

17-009

MASTER METER AGREEMENT



This Master Meter Agreement (the "Agreement") is entered into as of _____, 2016 between the City of Akron, Ohio, a charter municipal corporation (the "City"), 166 South High Street, Akron, Ohio 44308, and County of Summit (the Master Meter Community, referred to as "MMC" below), 1180 South Main Street, Akron, Ohio 44301.

A. The MMC requests that the City continue to furnish sewer service to the geographical area set forth on a map attached as Exhibit A, which may be amended by written agreement of the parties (the "MMC Service Area").

B. The MMC recognizes that the City has a National Pollutant Discharge Elimination System Permit issued by the Ohio Environmental Protection Agency ("Ohio EPA") (the "Permit"), which may be modified or renewed from time to time, that places obligations on the City for the quantity and quality of the effluent discharged, directly and indirectly to the Cuyahoga River.

C. The MMC further recognizes that the Permit requires that the MMC and any discharger (each, a "Discharger") to the MMC's sewer system located in the MMC Service Area (the "MMC Sewer System") specifically agree to, at all times, discharge a quantity and quality of sewage so that complies with the quality and quantity set in this Agreement or any of its amendments so that the City can lawfully comply with the Permit requirements.

D. The MMC further recognizes that the City must have the legal authority throughout the MMC Service Area to perform, or require the performance of, all acts required by the Permit.

E. The City is subject to a Consent Decree that was entered into in the United States District Court for the Northern District of Ohio on January 17, 2014 (the "Consent Decree"), which requires the City to comply with certain operation and maintenance requirements and to implement substantial improvements to its sewerage system (the "Akron Sewer System") and the City's Water Reclamation Facility ("WRF"), which includes, but is not limited to, the improvements set forth in the City's Long Term Control Plan (the "LTCP").

F. The City is willing to provide the sewer transportation and treatment services requested by the MMC upon the terms and conditions of this Agreement, which includes, but is not limited to the condition that the MMC and any Discharger of the MMC Sewer System agree to, at all times, deliver a quantity and quality of sewage that permits the City to lawfully comply with the Permit requirements.

In consideration of the mutual promises, covenants, conditions, and terms to be kept and performed, the parties agree as follows:

Section 1. Definitions

Unless the context specifically indicates otherwise, words, terms, and abbreviations defined in Chapter 50 of the Codified Ordinances of the City of Akron, Ohio ("Chapter 50"), used in this Agreement, including the exhibits hereto, shall have the meanings set forth in that Chapter.

Section 2. Treatment of Wastewater

Subject to the terms and conditions contained in this Agreement the City shall operate and maintain the Akron Sewer System and the WRF in accordance with the Permit and the Consent Decree. The City shall receive wastewater discharged from the MMC Sewer System that meets the requirements of this Agreement, and treat such wastewater to the degree of treatment required by the Permit.

Section 3. Delivery of Wastewater

The MMC agrees to operate and maintain the MMC Sewerage System in accordance with all requirements of the Ohio EPA and the United States Environmental Protection Agency ("U.S. EPA") that are applicable to the MMC, and the Codified Ordinances of the City of Akron, Ohio, as amended, and shall deliver only wastewater to the City's sewerage system that meets the water quality requirements of:

- (a) Chapter 50; and
- (b) this Agreement.

Section 4. Charges

(a) The monthly bill to the MMC will be calculated by multiplying the MMC's total metered flow by the rate charged to the MMC (the "MMC Rate"), and then adjusting that amount based upon the strength of the MMC's metered flow. The monthly bill to the MMC may also include a billing fee and any other charges identified in this Agreement. The MMC's total flow is the sum of the MMC's metered flow and any adjustments to flow measurements. The MMC share of inflow and infiltration (I & I) in the trunk sewers of the Akron Sewer system is included in the calculation of the rate charged to the MMC. Attached to this Agreement as Exhibit B is the calculation that is used to determine the MMC's monthly bill for services. If there are any discrepancies between Section 4(a) and Exhibit B, Exhibit B shall control.

(b) The MMC Rate is calculated using the MMC Rate Model, which is attached to this Agreement as Exhibit C. All WRF and trunk sewer operation and maintenance, capital improvement (as delineated in the MMC Rate Model) and debt service costs, including, but not limited to the costs to comply with the Permit and the Consent Decree, will be allocated

to function and usage characteristics in accordance with the format identified in the MMC Rate Model. The calculated rates will not include stipulated penalties that the City may incur pursuant to provisions of its CSO Consent Decree.

The City will calculate the MMC Rates using the MMC Rate Model for a four (4) year period using budgeted costs for the current year and estimated costs for the subsequent three (3) years. MMC annual flows, loadings, and share of I&I flows will be averaged for the previous four (4) years and applied in the MMC Rate Model to determine MMC shares of annual costs.

In addition, the City may make adjustments to the MMC Rate Model as required by the Permit and/or any applicable Ohio or federal laws or regulations; provided, however, that the City shall discuss any such adjustments to the Rate Model in advance with the MMC. Adjustments during each four (4) year period will be the basis for the rates during the remaining years in the rate period. If another Master Meter Community of City obtains a more favorable MMC Rate than the MMC Rate contained in this Agreement, the MMC Rate shall be reduced to an amount equal to the lowest MMC Rate obtained by any Master Meter Community of City subsequent to the execution of this Agreement.

Additionally, the MMC will be responsible for [one-half] the 2014 "true-up" which have been billed in 2015 and are payable by April 30, 2016. The MMC is also responsible for [one-half] the 2015 "true-up" costs, which are actual costs compared to revenues collected, that will be incorporated into the 2016 rates.

By March 15 of the final year of the four (4) year rate period, the City shall notify the MMC of the MMC Rate that will be in effect for each twelve (12) month period commencing on April 1 and running through March 31. At the same time the City will also provide a summary of the calculations for determining the MMC Rates. For the period of April 1, 2016 through March 31, 2017, new MMC rates based on the updated methodology included in this Agreement will be effective and will include the 2015 "true-up" for each MMC.

(c) The City shall bill the MMC monthly. The MMC shall pay its bill within 30 days from the date of mailing. Payments not made within 30 days from date of mailing shall be considered delinquent (even if the MMC is challenging the calculation under Section 4(h)) and the amount due the City shall be subject to a late payment fee equal to a 10 percent per annum late payment penalty on the unpaid current balance.

(d) The MMC shall be solely responsible for billing its own customers and shall do so in accordance with all applicable laws.

(e) Each party shall have the right at all reasonable times to inspect and audit the books and records of the other party concerning the MMC Rate Model, the monthly bills issued from

the City to the MMC, the MMC's system for charging its customers and the terms and conditions of this Agreement.

(f) The City, upon request will provide billing administration and other services to the MMC in return for an additional payment in an amount to be agreed upon before the services are performed. The MMC will provide the City with its schedule of charges and meter readings, if requested.

(g) The City may charge for miscellaneous and other charges, excluding stipulated penalties that the City may incur pursuant to provisions of its CSO Consent Decree, to the MMC unilaterally where required by U.S. EPA, Ohio EPA or a Court. The City will document those charges upon request by the MMC. The City agrees that any such charges will require notification to the MMC.

