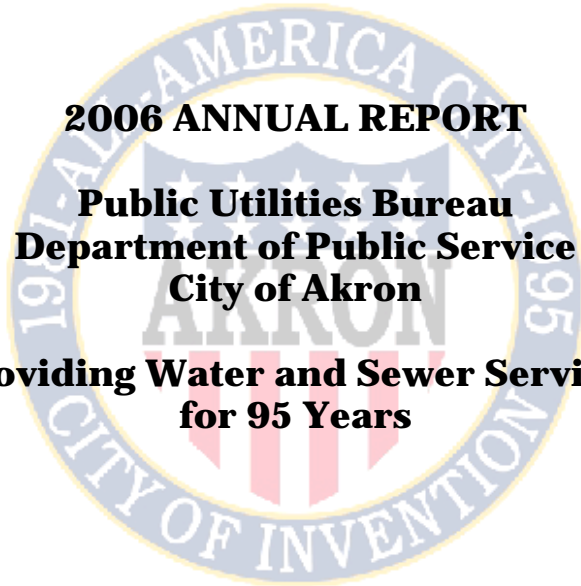




**2006 ANNUAL REPORT**

**Public Utilities Bureau  
Department of Public Service  
City of Akron**

**Providing Water and Sewer Services  
for 95 Years**



**Richard A. Merolla**  
Service Director



**Michael L. McGlinchy, P.E.**  
Public Utilities Bureau Manager

**DONALD L. PLUSQUELLIC**  
Mayor

November 26, 2007

Mr. Richard A. Merolla, Director  
Department of Public Service  
City of Akron, Ohio

Dear Mr. Merolla:

The Annual Report of the Akron Public Utilities Bureau (APUB) for 2006 is hereby submitted in accordance with the provisions of Sections 84 and 127 of the Charter of the City of Akron. This report presents APUB water and sewer system activities, financial operations, and conditions. The water and sewer service area for the Akron Public Utilities Bureau includes Akron and many suburban communities and townships as indicated within this report.

Providing water and sewer services is a 24 hours per day, 7 days per week, 365 days per year operation. It is through the professionalism and dedication of the 318 talented employees in the Public Utilities Bureau that this quality service is provided. Our employees endeavor throughout the year to enhance the environment in which we all live. The expanse of projects and employee participation in teams, professional organizations, and in community activities is evidence of their dedication to Akron water and sewer customers.

The Public Utilities Bureau mission is to provide the best possible water and sewer service at affordable rates to all of our customers, utilizing all facets of our integrated operations. Meeting that mission requires us to continually change and improve the way we perform our business. The Continuous Improvement initiative builds on a previous benchmarking study, a competitiveness assessment report, an employee responsiveness survey, the Blue Ribbon Panel Report, and the Competitive Action Program. These programs improve every area of Public Utilities Bureau operations. A list of APUB 2006 significant accomplishments is attached to this letter.

Our ultimate success requires the commitment, honest input, and active participation of our many knowledgeable and talented employees. This input will further the success of work teams, task forces, and other study groups. Pilot programs previously conducted at the Water Pollution Control Station and Water Supply Plant successfully tested the team-based organization, flexible worker, and other best practices. The team-based organization was implemented at the Water Pollution Control Station in 2006.

In addition to City of Akron sponsored activities, APUB employees participate in water and sewer industry related activities at schools and with community groups, including making numerous presentations. Also, tours of the Water and Wastewater Treatment Plants are given on an annual basis.

Ongoing succession planning is a critical process as 40% of APUB employees are or will become eligible for retirement within the next five years. A Utilities Intern program was implemented in 2006 that places seniors in Akron Public Schools at APUB facilities to gain valuable work experience and become eligible to become a permanent City employee upon graduation. This program brings new employees in at the entry level with a high level of needed skills, training and energy to the APUB organization.

The Customer Information and Billing System (CIS) for water, sewer and curb service billing with an integrated Interactive Voice Response (IVR) system continues to be an important tool to increase customer service levels. The process to convert the Municipal and Utility Package Software (MUPS) to enQuesta, both furnished by Systems & Software, Inc., started in 2006 with completion anticipated in early 2007. The project replacing 84,000 residential water meters and installing Electronic Receiver/Transmitters (ERTs) for Automatic Meter Reading (AMR) completed in 2005 at a cost of \$18 million produced meter reading accuracy of 99.7% in 2006.

APUB employees, along with our vast array of treatment processes, work to consistently meet and exceed current federal and state water treatment requirements for drinking water. Our water delivery system continues to meet the water supply needs of our customers, provide an ample supply of water for firefighting purposes, all while maintaining treated water quality. APUB employees also operate a reliable sewage collection system and wastewater treatment system that meets all current federal and state wastewater treatment requirements. Recycling of water and sewage treatment residuals into beneficial, environmentally acceptable and usable byproducts has further demonstrated our progressive commitment to improving the environment.

As shown within this report, the 2006 treated drinking water met the current Maximum Contaminant Levels (MCLs) for EPA regulated and unregulated contaminants at all times by a substantial margin. The Public Utilities Bureau's Annual Consumer Confidence Report (CCR) provides our customers with specific information on water quality based on laboratory analysis of EPA listed contaminants and is published annually by July of each year. A taste and odor situation in early 2006 caused by the compound methylisoborneol was successfully handled by the Water Plant staff through exhaustive research, testing and conferring with other water utilities across the U.S.

Through the combined efforts of many talented and dedicated employees at the WPCS, the effluent from the Wastewater Treatment Plant consistently met the NPDES permit limits during 2006. The WPCS achieved a Gold Award (no violations) from the National Association of Clean Water Agencies (NACWA) for the year 2006. The history of no raw (untreated) bypasses at WPCS since 1988 continued during 2006. Observations, recordings,

and analyses of sampling for water quality in the Cuyahoga River showed no significant impacts from the WPCS effluent. Operations at the Sludge Composting Facility continue under a ten-year contract for operations, maintenance and capital with KB Compost Services, Inc. This contract is estimated to save \$13 million over the ten-year contract period. As a result of a five-year contract extension entered into in 2005, construction of an Anaerobic Digestion System (ADS) as an alternative means of biosolids processing was ongoing. This project is an important part of evaluating composting technologies for the long-term.

In support of the City's long term tax sharing goals, a 99 year water service contract with the City of Stow was executed in 2006. The contract was part of an overall package that included tax sharing, lease of a wellfield, and operations/maintenance of Akron-owned water lines in a portion of Hudson.

Improvements for water supply perimeter security continue along with other improvements to water and sewer system security as funding permits. Additional grant funding through Homeland Security is needed to fund important security improvements.

Priority investment to comply with regulations, maintain existing service levels, and improve reliability and performance of the system will require additional monies beyond those traditionally spent on the capital program. This reinvestment will ultimately pay large dividends for our customers and employees. The major capital program projects outlined in the 2006 Profile/Direction/Highlights and the 2006 Project Report reflect this commitment to our shareholders – our present and future customers.

The challenges facing the City of Akron in the Public Utilities Bureau in the next several years are immense. The new requirements of the August 6, 1996, reauthorized Federal Safe Drinking Water Act, the Microbial/Disinfection By-Product Rules, and regulations on depressurization, nickel, radon, radionuclides, the revised Lead and Copper Rule, pesticides, Ground Water Rule, Filter Backwash Recycling Rule, operator certification, and Public Notification Rule will have far reaching effects on the capital program, operations, and rates of the water system for years to come. The ongoing development and negotiation of the Combined Sewer Overflow Long Term Control Plan (CSOLTCP) and implementation schedule will have major impacts on the capital program and operations of the sewer system over the next 30 years and beyond. The first major LTCP project is the Rack 40 Storage Basin completed in 2006 at a cost of \$18 million – reducing the annual CSO volume for the Akron system by 33%. Anticipated regulations on Watershed-based Total Maximum Daily Loads (TMDLs), Whole Effluent Toxicity (WET) testing, dramatically reduced mercury levels, anti-backsliding, and anti-degradation regulations will further impact the sewer utility operations and capital program.

A key goal of the Public Utilities Bureau is the planned reinvestment in the water and sewer systems to keep them viably and physically sound for this and future generations. It is imperative that future users not be burdened with a deteriorated system or one well beyond its generally accepted life expectancy. With the water and sewer systems created in 1880 and 1916, respectively, and with a large percentage of the water system constructed between 1910-1920, planned reinvestment at proper levels will be an immense challenge.

I, along with the entire Public Utilities Bureau, wish to express appreciation to the Mayor, City Council, Service Director, former Service Director Gerald Holland, and the officials within the City Administration and other City employees for their continued interest, assistance, and dedication in the operation of this Bureau.