(h) The parties agree that either party has a maximum of 90 days after the billing date of a bill to either correct errors or claim any error as to any computations or application of agreement factors or formulas, flow readings or other data relative thereto for that previous year.

(i) The MMC shall have an opportunity to review any list of future projects that are not included in the formulary and for which the City intends to charge the MMC. The parties agree that if the MMC dispute any additional charges resulting from these future projects, and if the dispute cannot be settled through negotiation, the parties agree first to try in good faith to settle the dispute by mediation administered by the American Arbitration Association under its Commercial Mediation Procedures before resorting to litigation, or some other dispute resolution procedure.

Section 5. INDUSTRIAL COST RECOVERY SYSTEM

If required by Ohio EPA, U.S. EPA, or the Permit, the City and the MMC shall develop and implement an Industrial Cost Recovery System for the MMC Service Area and the City's service area that meets all of the requirements of Ohio EPA, U.S. EPA, and/or the Permit, in accordance with Federal Regulation 40 CFR 35.928. The purpose of the Industrial Cost Recovery System is to recover from industrial users all federal funds that are used to construct sewage treatment facilities that serve the industrial user class.

Section 6. NPDES PERMIT

(a) The MMC shall comply with all applicable requirements of the Permit and other permits of whatever nature that the City may obtain in the future regulating the discharge of wastewater, the Akron Sewer System and/or the WRF. The MMC shall be liable for, and shall reimburse the City for any fine, penalties, costs and/or damages incurred by the City for the MMC failure to comply with the Permit. The City will provide the MMC timely notice of said

fine, penalties, costs and/or damage, and the opportunity to respond to such a claim with the applicable authority assuming the same is provided to the City.

(b) If any changes to the Permit, either requested by the City or imposed by a regulating authority, have the potential to impact a MMC, the City will notify the MMC when they become aware and discuss with the MMC the impact of the changes to the MMC.

Section 7. WASTEWATER MONITORING AND SAMPLING

(a) The MMC has constructed, in accordance with the City's specifications, wastewater metering stations, sampling stations, and appurtenances (the "Meter"). The City shall have the right to inspect the Meter and require such changes as are necessary to meet the City's specifications. The Meter shall be equipped with devices to collect and preserve composite wastewater samples and accurately measure the volume of flow through the connection.

(b) The Meter shall be operated and maintained by the City and under its control. Provided however, the MMC shall be responsible for the operation and maintenance of the conveyance components to and through the Meter structure, which includes but not limited to the flume, weir, pipe, and flow channel. The City may, however, permit the MMC to operate, maintain and control any additional installations, as long as such additional installations do not interfere with the operation of the Meter. The City shall periodically, but in no event less than annually, employ the services of qualified personnel to calibrate the Meter. Both parties shall have the right to analyze a portion of any sample collected and to conduct sampling and gauging programs using the stations either under the supervision of the City or the MMC. The MMC will receive reasonable notification of the date and time of the testing and will be allowed to be present as an observer.

(c) Should the Meter fail to properly measure the volume or strength of wastewater, the volume and strength for such period of failure shall be computed either by multiplying the hours of such failure times the hourly average for the 24 hours immediately preceding and the 24 hours immediately following such failure or by any other method or period of time as agreed to by the parties to more accurately reflect the volume and strength for such period of failure.

(d) The MMC shall pay for the expense of repairing, reconstructing, rebuilding, replacing, operating, maintaining and calibrating the Meter and any appurtenances that serve it.

(e) For the portions of flow from the MMC that is within the MMC Service Area that connects directly to Akron's sewer system (i.e. "non-metered flow"), the MMC will pay a flat rate based on the total number of benefits connected to the meter. The flat rate will be determined by total number of flat rate customers, times 400 gallons per day, times 30 days.

For the portions of flow from Akron through the MMC Service Area that connects directly to Akron's sewer system, Akron will deduct the MMC total flow based on the total number of benefits connected to the meter. The flat rate will be determined by total number of flat rate customers, times 400 gallons per day, times 30 days.

For the purposes of this Section 7(e) "benefit" means a sewage or wastewater discharge of 400 gallons per day which is the estimated flow from a single-family dwelling.

Section 8. INDUSTRIAL WASTEWATER DISCHARGES

(a) The MMC shall either (i) enact and enforce an industrial wastewater ordinance or resolution that establishes standards for permissible industrial wastewater discharge into the MMC sewerage system that shall be at least as stringent as the standards established in Chapter 50, as may be amended from time to time in the future, or (ii) enter into a separate agreement with the City for the inspection and enforcement of industrial dischargers in the MMC Service Area.

The MMC agrees to either:

- (1) Monitor and furnish the City all data from industrial users, or
 - (2) secure for the City the complete right of access to all industrial facilities of any industrial user that uses MMC'S sewerage system, in order to determine the volume of wastewater and strength of pollutant load contributed by such industrial user where necessary for City to meet the requirements of the Permit or other requirements. The MMC will receive reasonable notification of the inspection and will be allowed to be present as an observer.
- (b) The MMC shall require each industry that discharges into the MMC Sewer System to agree in writing to comply with, and be subject to industrial wastewater effluent limits at least as stringent as the City's Chapter 50, as amended from time to time. The Industrial User shall apply to the permitting authority for a permit, and shall comply with all requirements of the Permit.
- (c) The volume of wastewater and strength of pollutant of an Industrial User is subject to the City's approval in accordance with Chapter 50. The cost of constructing, operating, and maintaining any monitoring equipment required shall be paid by the Industrial User or users that it serves.
- (d) The failure or refusal of the MMC or the MMC's Industrial User to participate in, or comply with this Section 8 may result in termination of sewer service through any means available to the City, including, but not limited to, a request to Ohio EPA and/or U.S. EPA for

enforcement assistance. Termination may result only after the MMC is notified by the City of breach of this subsection of the Agreement and is given 90 days to cure the breach.

Section 9. WASTEWATER DISCHARGES

(a) The MMC shall not, without approval from the City, discharge into the City sewerage system volumes of wastewater greater than the flow rates listed below:

	VOLUME IN MILLION GALLONS PER DAY
Average Annual Flow	11.0
Maximum Daily Flow	16.5
Maximum Hourly Flow	33.0

(b) If the MMC exceeds the maximum volumes set forth in Section 9(a), above, then the MMC shall be liable to the City for any fees, penalties, fines or other damages incurred by the City, including but not limited to damages to the City's Sewer System and/or the WRF for the excess flows from the MMC. At the City's request, the MMC shall undertake a sewer system evaluation study ("SSES") to evaluate the source of, and potential control of, excess I&I into the MMC Sewer System that is being discharged into the City's Sewer System. If the MMC fails or refuses to undertake the SSES, or undertake reasonable, cost effective measures to control excess I&I, then the City may, at its sole discretion, do any of the following: (i) terminate this Agreement and the MMC's authorization to discharge into the City's Sewer System; (ii) self-perform or require the performance of work, which work shall be paid for by the MMC, in the MMC to reduce the levels below the maximum allowed, and/or (iii) increase the Rate by 10% for the volume of wastewater that exceeds the limit in Section 9(a).

(c) The MMC and the City may periodically analyze the need for additional sewerage system capacities. If the MMC requests additional capacity in the Akron Sewer System, the City, in its sole discretion, may provide the MMC with additional capacity, subject to acceptable terms and conditions regarding the financing and payment of additional infrastructure, including those elements of the Long Term Control Plan that will benefit the MMC for the transportation, storage, or treatment of the MMC's wastewater.

(d) The MMC shall deliver its allowable wastewater at points of entry to the City sewerage system approved by the City.

Section 10. CONTRACT WITH ULTIMATE RECIPIENT OF SEWER SERVICE

In order to perform or require the performance of any or all of the duties and responsibilities set forth in this Agreement, when required by the Ohio EPA, U.S. EPA or the Permit, the City

may require that Users execute a contract incorporating the terms of this Agreement and Chapter 50, which may require an amendment to the this Agreement. Sewer rules and regulations promulgated by the MMC shall not conflict with this Agreement or Chapter 50. The failure or refusal of recipient User to execute a contract of sewer service shall subject the MMC or that User to enforcement through those means available to the City including, but not limited to, a request to Ohio EPA and/or U.S. EPA for enforcement assistance.

Section 11. CITY TO PERFORM FUNCTIONS OF A CLEAN WATER SECTION 208 MANAGEMENT AGENCY.

The City has undertaken the duties and responsibilities of a Designated Management Agency pursuant to Section 208 of the federal Clean Water Act. The MMC agrees to support such designation by executing any documents introducing and actively supporting any ordinances or resolutions, and agreeing to amend this Agreement as may be necessary to permit the City to, at all times, continue to function as a Designated Management Agency and meet the legal requirements of U.S. EPA, Ohio EPA, Northeast Ohio Four County Regional Planning and Development Organization or successor Ohio law.

The MMC agrees that the City of Akron is the Designated Management Agency for Service Area pursuant to Section 208 of the federal Clean Water Act.

If MMC fails or refuses to comply with this Section 11, the MMC shall be in breach of this Agreement, and the City may, in its sole discretion, pursue any remedies that the City determines to be appropriate, including, but not limited to damages and/or an order requiring the MMC's compliance with this Agreement. In addition, the City may terminate this Agreement and the sewer service to the MMC only after the MMC is notified by the City of breach of this subsection of the Agreement and is given 90 days to cure the breach.

Section 12. ALL FACILITIES SUBJECT TO CITY OF AKRON APPROVAL OR DISAPPROVAL; AND OTHER CITY STANDARDS REQUIREMENTS

The parties hereto agree:

(a) To cooperate to enforce the specific terms of this Agreement as well as the intent and requirements of the Permit, the Consent Decree, the federal Clean Water Act, Chapter 6111 of the Ohio Revised Code, and all other laws relating to control or pollutants, and any and all of any amendments relating thereto, and regulations promulgated thereunder.

(b) That the operation, maintenance, control, construction, replacement, connection, extension, addition, and any use by anyone by whatever means, of any and all facilities, whether public or private, related directly or indirectly to the MMC Sewer System, the Service Area, the Akron Sewer System and this Agreement are subject to MMC approval or disapproval to an extent no less than required for the City to perform under this Agreement.

The MMC agrees to provide preliminary construction plans and as-built drawings within 3 months after completion of construction of system improvements. City approval of construction plans is not required. MMC agrees that City may require the performance of any act by its and any other governmental subdivision in the Facilities Planning Area in order to carry out the intent of the federal Clean Water Act, and the MMC waives any defenses or claim of defense, notwithstanding the foregoing, where such defenses or claim of defense are contrary to or inconsistent with the intent of this Agreement. The City has no duties and responsibilities unless required by this Agreement, the Consent Decree, Ohio EPA, U.S. EPA, the Permit, or other permits.

(c) That the MMC shall, prior to providing sewer or other service to any area not currently served by the sewerage system served by City, furnish to the City an analysis and sewer system capacity impact study that shall be subject to approval or disapproval by the City (Sewer Bureau Manager), when required, as to compliance with this Agreement and includes: (1) ultimate average daily flow, peak daily flow and peak hourly flow (2) points of connection to the City sewer system, (3) methods of controlling point sources, and (4) such additional information as the City may deem necessary.

(d) That the City may temporarily, or for such period of time which is necessary, restrict, reroute, divert, or shut off sewer or other service under this Agreement (1) to attempt to preserve the WRF or any other facilities or in the event of any other emergency; (2) as may be required by the U.S. EPA or other Agency of Jurisdiction; (3) to repair, construct, maintain, operate, extend, enlarge, replace, improve quality, regulate flows of acceptable wastes to or from facilities, or (4) to otherwise carry out either the specific terms of this Agreement or the intent and requirements of U.S. Public Law 92-500, U.S. Public Law 95-217, all other laws relating to control of pollutants and any and all of any amendments relating thereto, together with Ohio EPA and Ohio law.

(e) That any diversion of flows within the MMC service area is the responsibility of the parties having jurisdiction over the areas involved.

(f) That the breach of, failure or refusal by the MMC or any User hereto to perform under the terms of this Agreement shall subject the MMC to termination of sewer or other service through any means available to the City, including but not limited to the restrictions contained herein and also including a request by City to Ohio EPA and/or U.S. EPA for enforcement assistance. The City shall permit the MMC reasonable time to comply, if permitted by Ohio EPA, U.S. EPA and any Court of competent jurisdiction.

(g) That the City is the owner of the WRF and various facilities and either the MMC or the City owns the sewer facilities shown on Exhibit A and that, at no time during this Agreement, shall such ownership change or an equity interest be acquired without

legislative authorization by the respective owner. The ownership of such facilities may be revised from time to time by authorization of appropriate Council Ordinances.

Section 13. TERM

(a) The term of this Agreement shall be until January 1, 2040, provided, however, that the City may terminate at any time as to the MMC or User that violates any of the provisions of this Agreement. This Agreement will continue following the initial term unless a party provides a written notice of termination. Any notice of termination by the MMC will not be effective for five years. Nothing in this Section 13(a) shall be deemed to limit any early termination provisions included in this Agreement. Prior to termination, the parties agree that the Service Directors (Or authorized Representative) of the respective organization should enter into non-binding negotiations in good faith to resolve any outstanding issues. If negotiations are not successful, The City may not terminate this Agreement for breach of any of its provisions without first giving the MMC notice of breach of the Agreement in writing and 90 days to cure such breach. The parties further agree to negotiate in good faith to resolve any controversy arising from this Agreement.

The parties recognize and understand that under this Agreement the City will be installing significant improvement to the Akron Sewer System and the WRF, that such improvements will be sized, in part, to handle flow from the MMC, and that the City is relying upon continued service to the MMC, beyond the term of this Agreement. If the MMC refuses to agree to extend the term of this Agreement, or refuses to enter into a new Agreement for continued service, then the MMC shall be liable to the City for the MMC's share of the remaining debt on the improvements that are made to the Akron Sewer System during the term of this Agreement.