Sincerely,

A handwritten signature in cursive script that reads "Michael L. McGlinchy".

Michael L. McGlinchy, P.E.  
Public Utilities Bureau Manager

MLM:pt

Attachment

## **AKRON PUBLIC UTILITIES BUREAU 2006 ACCOMPLISHMENTS**

### **Administration**

- The Akron Public Utilities Bureau received the Excellence in Management Recognition Program award from the National Association of Clean Water Agencies in February 2006.
- Completed negotiations resulting in an executed agreement with the City of Stow for a 99 year water service and tax sharing agreement.
- Completed negotiations resulting in an executed agreement with the County of Summit to transfer ownership of water lines in Hudson to Akron effective January 2007.
- Completed negotiations resulting in an executed agreement with the County of Summit to transfer water lines in the Smith Road area of Bath Township to Akron.
- Completed first phase of reorganization at Water Pollution Control by filling newly created non-bargaining positions and adding a CSPA position. The positions created and filled were APUB Trainer, Planner/Scheduler, Safety and Training Coordinator, Team Leader – Operations & Maintenance, Team Leader – Administration & Technology, Team Leader – Environmental Compliance, and Plant Automated Control Technician.
- Initiated a Utilities Intern program with Akron Public Schools to have high school seniors work in Public Utilities while completing their high school education. The work is entry level semi-skilled work that will provide full-time employment opportunities for the students when they graduate. The first three students in the program, Ajani Akili, Anthony Mook, and Kevin Strickland began work in December.

### **Business Services Division**

- Average hold time for customer calls was 3:40, down from 5:22 during 2005.
- Attempted 1,021,000 automated meter readings with a success rate of 99.7%.

### **Sewer Utilities Field Operations**

In an effort to provide a quality service to the citizens of Akron in compliance with Ohio Environmental Protection Agency guidelines, we accomplished the following items in 2006:

- In 2006, the construction of the Rack 40 storage basin was completed at a cost of \$18 million. This basin will capture up to 10 million gallons of combined sewage per event from Racks 30, 31, and 40. The system is monitored and controlled automatically from the Distributed Control System at the Water Pollution Control Station via a fiber optic network. In a joint venture with WPCS, Sewer Maintenance will be responsible for the cleaning and maintenance of this facility and WPCS will be responsible for operating it.

- In 2006, we embarked on a very challenging goal of creating a functional Computerized Work Management System (DataStream 7i). In conjunction with this goal, we also embarked on converting all of the sewer assets into a geodatabase that could be used in a GIS format. By October, Utilities Engineering led the effort to assign specific asset ID's to nearly 200,000 assets and the DataStream 7i CWMS was fully implemented. Since this time, we have created in excess of 6,500 work orders in 7i.
- In an effort to improve the efficiency of the collection system, we set goals to clean and document the condition of 1/10<sup>th</sup> of the collection system. By the end of 2006, we accomplished the following items:
  1. We televised 91.5 miles of sewer. This is a 30% increase from 2005.
  2. We cleaned 151.5 miles of sewer. This is a 4% increase from 2005.
  3. We cleaned 6,100 inlets. This is an increase of 10% from 2005.
  4. We inspected 6,400 manholes. This is an increase of 20% from 2005.
- We are constantly focused on providing a quality service to our citizens. As such, we strive to respond to all complaints in a quick and efficient manner. During 2006, we responded to 901 customer calls regarding potential sewer related issues. Of these 901 calls, only 80 were attributed to blockages in the sewer system. This is an 8% decrease from 2005 and in line with our goal to cut blockages by 10% every year.
- In addition to responding to customer complaints, we provide a free service to our citizens televising sewer laterals. Our inspection team documents the condition and locates problems in laterals for our citizens. In 2006, we televised in excess of 700 laterals for our citizens. From these inspections, we identified and repaired 101 laterals in 2006 that had deficiencies located within the public right-of-way.
- In 2006, we increased the sewer service area by adding the Robinwood Hills (Bath Township) and Copley Meadows (Copley Township) allotments to our service area. The addition of these allotments added two new and two existing pump stations, 151 manholes, and 6.2 miles of sewer lines.

### **Water Pollution Control Division**

The Akron Water Pollution Control Division continues to produce a high quality effluent while reducing expenditures and operating within Ohio Environmental Protection Agency guidelines. Some specific accomplishments for the year 2006 include:

- The Water Pollution Control Division qualified for another NACWA Peak Performance Gold Award. The Division operated for all of 2006 without a single incidence of exceeding the operating permit. The last permit exceedances occurred in May 2004. There are over 2,800 individual permit parameters that are reported annually.
- In 2006, the construction of the Rack 40 storage basis was completed at a cost of \$18 million. This basin will capture up to 10 million gallons of combined sewage per event from Racks 30, 31, and 40. The system is monitored and controlled automatically from the Distributed Control System at the Water Pollution Control Station via a fiber optic network. In a joint venture with WPCS, Sewer Maintenance will be responsible for the cleaning and maintenance of this facility and WPCS will be responsible for operating it.

- The Water Pollution Control Division is committed to employee training and safety. Of the 54 division employees, 39 hold State of Ohio Wastewater Operator certification. Those license holders are required to obtain continuing education contact hours for certification renewal. All license holders renewing in 2006 obtained the requisite contact hours mainly through in-house training certified by the Ohio EPA!
- In order to maintain a productive environment following retirements of key employees, we have produced hundreds of standard operating procedures that document the work that we do. This effort has also resulted in repeatability of routine tasks and training materials for new employees.
- Planned Maintenance consistently stayed above 70%. Being proactive in our maintenance efforts has significantly increased equipment reliability through reduced break-downs and process interruptions. This also facilitates our efforts to operate the facility with reduced staff.
- Overtime expenditures due to staff shortages in 2006 were down 44% as compared to 2005. This was mainly due to further reductions in on-site staffing for 24/7 operations. Ten years ago, there were up to nine employees on shift at all times, today there are only three!
- Two division staff presented papers at the Water Environment & Technology conference in Dallas, Texas in October. Both papers discussed the results of pilot testing new technologies for wastewater treatment here at the Akron Water Pollution Control Station. The City of Akron Water Pollution Control Division continues to be a recognized leader in our industry for being proactive with testing cutting-edge treatment technologies.
- The City of Akron Water Pollution Control Division and KB Compost Services, Inc. have partnered to install a new technology to anaerobically digest a portion of the biosolids generated at the wastewater treatment plant. This process will generate a biogas that will be used to generate electricity for on-site usage. The construction is nearly 70% complete.

### **Water Supply Division**

- In late 2005 and early 2006, Akron's drinking water experienced an unexpected and severe taste and odor problem. The cause of the taste and odor problem was a chemical compound called 2-methylisoborneol (MIB). This compound is produced by certain species of blue-green algae commonly found in lakes and reservoirs. Over an eight-week period, thousands of customers complained of an unpalatable earthy, musty, and/or dirty taste and odor in their water. The event resulted in substantial negative publicity in the news media.

Traditional treatment methods used in the summer months to eliminate tastes and odors were not effective on this particular problem. Through diligent research and aggressive changes to the treatment processes, Water Supply personnel were able to identify the cause (MIB) and tailor the treatment processes to maximize the removal of this compound. One of the most significant changes was the installation of a temporary powdered activated carbon feed line to the plant intake at Lake Rockwell, which gave the carbon more time to react with the raw water prior to the addition of other treatment chemicals. MIB levels were reduced to below the detection level in a short time after the carbon line was installed.

Akron has implemented proactive measures to reduce the potential for further MIB problems and to provide for early warning should the problem reoccur. Proactive measures include more frequent application of algaecide to Lake Rockwell and East Branch Reservoir, increased reservoir releases to minimizing water detention time (long detention times contribute to increased algae growth), regular sampling of the reservoirs for MIB levels, and daily odor tests on the plant's raw and finished water.

- A mineral rights lease was executed for four gas wells that will generate revenue for the water fund.

### **Water Utilities Field Operations**

- The Water Utilities Field Operations worked the entire year of 2006 without a lost-time injury.
- The DataStream 7i work order management program was implemented.
- There is now a permanent two-person crew operating valves on pre-assigned routes using specialized valve operating equipment.

### **Utilities Engineering**

- Converted all 1,477 sewer underground records from AutoCAD to assets in a geodatabase.
- Developed a geodatabase for approximately 200,000 sewage collection system assets, and finalized geodatabase design for the future transfer of approximately 400,000 water distribution system assets. This information will be available to the City GIS and other applications.

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Front cover: Providing high-quality drinking water to our customers involves a complex process of treating, transporting, storing, and delivering the drinking water to over 90,000 customers in Akron and surrounding communities. However, the process does not end there; sanitary and combined sewage must be transported to the Water Pollution Control Station where it will be treated and discharged into the Cuyahoga River.