(b) Should the Ohio EPA or U.S. EPA or any similar agency having jurisdiction over City's Sewage System and/or the WRF require changes in this Agreement or in the sewage system and/or the WRF, such changes shall be made if such agency is authorized to do so under Ohio or federal law.

Section 14. FACILITIES PLANNING

The parties agree, upon the effective date of this Agreement, to perform all duties and responsibilities that may be performed and subsequently to approve and to implement the Consent Decree as the same shall be amended from time to time and to use their best efforts to continue any planning required by the Ohio EPA and/or the U.S. EPA.

Section 15. ALL POINT SOURCE DISCHARGES

The MMC specifically agrees to be responsible for the control of all point source discharges within the Service Area of this Agreement to the extent necessary to meet the continuing

requirements of this Agreement, the Consent Decree, the Ohio EPA, U.S. EPA, or of the Permit, or other permits held by the City subject to control and direction by City as a Designated Management Agency for point sources and nonpoint sources where required.

Section 16. ASSIGNMENT

Neither the City nor the MMC shall assign its rights or duties under this Agreement without the written consent of City or the other party. The foregoing sentence does not prohibit the assignment of this Agreement to a purchaser of the Akron Sewer System.

Section 17. RELEASE

(a) The MMC shall release the City from any and all loss, damage, or claim arising from any action or inaction of the MMC or User that results in a violation of the Permit, any statute or any applicable rule or regulation, whether or not such action or inaction was permitted or prohibited by the terms of this Agreement. Loss, damage, or claim shall include but not necessarily be limited to the repayment of any Grant monies, the failure to receive any grant monies, and the payment of any fines, assessments, or judgments. The MMC and any User shall not appeal any aspects involving criminal liability or injunctive type actions including but not limited to a building ban. To the extent City has actual knowledge, City shall use its best efforts to provide written notice as soon as possible of such violation to MMC.

(b) The MMC shall release the City from any claim, costs, loss, damage, and/or obligation whatsoever arising from any and all causes connected with the construction, operation, maintenance, and control of the User's sewer.

Section 18: MISCELLANEOUS

(a) The effective date of this Agreement shall be the date this Agreement has been fully executed by the parties.

(b) All prior agreements for sewer service between or among the parties shall be terminated and of no further force or effect.

(c) This Agreement may be signed in any number of counterparts, the total of which shall constitute one and the same Agreement.

IN WITNESS WHEREOF, the parties have signed this Agreement as of the Effective Date.

CITY OF AKRON, OHIO

By _____
**John O. Moore, Director of
Public Service**

Approved as to form and correctness:

**Eve V. Belfance
Director of Law
City of Akron, Ohio**

COUNTY OF SUMMIT, OHIO

By _____
**Ilene Shapiro
Summit County Executive**

Approved as to form and correctness:

**Deborah S. Matz
Director of Law, Insurance and Risk Management**

EXHIBIT A

Service Areas

Montrose Master Meter District

Mudbrook Master Meter District

Springfield Master Meter District

EXHIBIT B
MMC MONTHLY BILL CALCULATION

1. Total Metered Flow to Akron in millions of gallons (MG) x Rate per MG = Total Flow Charges.

2. Less/Plus Extra Strength Charges for BOD
 - a. MG of flow x 8.34 x average sampled BOD concentration in milligrams per liter (mg/L) = pounds (lbs) of BOD
 - b. LESS MG of flow x 8.34 x 182 mg/L = allowable lbs of BOD
 - c. Lbs of BOD x rate per lb of BOD = credit or surcharge for BOD

3. Less/Plus Extra Strength Charges for SS
 - a. MG of flow x 8.34 x average sampled SS concentration in milligrams per liter (mg/L) = pounds (lbs) of SS
 - b. LESS MG of flow x 8.34 x 290 mg/L = allowable lbs of SS
 - c. Lbs of SS x rate per lb of SS = credit or surcharge for SS

4. Plus Billing Charge

5. Plus Automatic Clearing House ("ACH") Charge

6. Plus all Miscellaneous Charges, including, but not limited to meter calibration charges.

7. Equals Net Current Billing

EXHIBIT C
MMC RATE MODEL

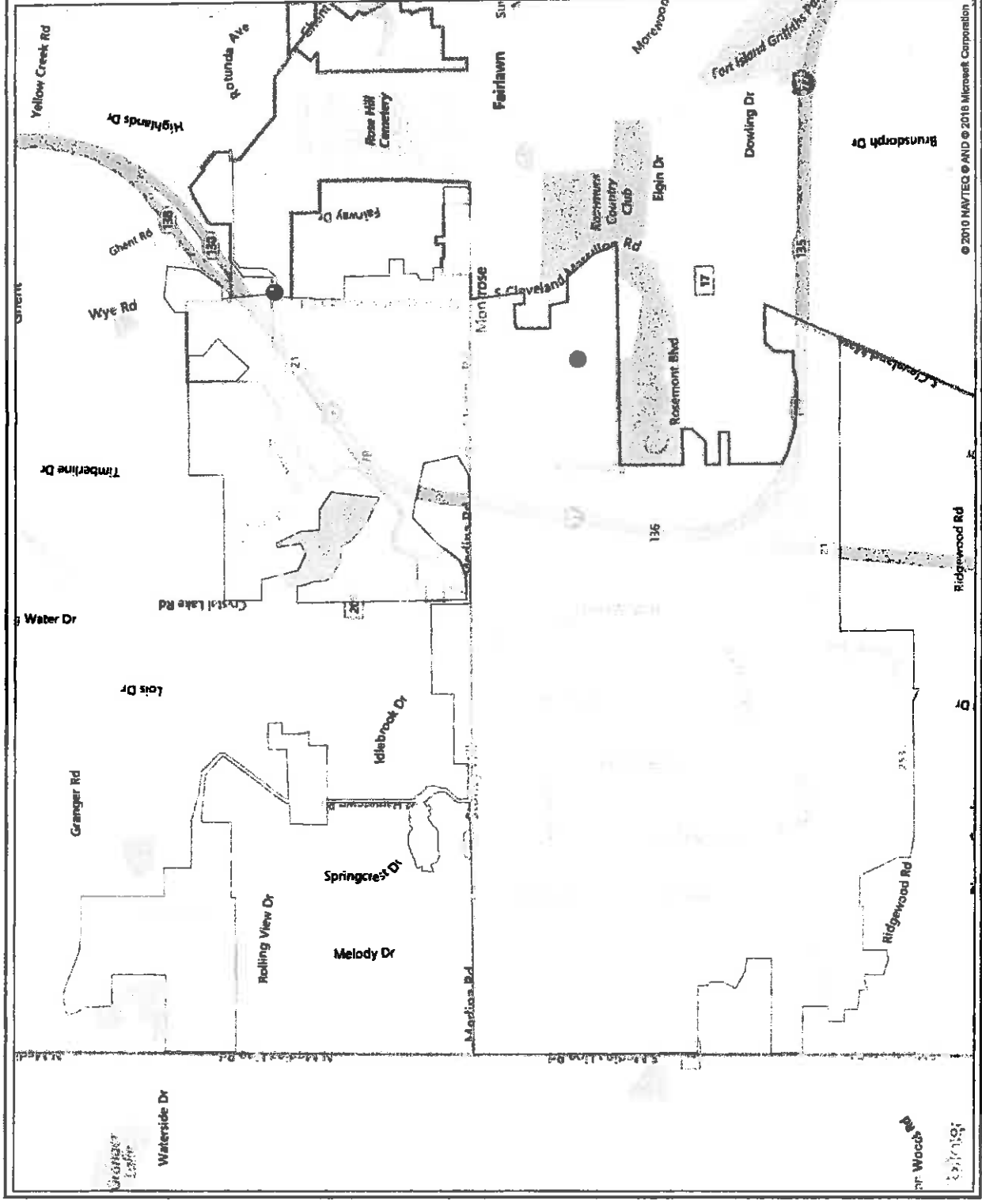
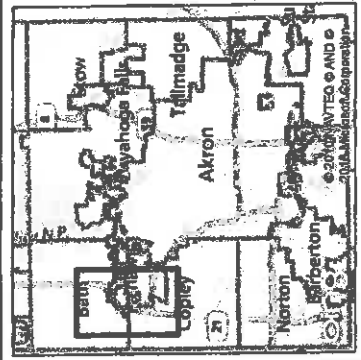


Date: 5/6/2016

Map displays an approximation
representation of the service area.

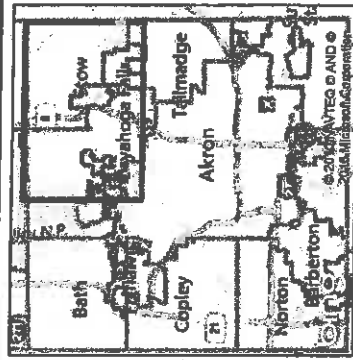


- Legend**
- Yellow Creek Meter Station
 - Lennox Village Meter Station



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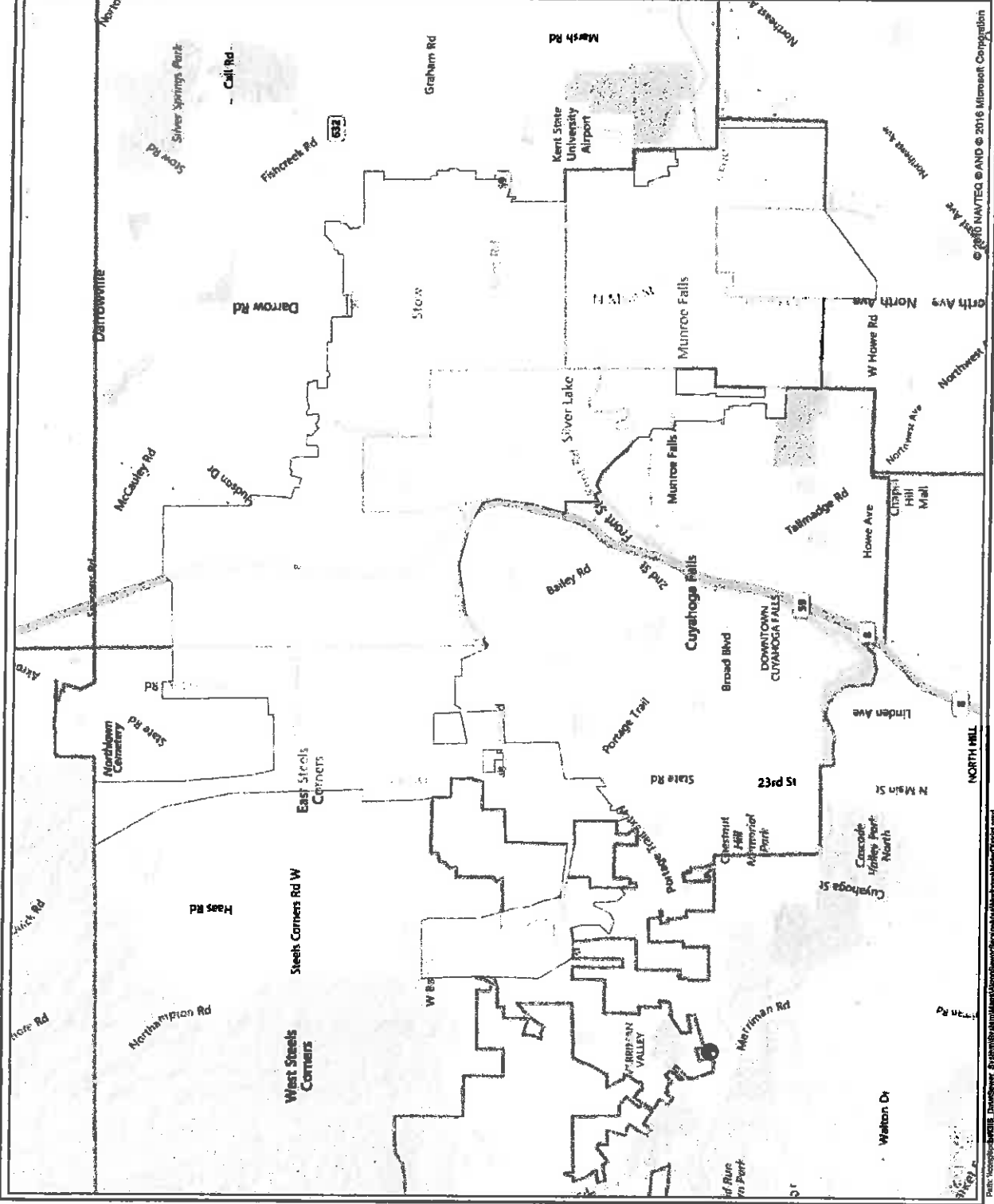
Legend
 ● Mudbrook Meter Station



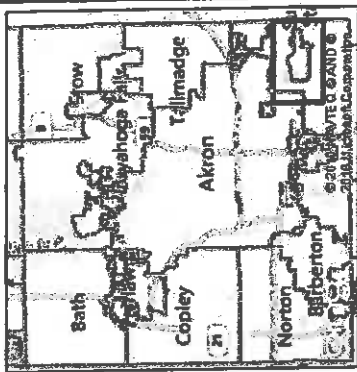
Map displays an approximate representation of the service area.