Top row, left: The process begins at Akron’s Water Supply Plant in Portage County. Water from Lake Rockwell is treated at the Plant and passes through the filter gallery, shown in this picture. The average pumping rate for the Plant in 2006 was over 34,000,000 gallons of water per day.

Top row, right: The treated water travels through force mains to Akron’s distribution system and is stored in several reservoirs. This view, from atop the Tallmadge Heights standpipe looking southwest, we see four Low Boy reservoirs in North Hill where over 17,000,000 gallons of water are stored.

Bottom row, left: Every year, over 6,400 manholes are inspected and over 150 miles of sewers are cleaned. This photo shows the interior of a sewer being cleaned by a combination sewer cleaning truck. Maintaining Akron’s sewer system is vital for the purpose of collecting and transporting sanitary and combined sewage to the Water Pollution Control Station.

Bottom row, right: At the Water Pollution Control Station, one of the final steps of the process is to disinfect the treated effluent. This photo shows the Chlorine Contact Tank which discharged over 27,000,000,000 gallons of treated wastewater into the Cuyahoga River in 2006.

## **Mission**

People providing quality, cost-effective water and sewer services to protect our communities' health and environment.

## **Vision**

To be a recognized leader of innovative, competitive water and sewer services.

To achieve the vision means:

- Workers at all levels are well trained, enthused and motivated.
- Productivity and efficiency are optimized and sustainable.
- Customers recognize water and sewer services as high quality.
- Systems, methods and tools for best practices, such as strategic planning, performance management, and technology, are in place.
- Meeting and/or exceeding regulatory compliance requirements.
- Financial plan is in place to ensure adequate operating and capital revenue.
- Asset management plan is in place to optimize life of physical and technological assets.
- Effective working relationships are in place with key stakeholders.
- Recognized by industry associations for high performance among comparable-sized utilities.

## **Our Service Area**

The Akron Public Utilities Bureau provides water and sewer service to the City of Akron and all or portions of 18 cities or townships in Summit County. Additional details on our water and sewer service areas can be found in the Akron Watered Service Area map and the Akron Sewered Service Area map included in this report.

## 2006 Projects Report

### Sanitary Sewers

Cuyahoga Street Storage Facility – Construction of storage/treatment basin to capture overflows from CSO Racks 40, 30 and 31. Cost \$18,000,000.



Approx. 15,000 cubic yards of concrete were poured to form the basin.



The storage basin can capture up to 10 million gallons of combined sewage per event from Racks 30, 31, 40.

### Water Distribution

Spicertown: Power Street – Extension of waterline. Cost \$73,000.

Water Main Replacement – Constructed new and replacement water mains under Contract Number 794-06B. Cost \$2,600,600.

Construction workers re-laying the 20" water main at Wooster pump station.



### Water Supply Facilities

East Branch Dam Concrete Slab Lifting, Repairs – Minor repairs to restore integrity of East Branch Reservoir Dam. Cost \$30,000.



East Branch Reservoir Dam

## Water Supply Division Divisional Report

The Water Supply Division manages, operates, and maintains the City of Akron's drinking water treatment plant and source water supply. The division's mission is to provide consumers with an ample supply of high-quality drinking water that meets all regulatory requirements at affordable rates. The Akron Water Supply Plant is located about 12



miles northeast of Akron and two miles northeast of Kent, Ohio. The plant is adjacent to its source of supply, Lake Rockwell, which is formed by a dam on the Cuyahoga River. The average pumping rate in 2006 was 34.8 million gallons per day (MGD), a 6.5% reduction from 2005 (37.2 MGD). The maximum approved capacity of the water plant is 67 MGD. Akron's source water system, comprised of Lake Rockwell in Portage County, LaDue and East Branch Reservoirs in Geauga County, and the Cuyahoga River connecting these reservoirs, provided a sufficient supply of water to all customers for the entire year. The safe yield of Akron's reservoir system is approximately 60 MGD.

In 2006, Akron's treated drinking water met or exceeded all primary drinking water standards as required by the Ohio Administrative Code and enforced by Ohio EPA. The water plant produced its record lowest average turbidity water, matching the 2005 value of 0.068 NTU. Turbidity is a measure of the visual cloudiness in water and is an indicator of the potential presence of certain viruses and/or Cryptosporidium. The water produced by Akron's water plant in 2006 was well below the EPA's 0.3 NTU limit. This record turbidity can be attributed to the year long efforts of the water plant personnel to add the optimum chemical doses to treat the water along with optimum operation of the filters.

Akron's drinking water did not have a reoccurrence of the taste and odor problem that occurred in late 2005 and early 2006. This can be attributed in part to the efforts of personnel to minimize the detention time of water in the reservoirs by increasing the releases of water, regular monitoring of the raw water for MIB and Geosmin, and daily odor tests of the raw and finished water.

Akron completed its triennial distribution system monitoring for lead and copper in 2006. This program involved taking and analyzing 50 lead and copper samples from customers' taps. The results of the monitoring showed that Akron's water remains below the required action levels established by Ohio EPA. Akron has been in compliance with the lead and copper rules since the first round of sampling in 1992. Sampling will be required again in 2009.

Akron's new CT monitoring station was completed in late 2005 and placed online in January 2006. The construction of this facility was mandated by Ohio EPA. The purpose of the CT monitoring station is to obtain the appropriate water quality parameters (pH, temperature, and free chlorine residual - C) to determine if disinfection is sufficient to remove Giardia and viruses that may be present in the water. Two new pitometer style meters were also installed on the discharge mains from the water plant to facilitate accurate time measurements for the C x T calculation.

In October 2006, Akron began a 24-month monitoring program for Cryptosporidium levels in Lake Rockwell. This program is mandated by USEPA as part of the Long Term 2 Enhanced Surface Water Treatment Rules. The results of this monthly monitoring will determine if Akron has to implement additional treatment techniques for Cryptosporidium in the future.

In 2006, Akron entered into a lease agreement with Gonzoil Inc. for drilling oil and gas wells on watershed property adjacent to Lake Rockwell and Lake Pippen. Gonzoil received initial approval to construct up to ten wells, with an option for an additional ten wells if approved by the City. Under this agreement, Akron receives a spud fee for each well drilled and royalties for all natural gas sold by Gonzoil.

The agreement with ODNR for use of watershed property in Geauga and Portage Counties became effective March 1, 2006. Through this agreement, ODNR will be using Akron property to manage a public recreation program that will include boating, fishing, hunting, bird watching and hiking on most of Akron's watershed properties. Lake Rockwell and surrounding properties are not included, nor are prior leased properties, including East Branch Reservoir, farmland, houses and other miscellaneous properties.

## **Water Utilities Field Operations Division Divisional Report**

The Utilities Field Operations Division is comprised of three sections – Utilities Engineering, Water Distribution, and Sewer Maintenance. Utilities Engineering designs and inspects capital improvement projects, Water Distribution operates and maintains the City of Akron water distribution system, and Sewer Maintenance operates and maintains the City’s sewer collection system.

The Water Distribution System includes the underground network of water force mains, transmission mains, feeder mains, and local mains and their associated valves, fire hydrants, and service connections. It also includes the normal service storage reservoirs, the high service booster pumping stations and their corresponding standpipes and elevated tanks.

Water Distribution also operates and maintains the distribution systems in the cities of Fairlawn and Mogadore, and in the Joint Economic Development Districts in Bath, Copley, Coventry, and Springfield Townships. Additionally, Water Distribution is responsible for the mains serving DaimlerChrysler AG and Great Lakes Canning in Twinsburg Township, and miscellaneous customers in Boston Township and Cuyahoga Falls.

As of December 31, 2006, the distribution system contained 1,202 miles of water mains, plus 43.1 miles of force mains, ranging in size from 4 inches to 54 inches in diameter, approximately 92,000 active water services, 29,544 valves, 11,763 hydrants, 4 active elevated tanks, 6 standpipes, and 5 storage reservoirs, and 10 high service booster pumping stations. Treated water is delivered from the Akron Water Supply Plant at Lake Rockwell in Portage County to the Distribution System via the force mains.

Water Distribution System projects completed and/or in progress during 2006 included the Water Main Construction & Replacement under contract #794-06A and #794-06B, along with miscellaneous JEDD projects.



## **Business Services Division Divisional Report**

The Business Services Division performs the customer service, billing, collection, accounting, meter reading and meter maintenance functions of the Bureau. We have major technology improvements planned in our Meters section and Business Office section to improve customer service and reduce costs.

The Meters and Customer Service Core Teams recommended replacement of all meters and automation of meter reading. We have replaced all 1” and smaller meters and read them remotely using wireless radio transmitters. We have issued a Request for Proposals for new meters with automated meter reading devices for our commercial and industrial accounts. Until we convert these meters to our new reading system, we will manually read them every three months. Many of the manually read meters are located in underground vaults and require air quality monitors and confined space entry procedures to safely obtain the readings.

We have completed an aggressive testing program for our new customer information system. This new browser-based system will enable our customer service representatives to complete transactions in less time than our current system. In addition, the new system contains features requested by our customers such as online bill payment and pay-by-phone. We anticipate ‘going live’ with the new system during 2007.

Our call center and counter payment areas continue to process a high volume of transactions. During 2006, our customer service representatives responded to an average of 327 telephone inquiries per day and performed an average of 297 cashiering transactions per day.

The technology improvements underway within the division reflect requests by our customers for new or improved services. These improvements will also help us become more cost efficient and productive.



## **Sewer Utilities Field Operations Division Divisional Report**

The Utilities Field Operations Division is comprised of three sections, i.e., Utilities Engineering, Water Distribution, and Sewer Maintenance. Utilities Engineering designs and inspects capital improvement projects, Water Distribution operates and maintains the City of Akron water distribution system, and Sewer Maintenance operates and maintains the City's sewer collection system.

The sewer collection system includes the sanitary, storm, and combined sewer systems, which collect and transport sanitary and combined sewage to the Akron Water Pollution Control Station on Akron-Peninsula Road, or storm water to points of stream discharge. The system consists of main sewer lines, manholes, inlets, inlet leads, lateral connections, combined sewer overflow racks and overflows, pump stations, force mains, and a retention tank. The Sewer Maintenance Section also maintains ditches that receive storm water from City-standard storm sewers.

The Sewer Maintenance Section also operates and maintains sanitary sewers and pump stations constructed by the City of Akron in the Joint Economic Development Districts in Bath, Copley, Coventry, and Springfield Townships.

As of December 31, 2006, the sewer system included 1,365 miles of sewer (690 miles of sanitary sewers, 369 miles of storm sewers, 175 miles of combined sewers, 131 miles of inlet lead connections), 28,377 manholes, 22,375 inlets, 38 pump stations, and two (2) combined sewer retention tanks.

Sewer projects started and/or completed in 2006 included: Cuyahoga Street Storage Facility, Cleveland-Massillon Road Pump Station, and Wealthy Road Pump Station.



## **Water Pollution Control Division Divisional Report**

The Water Pollution Control Division of the Public Utilities Bureau is responsible for the maintenance and operation of the Akron Water Pollution Control Station, the Environmental Compliance Section, which includes the Industrial Pretreatment Program, as well as the management and enforcement of a long term agreement for the operation and maintenance of the Akron Compost Facility.

The effluent from the Akron Water Pollution Control Station is authorized by a National Pollution Discharge Elimination System (NPDES) permit issued by the Ohio Environmental Protection Agency. This permit requires monitoring of the influent, plant bypasses, plant effluent and the Cuyahoga River above and below the plant as well as several points within the sewerage system.

In 2006, the Water Pollution Control Station treated 27.547 billion gallons of wastewater at an average rate of 75.44 million gallons per day. From this, 803 tons of screenings and 887 tons of grit were removed and disposed of. Primary treatment removed 7,786 tons of dry solids while secondary treatment removed 5,524 tons of dry solids. The solids removed were further processed through the Compost Facility. To disinfect the final effluent, a total of 64,716 pounds of disinfectant were used.

The 13,310 dry tons of solids processed at the Compost Facility generated 94,461 cubic yards of finished compost sold through bag and bulk sales.

The Akron Water Pollution Control Station's compliance with regulatory requirements is unprecedented, with the facility being recognized again in 2006 with a performance award from the National Association of Clean Water Agencies (NACWA).

The total year-end staffing numbers remained the same from the previous year; however, there were some new employees that started in 2006. Most of the new support positions resulting from the pilot have been filled, including the Team Leader positions. The issue of our aging workforce continues to be real, and efforts continue to try and find good entry level personnel that can be trained for the more advanced positions. The construction of the new storage basin on Cuyahoga Street is about complete. The facility will be operated by the Water Pollution Control Division and maintained by the Sewer Field Operations group. Work continues on the anaerobic digestion process at the Compost Facility and that should be operational in mid-2007.

The Water Pollution Control Division continues to be a model in the City for its openness to new ideas, technological advancement, innovation and refinement of its business practices. It is with that mindset that the Water Pollution Control Division can continue to provide effective and affordable wastewater treatment service for our customers.



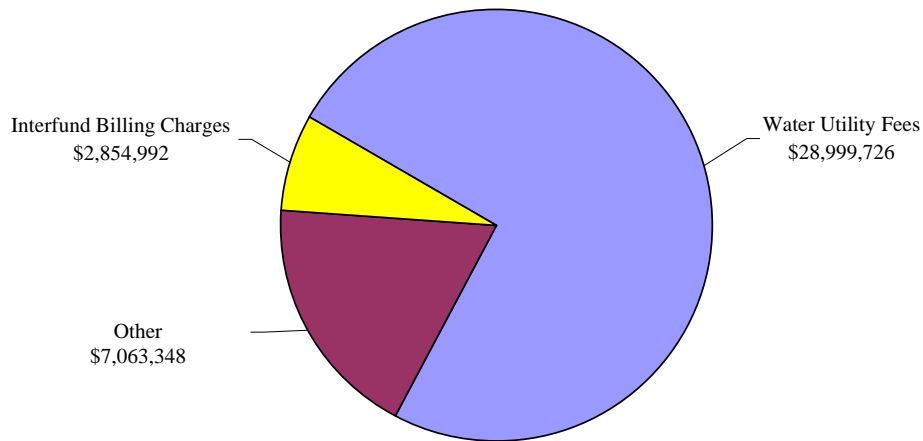
<b>2006 Employment Summary</b>	
<b>Water Utility</b>	<b>Full-Time Employees</b>
PUB Administration	4
Water Supply	37
Utilities Field Operations - Water	95.5
Business Services	59
<b>TOTAL</b>	<b>195.5</b>
<b>Sewer Utility</b>	<b>Full-Time Employees</b>
Utilities Field Operations - Sewer	53.5
Water Pollution Control Division	59
<b>TOTAL</b>	<b>112.5</b>
<b>Storm Utility</b>	<b>Full-Time Employees</b>
Utilities Field Operations - Sewer	10
<b>GRAND TOTAL</b>	<b>318</b>

## Financial

The Akron Public Utilities Bureau has two enterprise funds: Water Fund and Sewer Fund. The General Fund finances our storm water maintenance program. The following charts and graphs present an overview of the Bureau's enterprise funds on a Generally Accepted Accounting Principal (GAAP) basis and a modified cash basis. The 'Statement of Revenues and Expenses and Changes in Net Assets' is prepared on a GAAP basis. This information is also included in the City of Akron's Comprehensive Annual Financial Report. The pie charts reflect revenues and expenditures on a modified cash basis.