Date: 4/29/2016



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Legend

- Akron JEDD
- Springfield Meter Station
- Summit County Sewers
- County Customers
- Springfield Master Meter
- Unmetered

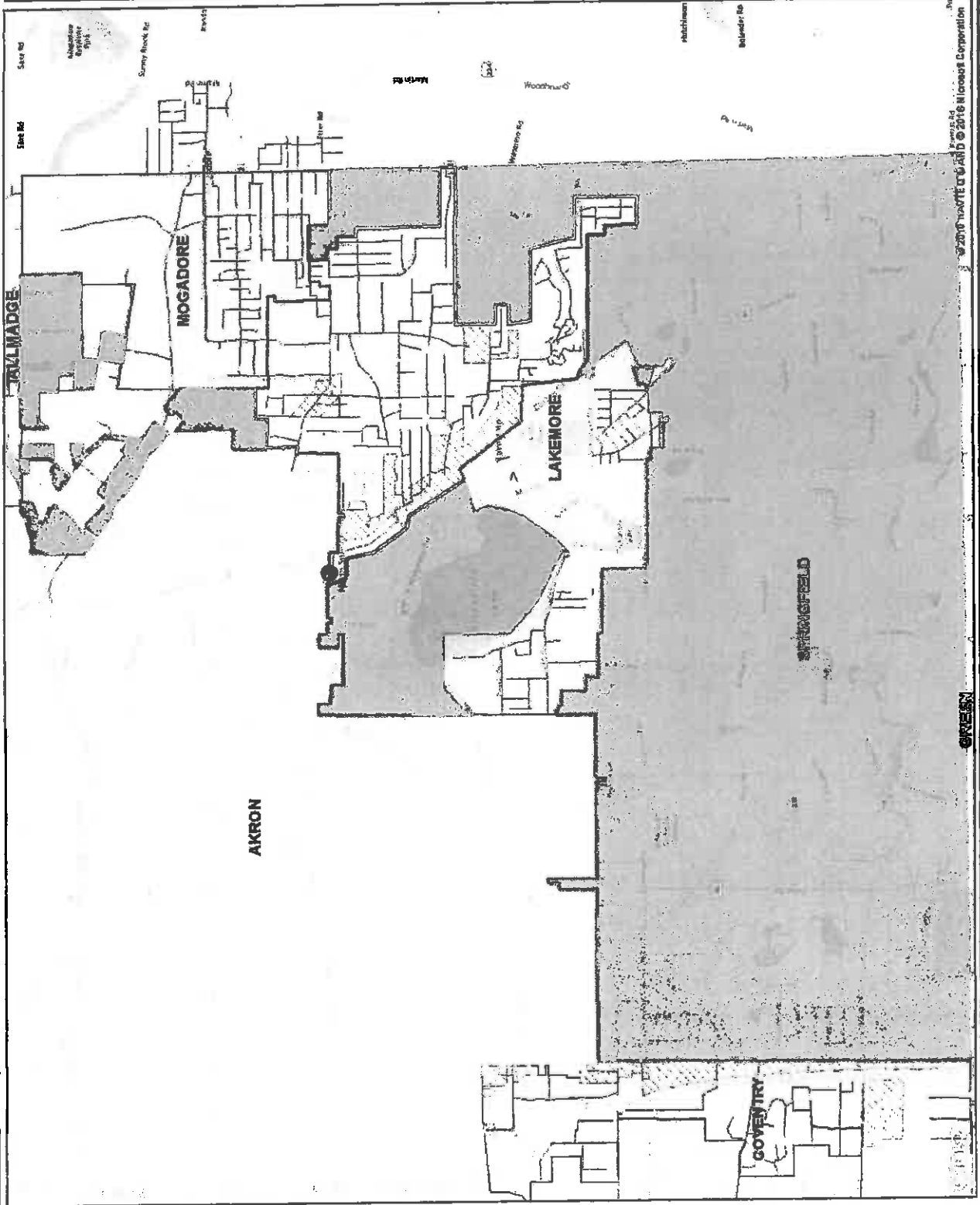


Map displays an approximation representation of the service area.



Springfield Meter District
City of Akron, Operations Support

Date: 8/24/2016



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City of Akron

Master Meter Rate Model 2016 Update

2016 Master Metered Suburban Allocations

	Total 2016	Percent	Dollars (\$)	Percent	Dollars (\$)	Percent	Dollars (\$)	Percent	Dollars (\$)	Percent	Dollars (\$)	Percent	Dollars (\$)
Waste Treatment (O&M)													
Volume	1,533,688	19.83%	383,598	7.75%	149,767	39.75%	788,453	8.35%	122,804	16.98%	328,910	9.34%	180,685
BOD	2,408,437	23.73%	571,571	9.84%	226,981	47.15%	1,185,530	3.35%	80,703	10.25%	246,829	5.88%	136,823
Suspended Solids	2,601,987	21.85%	588,816	7.31%	180,080	50.32%	1,308,221	3.41%	88,667	11.47%	258,380	5.64%	146,344
Subtotal	6,544,112	21.85%	1,533,915	8.31%	578,846	46.27%	3,213,314	4.21%	252,174	12.58%	873,498	6.69%	464,333
Waste Treatment (Replacement)													
Volume	645,879	19.83%	128,104	7.75%	50,031	39.75%	256,714	6.35%	41,018	16.98%	108,680	9.34%	80,365
BOD	45,217	23.73%	10,781	9.84%	4,248	47.15%	21,318	3.35%	1,515	10.25%	4,634	5.88%	2,568
Suspended Solids	13,125	21.85%	2,866	7.31%	859	50.32%	6,804	3.41%	447	11.47%	1,505	5.64%	741
Subtotal	704,221	21.12%	141,704	7.87%	55,439	40.42%	284,634	6.10%	42,981	16.44%	115,739	9.04%	63,684
Treat (O&M and Replacement)													
Volume	7,840,333		1,685,619		634,287		3,497,948		335,154		989,297		528,027
Waste Collection (O&M)													
Trunk Sewers	484,172	19.83%	96,031	7.75%	37,505	39.75%	192,439	6.35%	30,749	16.98%	82,205	8.34%	45,244
Local Sewers	484,172		96,031		37,505		192,439		30,749		82,205		45,244
Subtotal	968,344		192,062		75,010		384,878		61,498		164,410		90,488
Waste Collection Replacement													
Trunk Sewers	608,536	19.83%	120,301	7.75%	46,993	39.75%	241,074	8.35%	38,520	16.98%	102,980	9.34%	55,678
Local Sewers	608,536		120,301		46,993		241,074		38,520		102,980		55,678
Subtotal	1,217,072		240,602		93,986		482,148		77,040		205,960		111,356
Infiltration Inflow													
Collection O&M	133,686	19.83%	26,506	7.75%	10,353	39.75%	53,123	8.35%	8,488	16.98%	22,692	9.34%	12,490
Trunk Sewers	133,686		26,506		10,353		53,123		8,488		22,692		12,490
Local Sewers	133,686		26,506		10,353		53,123		8,488		22,692		12,490
Treatment O&M	533,764	19.83%	105,873	7.75%	41,349	39.75%	212,182	6.35%	33,900	16.98%	90,630	9.34%	49,681
Volume	46,121	19.83%	9,148	7.75%	3,573	39.75%	18,331	8.35%	2,929	16.98%	7,831	9.34%	4,310
Suspended Solids	713,571		141,650		55,274		289,916		45,317		121,153		69,890
Subtotal (O&M)	1,177,450		235,976		89,975		464,431		77,647		213,155		111,671
Collection (Replacement)													
Trunk Sewers	167,434	19.83%	33,206	7.75%	12,970	39.75%	68,548	6.35%	10,633	16.98%	28,428	9.34%	15,646
Local Sewers	167,434		33,206		12,970		68,548		10,633		28,428		15,646
Treatment (Replacement)	178,281	19.83%	35,360	7.75%	13,810	39.75%	70,960	6.35%	11,322	16.98%	30,289	9.34%	16,680
Volume	233	19.83%	46	7.75%	18	39.75%	93	6.35%	15	16.98%	40	9.34%	22
Suspended Solids	348,948		69,516		26,798		137,500		21,970		59,737		32,327
Subtotal	445,715		88,566		32,778		168,508		26,977		73,674		38,674
Collection & Treatment of IU													
Volume	1,089,519		210,146		82,072		421,116		67,288		179,980		99,008
Total (O&M and Replacement)													
Volume	1,090,708		216,332		84,488		433,519		69,268		186,185		101,922
Field Monitoring	157,151	19.83%	31,169	7.75%	12,173	39.75%	62,461	6.35%	9,980	16.98%	26,882	9.34%	14,665
Debt Maturity Discharge													
Volume	1,245,895	19.83%	247,112	7.75%	96,509	39.75%	495,193	6.35%	79,124	16.98%	211,533	9.34%	116,424
BOD	1,316,572	23.73%	312,449	9.84%	129,846	47.15%	629,737	3.35%	44,116	10.25%	134,929	5.88%	74,794
Suspended Solids	1,125,555	21.85%	246,049	7.31%	82,222	50.32%	586,322	3.41%	39,354	11.47%	129,080	5.64%	63,520
Subtotal	3,987,993	21.84%	805,610	8.35%	308,577	45.51%	1,692,258	4.38%	181,594	12.89%	475,522	5.91%	254,738
Debt IU	383,870	19.83%	72,170	7.75%	28,188	39.75%	144,634	6.35%	23,109	16.98%	61,779	9.34%	34,002
Total IU	1,423,399		282,315		110,256		566,790		90,396		241,689		133,010
Total MM Revenue Requirements	14,907,574		\$,084,268		1,147,483		\$,241,913		666,393		1,918,325		1,032,392