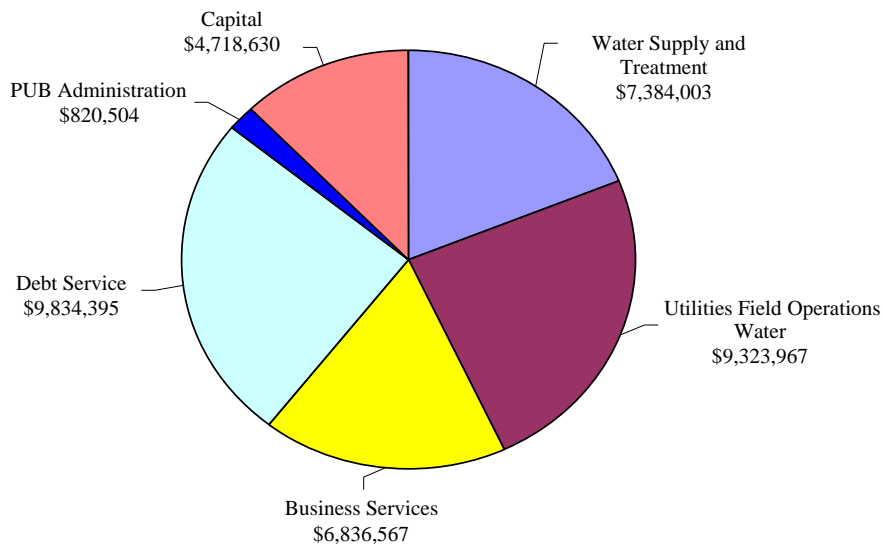
### Water Fund Revenue

**\$38,918,066**



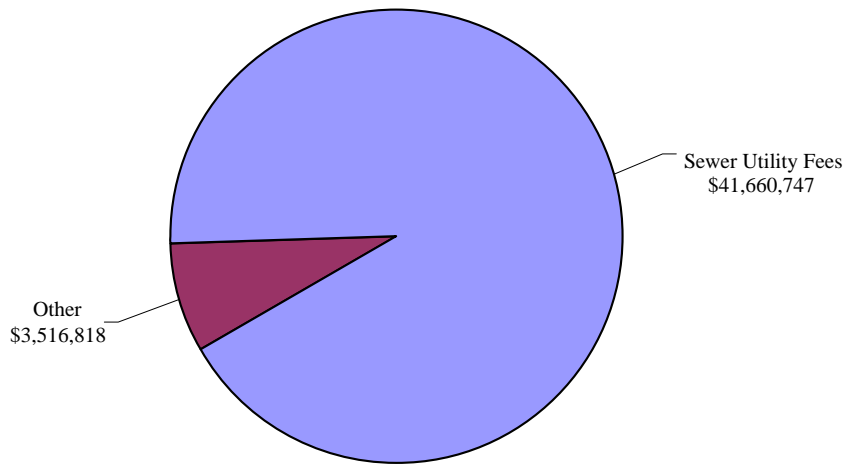
### Water Fund Expenditures

**\$38,918,066**



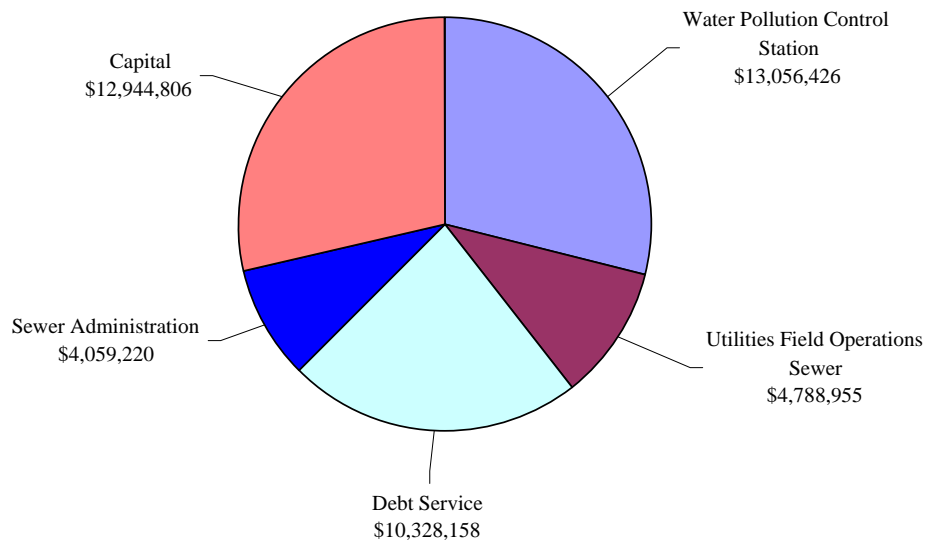
### Sewer Fund Revenue

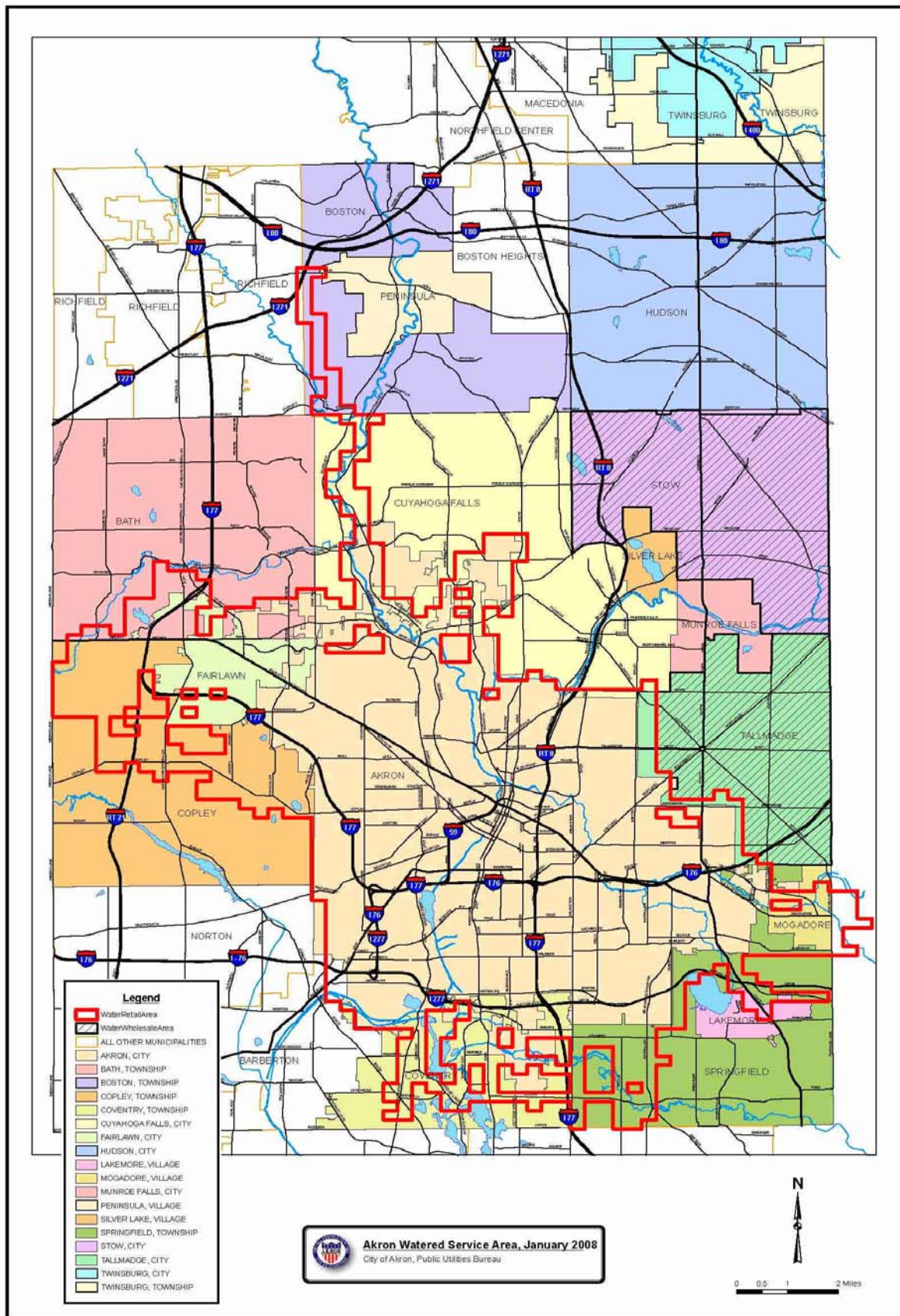
**\$45,177,565**



### Sewer Fund Expenditures

**\$45,177,565**





## Water – Metered Billings, Metered Consumption and Number of Accounts

In 2006, the aggregate dollar value of water billings to accounts in the City of Akron constituted 74% of total billings in our service area while billings to other retail service areas and our master meter communities constituted 13% and 13% respectively. The aggregate metered consumption of water in the City of Akron constituted 71% of total metered consumption in our service area, while consumption in other retail service areas and our master meter communities constituted 11% and 18% respectively. The aggregate number of water accounts in the City of Akron constituted 88% of total accounts in our service area while aggregate accounts in other retail service areas constituted 12%.

Water – Metered Billings, Metered Consumption and Number of Accounts						
Service Area	Water Billings	Percentage of Total Billings	Metered Consumption (HCF)	Percentage of Consumption	Total Accounts	Percentage of Accounts
Akron	\$21,570,553	74.35%	9,040,091	71.26%	73,272	88.18%
<b>Retail Service Areas</b>						
Fairlawn	\$1,133,259	3.91%	415,707	3.28%	2,749	3.31%
Copley Township	888,277	3.06%	331,478	2.61%	1,852	2.23%
Summit County – Montrose	513,384	1.77%	190,372	1.50%	1,904	2.29%
Mogadore	506,899	1.75%	170,023	1.34%	1,458	1.75%
Coventry Township	202,040	0.70%	80,354	0.63%	327	0.39%
Summit County – Mud Brook	185,335	0.64%	77,050	0.61%	531	0.64%
Springfield Township	157,685	0.54%	60,061	0.47%	328	0.39%
Bath Township	135,231	0.47%	42,928	0.34%	455	0.55%
Cuyahoga Falls	59,771	0.21%	18,303	0.14%	121	0.15%
Tallmadge	55,293	0.19%	18,401	0.15%	82	0.10%
Boston Township	9,122	0.03%	19,232	0.15%	18	0.02%
Kent	919	0.00%	6,166	0.05%	1	0.00%
Subtotal	\$3,847,215	13.26%	1,430,075	11.27%	9,825	11.82%
<b>Master Meter Areas</b>						
Stow	\$2,224,645	7.67%	1,319,421	10.40%	N/A	N/A
Tallmadge	859,248	2.96%	636,070	5.01%	N/A	N/A
Summit County	510,509	1.76%	260,186	2.05%	N/A	N/A
Subtotal	\$3,594,402	12.39%	2,215,677	17.47%	N/A	N/A
Grand Total	\$29,012,170	100.00%	12,685,842	100.00%	83,097	100%

**City of Akron Water System as of 12/31/06**

A. Water Pressure

Currently 2% of the City of Akron water system has water pressures exceeding 100 psi.

B. Construction of Water Mains - Through 2006

<u>Description</u>	<u>Percent</u>
Concrete & PCCP	2.7
Cast Iron	53.4
Ductile Iron	43.1
Steel	<u>0.8</u>
	100.0%

C. Size of pipe in Akron water system including force mains from Water Plant and also fire hydrant runs.

<u>SIZE OF MAIN</u>	<u>LENGTH (MILES)</u>
4	28.42
6	512.77
8	278.65
10	27.38
12	174.30
16	103.56
20	23.49
24	12.58
30	10.81
36	18.93
42	2.09
48	17.96
54	<u>3.54</u>
Total Miles of Pipe	1,214.48

D. New water mains placed in service - 2006

New Construction	3.03 miles
Water Main Replacement	2.73 miles

**Water Mains Laid in 2006**

<u>Street</u>	<u>Limits</u>
Etter Rd	East of Lincoln
Randolph Rd	Township line to Martin
Martin Rd	Randolph to North End
Great Pl S	Hickory to Memorial Pkwy
Great Pl N	Hickory to Great Pl S
Park Pl	Great Pl N to Great Pl S
Dedicated Utility ROW	Great Pl St to End
Heritage Woods Dr	Ridgecrest to South End
Gardners Run Rd	Heritage Woods Dr to End
Croghan Way	Gardner Run to Easement
Croghan Way Easement	Heritage Woods to Access Rd
Turner Dr	Gardner Run to Croghan Way
Access Rd "A"	Gardner Run to Access Rd "B"
Access Rd "B"	Croghan Way to North End
Access Rd "C"	Croghan Way to South End
Access Rd "D"	Croghan Way to North End
Access Rd "E"	Croghan Way to North End
Access Rd "F"	Croghan Way to South End
Fairlawn Corporate Park	Ridgewood to North End
Wooster Pump Station	Suction Line
Viers Ct	East to Dead End
Waltham Rd	S Miller Rd to Wyant
Wyant Rd	Waltham Rd North to tank
Deepwood Dr	Deepridge to End
Wynstone Dr	Randolph to Ledgewater
Millstone Ln	Stonecreek to Wynstone
Stonecreek Dr	Millstone to Ledgewater
Ledgewater Dr	Stonecreek to Martin
Massillon Rd	North and South of Boyer Pkwy
Avon St	Howard to Burns
N Adams St	E Market to Hazel
Bastogne Dr	Ravineview to Nob Hill
Ghent Rd	Lennox Village to 800' South
Avon St	Burns to Cuyahoga Falls
Canyon Trl	Megglen to Malvern
Gorge Blvd	Tallmadge to Easton
W Market St Utility ROW	
Gorge Blvd	Easton to Cuyahoga Falls
Jonah Dr	Bosworth to Encell
Singleton Dr	@ Encell
Encell Dr	Jonah to Singleton
Lewis St	Lakeshore to West End
Beth St	Lakeshore to West End
Vincent St	Lakeshore to West End
Westwick Way	Hillsdale Dr to North End
Northledge Ct	Westwick to Millstream

<b>Water Comparative Statistics</b>		
<b>ITEM</b>	<b>2006</b>	<b>2005</b>
<b>AVERAGE DAY</b>	34.80 MGD*	37.22 MGD
<b>MAXIMUM DAY</b>	53.50 MGD	52.24 MGD
<b>(DATE)</b>	06/17/06	09/09/05
<b>MINIMUM DAY</b>	21.30 MGD	24.56 MGD
<b>(DATE)</b>	02/04/06	10/02/05

\*MGD – million gallons per day

## AKRON DRINKING WATER OHIO EPA REGULATED ANALYSES - 2006

This chart is available on-line at [www.ci.akron.oh.us/PubUtil/pdf/2006allwatertests.pdf](http://www.ci.akron.oh.us/PubUtil/pdf/2006allwatertests.pdf)

<b>INORGANIC CHEMICALS AT PLANT TAP</b>	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron
	AVERAGE LEVEL MILLIGRAMS PER LITER	MINIMUM LEVEL MILLIGRAMS PER LITER	MAXIMUM LEVEL MILLIGRAMS PER LITER	MAXIMUM LIMIT MILLIGRAMS PER LITER	water meet EPA primary limit?
Antimony	<0.004	<0.004	<0.004	0.006	yes
Arsenic	<0.003	<0.003	<0.003	0.010	yes
Barium	0.0309	0.0309	0.0309	2	yes
Beryllium	<0.0005	<0.0005	<0.0005	0.004	yes
Cadmium	<0.0002	<0.0002	<0.0002	0.005	yes
Chlorine, free residual	2.73	1.59	4.1	0.2 minimum	yes
Chlorine, combined	0.21	0.04	0.56	no EPA limit	not applicable
Chromium	<0.005	<0.005	<0.005	0.1	yes
Copper	0.0113	0.0083	0.0157	1.3	yes
Cyanide	<0.010	<0.010	<0.010	0.2	yes
Fluoride	0.98	0.77	1.27	4.0 primary 2.0 secondary	yes
Lead	see below	see below	see below	0.050	not applicable
Manganese	0.024	0.004	0.085	0.05 secondary	not applicable
Mercury	<0.0002	<0.0002	<0.0002	0.002	yes
Nickel	<0.005	<0.005	<0.005	0.1	yes
Nitrate	0.63	0.50	0.84	10	yes
Selenium	<0.005	<0.005	<0.005	0.05	yes
Thallium	<0.001	<0.001	<0.001	0.002	yes

<b>LEAD &amp; COPPER AT CUSTOMER TAPS</b>	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA MAXIMUM	Did Akron
	90th PERCENTILE LEVEL MILLIGRAMS PER LITER	MINIMUM LEVEL MILLIGRAMS PER LITER	MAXIMUM LEVEL MILLIGRAMS PER LITER	90th PERCENTILE LIMIT MILLIGRAMS PER LITER	water meet EPA limit?
Lead	<.005	<.005	0.0098	0.015	yes
Copper	0.246	0.0099	0.593	1.300	yes

<b>ORGANIC DISINFECTION BYPRODUCTS (DBPs) DISTRIBUTION SYSTEM</b>	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron
	AVERAGE LEVEL MICROGRAMS PER LITER	MINIMUM LEVEL MICROGRAMS PER LITER	MAXIMUM LEVEL MICROGRAMS PER LITER	MAXIMUM LIMIT MICROGRAMS PER LITER	water meet EPA limit?
Trihalomethanes, total, running annual average	48.2	43.7	53.6	80	yes
Trihalomethanes, quarterly average	49.9	18.3	98.0	no EPA limit	not applicable
Haloacetic acids, HAA5, running annual average	34.0	28.1	40.9	60	yes
Haloacetic acids, HAA5, quarterly average	40.9	16.3	65.5	no EPA limit	not applicable

<b>INORGANIC DISINFECTION BYPRODUCTS (DBPs)</b>	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron
	AVERAGE LEVEL MILLIGRAMS PER LITER	MINIMUM LEVEL MILLIGRAMS PER LITER	MAXIMUM LEVEL MILLIGRAMS PER LITER	MAXIMUM LIMIT MILLIGRAMS PER LITER	water meet EPA limit?
Chlorite, at plant tap	0.61	0.00	1.40	no EPA limit	not applicable
Chlorite, average of 3 samples in distribution system	0.526	0.128	0.867	1.0	yes
Chlorate	0.35	0.04	0.97	no EPA limit	not applicable