	Total		Percent		Amount (\$)		Percent		Amount (\$)		Percent		Amount (\$)		Percent		Amount (\$)	
	(\$)																	
Waste Treatment (C&M)																		
Volume	2,554,248	1,697,652	92.25%	1,446,481	7.75%	131,471	476,785	84.70%	403,439	15.30%	72,946	209,511	90.38%	189,365	9.62%	20,146		
ROD	3,360,090	1,883,677	92.25%	1,681,898	7.75%	142,081	807,950	84.70%	645,288	15.30%	162,661	548,154	90.38%	485,446	9.62%	62,708		
Suspended Solids	5,500,828	2,798,472	92.25%	2,577,058	7.75%	216,414	1,688,894	84.70%	1,458,988	15.30%	229,906	1,008,471	90.38%	911,501	9.62%	96,971		
Subtotal	11,784,165	6,178,401		4,710,435		478,986	3,173,819		2,680,071		495,446	1,768,138		1,398,311		189,804		
Waste Treatment (Replacement)																		
Volume	752,850	523,718	92.25%	483,145	7.75%	40,573	159,253	84.70%	134,888	15.30%	24,365	89,979	90.38%	83,250	9.62%	6,728		
ROD	83,459	34,432	92.25%	31,785	7.75%	2,687	18,736	84.70%	15,888	15.30%	2,867	10,291	90.38%	9,301	9.62%	890		
Suspended Solids	27,747	14,091	92.25%	12,989	7.75%	1,092	6,589	84.70%	5,688	15.30%	861	5,087	90.38%	4,598	9.62%	489		
Subtotal	844,156	672,441		627,909		44,352	184,588		159,076		28,542	85,357		77,148		8,208		
Total (C&M and Replacement)	11,979,311	6,767,642		6,283,344		624,238	3,360,177		2,844,085		2,844,085	514,081		1,851,493		1,851,493		
Waste Collection (O&M)																		
Trunk Sewers	594,436	392,899	92.25%	362,181	7.75%	30,415	118,381	84.70%	101,116	15.30%	18,265	62,459	90.38%	47,415	9.62%	5,044		
Local Sewers	1,824,184	1,274,385	92.25%	1,175,657	7.75%	98,728	387,516	84.70%	328,228	15.30%	59,288	170,283	90.38%	153,909	9.62%	16,374		
Subtotal	2,398,620	1,668,981		1,537,838		129,143	506,897		429,344		77,553	222,742		201,324		21,818		
Waste Collection Replacement																		
Trunk Sewers	707,085	491,816	92.25%	453,714	7.75%	38,102	149,532	84.70%	126,671	15.30%	22,861	65,717	90.38%	59,988	9.62%	6,319		
Local Sewers	2,701,998	1,879,988	92.25%	1,739,789	7.75%	145,999	671,466	84.70%	484,651	15.30%	87,435	281,124	90.38%	228,977	9.62%	24,147		
Subtotal	3,409,083	2,871,804		2,187,504		184,700	721,098		810,723		110,275	319,841		296,375		30,466		
Total (C&M and Replacement)	5,805,703	4,038,185		3,725,841		319,844	1,227,935		1,040,067		187,288	639,683		487,696		81,984		
Highly Sensitive Inflow Collection C&M																		
Trunk	1,402,438	975,464	92.25%	899,694	7.75%	75,570	256,630	84.70%	251,239	15.30%	45,381	130,942	90.38%	117,809	9.62%	12,833		
Local	2,683,924	1,868,817	92.25%	1,723,192	7.75%	144,625	587,693	84.70%	480,813	15.30%	86,880	246,444	90.38%	225,468	9.62%	23,986		
Treatment O&M	5,801,011	3,899,809	92.25%	3,585,895	7.75%	301,813	1,184,642	84.70%	1,003,396	15.30%	181,244	520,580	90.38%	470,505	9.62%	50,075		
Suspended Solids	483,828	336,605	92.25%	310,828	7.75%	26,077	102,865	84.70%	86,895	15.30%	15,970	44,977	90.38%	40,653	9.62%	4,325		
Subtotal (C&M)	10,171,298	7,074,895		6,526,609		584,088	2,181,280		1,822,143		325,136	946,323		824,425		90,898		
Collection (Replacement) Treatment (Replacement)	5,714,947	3,979,059	92.25%	3,667,108	7.75%	307,953	1,208,740	84.70%	1,023,809	15.30%	184,531	531,148	90.38%	480,075	9.62%	51,073		
Volume	1,870,689	1,301,152	92.25%	1,200,350	7.75%	100,892	385,856	84.70%	335,122	15.30%	60,533	173,961	90.38%	157,143	9.62%	16,718		
Suspended Solids	2,443	1,899	92.25%	1,861,967	7.75%	132	517	84.70%	438	15.30%	79	227	90.38%	205	9.62%	22		
Subtotal Replacement	7,598,089	5,277,910		4,869,023		409,987	1,604,913		1,359,989		245,244	793,258		637,423		87,813		
Collection & Treatment of (O)	17,799,387	12,292,805		11,288,632		899,973	3,738,193		3,181,514		574,679	0		1,491,848		189,711		
Field Monitoring	400,789																	
Dock																		
Entire System	9,497,882	5,876,786	92.25%	5,421,504	7.75%	455,282	2,395,132	84.70%	2,028,888	15.30%	366,444	1,226,714	90.38%	1,107,454	9.62%	117,960		
Local	2,100,557	1,461,053	92.25%	1,347,853	7.75%	111,199	444,278	84.70%	378,308	15.30%	67,972	195,226	90.38%	176,454	9.62%	18,772		
Subtotal	11,998,189	7,337,839		6,769,387		566,482	2,839,410		2,406,994		434,416	1,421,940		1,284,908		136,832		
Total RSA Revenue	47,543,380	30,486,271		28,133,864		2,282,887	11,183,715		9,472,661		1,711,054	5,893,364		5,295,657		863,707		
Transfers from Other Departments	14,007,574																	
Grand Total	61,550,954																	