<b>DISINFECTANT RESIDUALS</b>	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron water meet EPA limit?
	AVERAGE LEVEL	MINIMUM LEVEL	MAXIMUM LEVEL	MAXIMUM LIMIT	
	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	
Free Chlorine, of 2446 distribution samples	1.28	0.00	3.20	no EPA limit	not applicable
Free Chlorine, percent less than 0.2 milligrams per liter for each month, distribution samples	0.4%	0.0%	2.1%	5%	yes
Total Chlorine, running annual average calculated quarterly	1.34	1.32	1.37	4.0	yes
Chlorine Dioxide, at plant tap, daily 1-day reading	0.11	0.02	0.55	no EPA limit	not applicable
Chlorine Dioxide, plant tap, lowest of 2 consecutive days	0.08	0.02	0.31	0.8	yes
Chlorine Dioxide, closest customer, highest of 3 readings, 6 hrs apart, after a daily plant tap over 0.8 mg/L	no test required, because no plant tap readings above 0.8 mg/L	no test required, because no plant tap readings above 0.8 mg/L	no test required, because no plant tap readings above 0.8 mg/L	0.8	yes

<b>MICROBIOLOGY (TOTAL COLIFORM) DISTRIBUTION SYSTEM</b>	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron water meet EPA limit?
	AVERAGE LEVEL	MINIMUM LEVEL	MAXIMUM LEVEL	MAXIMUM LIMIT	
Coliform positives, percent per month	0.04%	0.0%	0.5%	5%	yes
Repeat coliform positives	0	0	0	0	yes

<b>TURBIDITY</b>	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron water meet EPA limit?
	AVERAGE LEVEL	MINIMUM LEVEL	MAXIMUM LEVEL	MAXIMUM LIMIT	
	NEPHELOMETRIC UNITS	NEPHELOMETRIC UNITS	NEPHELOMETRIC UNITS	NEPHELOMETRIC UNITS	
Turbidity	0.068	0.039	0.149	1	yes
Turbidity, percent of tests greater than 0.3 Nephelometric Units for each month	0.00%	0.00%	0.00%	5%	yes

<b>PESTICIDES, SYNTHETIC ORGANIC CHEMICALS (SOCs)</b>	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron water meet EPA limit?
	AVERAGE LEVEL	MINIMUM LEVEL	MAXIMUM LEVEL	MAXIMUM LIMIT	
	MICROGRAMS PER LITER	MICROGRAMS PER LITER	MICROGRAMS PER LITER	MICROGRAMS PER LITER	
Alachlor	<0.2	<0.2	<0.2	2	yes
Atrazine	<0.3	<0.3	0.37	3	yes
Simazine	<0.40	<0.40	<0.40	4	yes

<b>OTHER PARAMETERS</b>	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron water meet EPA limit?
	AVERAGE LEVEL	MINIMUM LEVEL	MAXIMUM LEVEL	GUIDELINE LEVEL	
	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER	MILLIGRAMS PER LITER		
Alkalinity	74	51	99	no EPA limit	not applicable
Hardness in milligrams per liter	109	66	152	no EPA limit	not applicable
Hardness in grains per gallon	6.4 grains/gal.	3.9 grains/gal.	8.9 grains/gal.	no EPA limit	not applicable
Orthophosphate	1.044	0.496 ( 29 of 30, 96.7%, greater than 0.6)	2.070	0.6 or more for 90% of samples	yes
pH	7.32	7.00	8.71	7.0-10.5 for 90% of samples	yes
Temperature, degrees Celsius	13.2	1.6	27.5	no EPA limit	not applicable
Total Organic Carbon	2.76	1.68	4.25	no EPA limit	not applicable

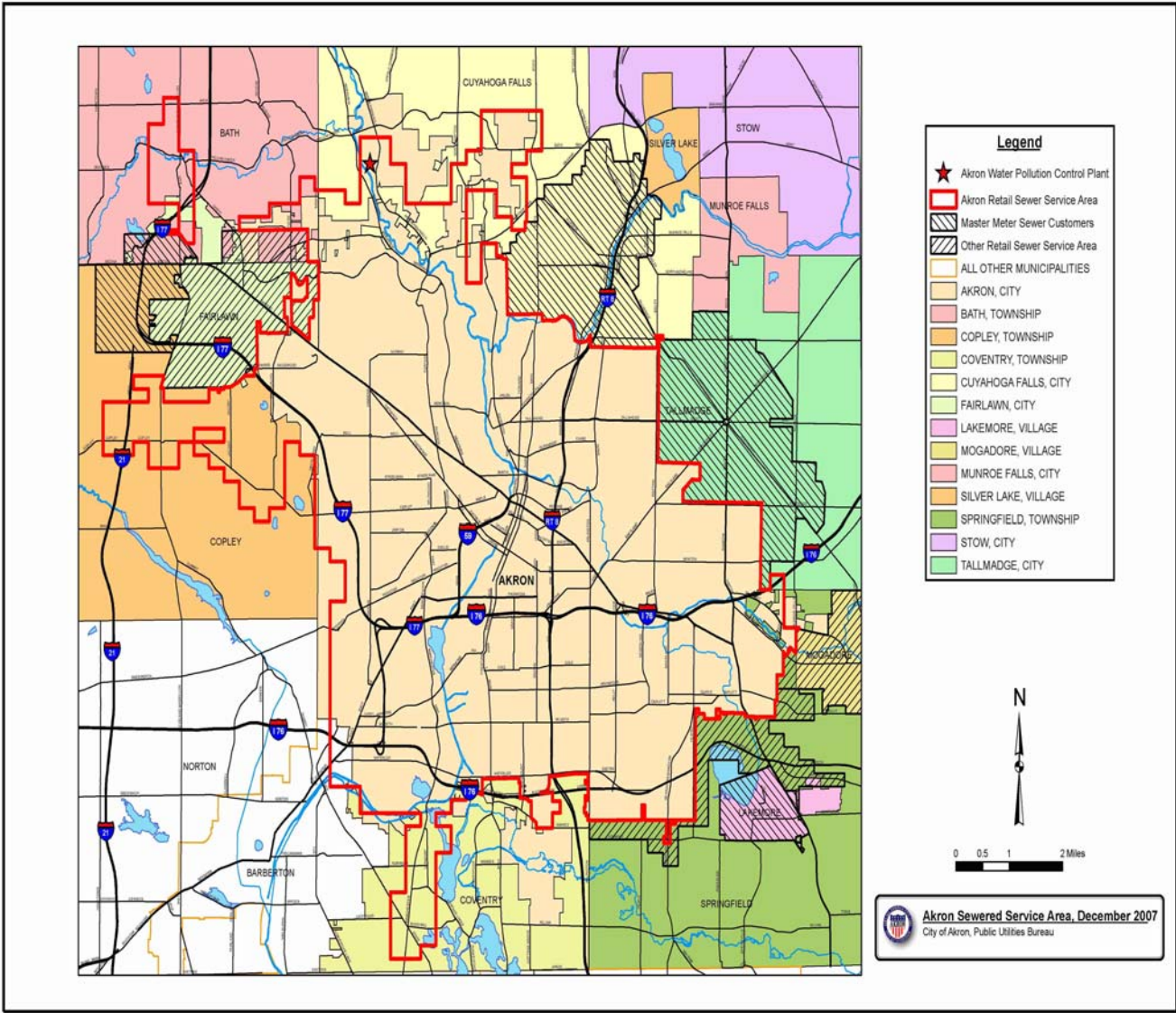
VOLATILE ORGANIC CHEMICALS (VOCs)	AKRON WATER	AKRON WATER	AKRON WATER	OHIO EPA	Did Akron
	AVERAGE LEVEL	MINIMUM LEVEL	MAXIMUM LEVEL	MAXIMUM LIMIT	water meet
	MICROGRAMS PER LITER	MICROGRAMS PER LITER	MICROGRAMS PER LITER	MICROGRAMS PER LITER	EPA limit?
Benzene	<0.5	<0.5	<0.5	5	yes
Bromobenzene	<0.5	<0.5	<0.5	no EPA limit	not applicable
Bromochloromethane	<0.5	<0.5	<0.5	no EPA limit	not applicable
Bromodichloromethane	9.5	9.5	9.5	no EPA limit	not applicable
Bromoform	<0.5	<0.5	<0.5	no EPA limit	not applicable
Bromomethane	<0.5	<0.5	<0.5	no EPA limit	not applicable
n-Butylbenzene	<0.5	<0.5	<0.5	no EPA limit	not applicable
sec-Butylbenzene	<0.5	<0.5	<0.5	no EPA limit	not applicable
tert-Butylbenzene	<0.5	<0.5	<0.5	no EPA limit	not applicable
Carbon Tetrachloride	<0.5	<0.5	<0.5	5	yes
Chlorobenzene	<0.5	<0.5	<0.5	no EPA limit	not applicable
Chloroethane	<0.5	<0.5	<0.5	no EPA limit	not applicable
Chloroform	24.0	24.0	24.0	no EPA limit	not applicable
Chloromethane	<0.5	<0.5	<0.5	no EPA limit	not applicable
2-Chlorotoluene	<0.5	<0.5	<0.5	no EPA limit	not applicable
4-Chlorotoluene	<0.5	<0.5	<0.5	no EPA limit	not applicable
Dibromochloromethane	1.6	1.6	1.6	no EPA limit	not applicable
Dibromomethane	<0.5	<0.5	<0.5	5	yes
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	no EPA limit	not applicable
1,3-Dichlorobenzene	<0.5	<0.5	<0.5	no EPA limit	not applicable
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	no EPA limit	not applicable
Dichlorodifluoromethane	<0.5	<0.5	<0.5	no EPA limit	not applicable
1,1-Dichloroethane	<0.5	<0.5	<0.5	5	yes
1,2-Dichloroethane	<0.5	<0.5	<0.5	no EPA limit	not applicable
1,1-Dichloroethene	<0.5	<0.5	<0.5	no EPA limit	not applicable
cis-1,2-Dichloroethene	<0.5	<0.5	<0.5	no EPA limit	not applicable
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5	no EPA limit	not applicable
Dichloromethane	<0.5	<0.5	<0.5	5	yes
1,2-Dichloropropane	<0.5	<0.5	<0.5	5	yes
1,3-Dichloropropane	<0.5	<0.5	<0.5	no EPA limit	not applicable
2,2-Dichloropropane	<0.5	<0.5	<0.5	no EPA limit	not applicable
1,1-Dichloropropene	<0.5	<0.5	<0.5	no EPA limit	not applicable
1,3-Dichloropropene, Total	<0.5	<0.5	<0.5	no EPA limit	not applicable
Ethylbenzene	<0.5	<0.5	<0.5	700	yes
Hexachlorobutadiene	<0.5	<0.5	<0.5	no EPA limit	not applicable
Isopropylbenzene	<0.5	<0.5	<0.5	no EPA limit	not applicable
4-Isopropyltoluene	<0.5	<0.5	<0.5	no EPA limit	not applicable
Napthalene	<0.5	<0.5	<0.5	no EPA limit	not applicable
n-Propylbenzene	<0.5	<0.5	<0.5	no EPA limit	not applicable
Styrene	<0.5	<0.5	<0.5	100	yes
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	no EPA limit	not applicable
1,1,1,2-Tetrachloroethane	<0.5	<0.5	<0.5	no EPA limit	not applicable
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	no EPA limit	not applicable
Tetrachloroethene	<0.5	<0.5	<0.5	no EPA limit	not applicable
Toluene	<0.5	<0.5	<0.5	1,000	yes
1,2,3-Trichlorobenzene	<0.5	<0.5	<0.5	no EPA limit	not applicable
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	70	yes
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	5	yes
Trichloroethene	<0.5	<0.5	<0.5	no EPA limit	not applicable
Trichlorofluoromethane	<0.5	<0.5	<0.5	no EPA limit	not applicable
1,2,3-Trichloropropane	<0.5	<0.5	<0.5	no EPA limit	not applicable
1,2,4-Trimethylbenzene	<0.5	<0.5	<0.5	no EPA limit	not applicable
1,3,5-Trimethylbenzene	<0.5	<0.5	<0.5	no EPA limit	not applicable
Vinyl Chloride	<0.5	<0.5	<0.5	2	yes
Xylenes (total)	<0.5	<0.5	<0.5	10	yes

DEFINITIONS:

"Plant tap" is the sampling point at the water treatment plant after the last treatment process.

A "primary EPA limit" is the maximum level above which adverse health effects may occur.

A "secondary EPA limit" is the maximum limit above which adverse aesthetic (staining, color, odor, taste), non-health related effects may occur.



## Sewer – Billings and Number of Accounts

In 2006, the aggregate dollar value of sewer billings to accounts in the City of Akron constituted 75% of total billings in our service area while billings to other retail service areas and our master meter communities constituted 9% and 16% respectively. The aggregate number of sewer accounts in the City of Akron constituted 92% of total accounts in our service area while aggregate accounts in other retail service areas constituted 8%.

<b>Sewer – Billings and Number of Accounts</b>				
Service Area	Sewer Billings	Percentage of Total Billings	Total Accounts	Percentage of Accounts
Akron	\$26,382,385	74.77%	73,162	91.51%
<b>Retail Service Areas</b>				
Fairlawn	\$1,007,786	2.86%	2,548	3.19%
Springfield Township	583,003	1.65%	1,272	1.59%
Mogadore	555,107	1.57%	1,460	1.83%
Summit County-Mud Brook	469,954	1.33%	516	0.65%
Bath Township	155,525	0.44%	423	0.53%
Copley Township	132,157	0.37%	288	0.36%
Cuyahoga Falls	65,214	0.18%	104	0.13%
Coventry Township	62,670	0.18%	92	0.11%
Tallmadge	51,747	0.15%	12	0.02%
Lakemore	39,030	0.11%	54	0.07%
Summit County-Montrose	5,894	0.02%	16	0.02%
Barberton	2,634	0.01%	1	0.00%
Kent	304	0.00%	1	0.00%
Subtotal	\$3,131,025	8.87%	6,788	8.49%
<b>Master Meter Areas</b>				
Summit County-Mud Brook	\$2,454,701	6.96%	N/A	0.00
Cuyahoga Falls	1,723,066	4.88%	N/A	0.00
Tallmadge	663,046	1.88%	N/A	0.00
Summit County-Montrose	592,117	1.68%	N/A	0.00
Lakemore	337,079	0.96%	N/A	0.00
Subtotal	\$5,770,009	16.35%	N/A	0.00
<b>Grand Total</b>	<b>\$35,283,419</b>	<b>100.00%</b>	<b>79,950</b>	<b>100.00%</b>

City of Akron				
Water Pollution Control Station				
2006 OPERATION DATA SUMMARY				
MIN. flow rate, Wastewater Treated, MGD	27			
MAX. flow rate, Wastewater Treated, MGD	268			
AVG. flow, Wastewater Treated, MGD	75.44			
Total Wastewater Treated, MG	27,547			
Total Raw Wastewater Bypassed, MG	0			
Total Secondary Wastewater Bypassed, MG	679.2			
Total Sludge to Compost, MG	62.5			
Total Influent Screenings Removed, Cubic Yards	803			
Total Influent Grit Removed, Cubic Yards	887			
Precipitation Inches (AWPCS)	42.7			
	<b>RAW</b> mg/L	<b>EFFLUENT</b> mg/L	<b>REMOVED</b> %	<b>30-DAY</b> <b>LIMITS mg/L</b>
SUSPENDED SOLIDS	193	6.1	96.8	15
CBOD	86	<2.1	>97.5	10
PHOSPHORUS	3.03	0.74	75.5	1
AMMONIA NITROGEN	10.38	0.22	97.9	Jun-Sep 1.5 Mar-May 4.8 Oct-Nov 4.8 Dec-Feb 7.5
CADMIUM	<0.55	<0.19	>65	2
COPPER	47.9	5.61	88.28	28
LEAD	<58.8	<1.70	97.1	22.4
NICKEL	<69.0	<63.9	>7.39	344
ZINC	196	56	71.4	231
MERCURY	<0.20	<0.20	-	0.02
	<b>MIN</b>	<b>MAX</b>	<b>AVERAGE</b>	
DISSOLVED OXYGEN	5.5	-	8.3	5.0
pH	6.7	7.2	-	6.5 to 9.0 (S.U.)
Total Blended Sludge Produced, Th. Dry Tons +	13.31			
Total Daily Avg. Sludge Produced, Dry Tons +	36.47			
% Primary Sludge in Total Blend	58.5			
% Secondary Sludge in Total Blend	41.5			
Compost Product Shipped, Th. Cubic Yards	94.5			
TOTAL COST OF TREATMENT	<b>\$11,467,998.02</b>			
TOTAL COST OF TREATMENT PER MILLION GALLONS	<b>\$416.30</b>			

## Curbservice

The Akron Public Utilities Bureau also bills for curbservice and recycling collection. The Sanitation Division of the Public Works Bureau provides this service to accounts with one, two and three family freestanding residential units. Below is a summary of service area billing and account information.

Curbservice – Billings and Number of Accounts				
Service Area	Curbservice Billing	Percentage of Total Billings	Total Accounts	Percentage of Accounts
Akron	\$13,285,594	99.66%	63,095	99.67%
Summit County - Mud Brook	44,455	0.33%	205	0.32%
Fairlawn	210	0.00%	1	0.00%
<b>Total</b>	<b>\$13,330,259</b>	<b>100.00%</b>	<b>63,300</b>	<b>100.00%</b>