OPERATIONAL INPUT DATA

Volume Treated @ WPCS
 Total B.O.D. @ WPCS
 Inflow/Trill. @ 25 MG/L S.S.
 Total S. S. @ WPCS

26,063.40
 14.98
 1.79
 26.65

MGAYR
 MIL #/YR
 MIL #/YR
 MIL #/YR

FLOW BY USER GROUPS (MG/Year)

	Total	Akron	Suburban	
Metered Discharge				
Residential	3,959.03	3,632.32	306.71	92.25%
Commercial	1,203.87	1,019.68	184.19	84.70%
Industrial	523.01	478.14	50.87	90.38%
Master Metered Suburban				
CuyahogaFalls	968.40			
Montrose	378.21			
Mudbrook	1,340.69			
Lakemore	310.08			
Tallmadge	828.97			
Springfield	458.25			

IN BY-USER GROUPS (MG/Year)

Total I/I
 Trunk
 Local

15,468.89
 6,837.39
 9,381.00

I/I	Total	Akron	Suburban
Residential	14,141.28	9,074.02	782.01
Commercial	9,836.03	2,533.35	457.60
Industrial	2,990.85	1,187.92	126.38
Master Metered Suburban			
CuyahogaFalls	1,347.71		
Montrose	267.31		
Mudbrook	104.40		
Lakemore	535.66		
Tallmadge	85.69		
Springfield	228.82		
125.94			
Unbilled Discharge (Est)			
Akron City	12,795.29	MGAYR	
Outside City	7,345.99	MGAYR	
Master Metered Suburban	1,347.71	MGAYR	

LOADINGS BY USER GROUPS

	BOD (meq/l)	SS (meq/l)
Residential	180	285
Commercial	340	570
Industrial	425	770
Master Metered Suburban		
Cuyahoga Falls	242	237
Mantrose	257	203
Mud Brook	240	273
Lakemore	107	116
Tallmadge	122	145
Springfield	123	130

USER CLASSES (# OF CUSTOMERS)

Residential	72,754
Commercial	3,482
Industrial	821

SAMPLES PROCESSED

Industrial	535
Master Metered Suburban	1,093

FINANCIAL INPUT DATA

TREATMENT FUNCTIONS (ANNUAL COSTS):

WPCS Administration	\$ 1,573,521
Preliminary Treatment	\$ 725,125
Primary Treatment	\$ 1,203,708
Secondary Treatment	\$ 1,831,831
Secondary Sludge	\$ 493,085
Renewable Energy Facility	\$ 10,170,470
Primary Sludge	\$ 246,543
Disinfection	\$ 311,804
Lab. Anal. (Prl. & River)	\$ 558,346

Field Monitoring & Waste

Discharge Analysis	\$ 507,588	Includes Pretreatment \$
Pretreatment Program	\$ 183,747	
Bureau Administration	\$ 323,841	
	\$ 7,880,380	

Total \$ 25,302,070

OTHER ANNUAL COSTS

Sewer Maintenance Cost	\$ 7,100,800
Replacement Cost For WPCS	\$ 3,600,000
Replacement Cost For Sewage Collection System	\$ 9,898,000

Total \$ 20,598,800

DEBT SERVICE ALLOCATION

Local	VOLUME	BOD	SS	TOTAL
	\$ 2,100,557	\$	\$	\$ 2,100,557

Allocation to all User classes

	\$ 6,650,742	\$ 3,164,294	\$ 3,734,459	\$ 13,549,495
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Totals

	\$ 8,751,299	\$ 3,164,294	\$ 3,734,459	\$ 15,650,051
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TOTAL REVENUE NEEDS \$ 61,550,921

2016 Budgeted Costs - Fund 51001

Division	Description	Sewer Bureau	Sewer Utilities	WPCCS	WPCCS Water	WPCCS	Total
		Administration	Field Operations	Treatment Plant	Quality Control Lab	Renewable Energy Facility	
		114100	114200	114400	114500	114800	
61015	Salary	-	2,957,000.00	2,274,910.00	-	-	5,231,910.00
61025	Part Time	-	110,000.00	20,740.00	-	-	130,740.00
61058	Overtime	-	160,000.00	225,000.00	-	-	385,000.00
61065	Longevity Pay	-	31,000.00	38,500.00	-	-	69,500.00
61070	Leave Purchases	-	-	-	-	-	-
61075	Bonus Pay	-	24,000.00	18,890.00	-	-	42,890.00
61085	Payroll Uniform Allowances	-	4,000.00	180.00	-	-	4,180.00
62005	Health Benefits	-	1,107,000.00	882,000.00	-	-	1,989,000.00
62025	Worker's Compensation	-	98,580.00	78,720.00	-	-	177,300.00
62030	Unemployment Compensation	-	-	75,100.00	-	-	75,100.00
62035	Medicare Insurance	-	47,650.00	37,090.00	-	-	84,740.00
62040	PERS-City Share	-	480,040.00	358,030.00	-	-	838,070.00
62042	PERS-Acquired Liability	-	-	-	-	-	-
62065	Retirement Payout	-	60,000.00	138,000.00	-	-	198,000.00
62070	VSP Payout	-	-	-	-	-	-
Subtotal		-	-	-	-	-	9,202,420.00
70002	Food & Provisions	-	-	-	-	-	-
70004	Postage	-	-	400.00	-	-	400.00
70006	Landscaping Supplies	-	1,000.00	200.00	-	-	1,200.00
70008	Construction Materials	-	70,000.00	8,700.00	-	-	78,700.00
70010	Small Tool Supplies	-	-	3,800.00	-	-	3,800.00
70012	Plumbing Supplies	-	-	4,800.00	-	-	4,800.00
70014	HVAC Supplies	-	-	1,150.00	-	-	1,150.00
70016	Lighting Supplies	-	-	1,030.00	-	-	1,030.00
70017	Mechanical Supplies	-	80,000.00	269,800.00	-	-	349,800.00
70018	Electrical Supplies	-	16,200.00	49,300.00	-	-	65,500.00
70020	Office Supplies	-	-	1,700.00	-	-	1,700.00
70022	Fuel	-	-	44,100.00	-	-	44,100.00
70024	Oil	-	-	10,000.00	-	-	10,000.00
70025	Motor Vehicle Parts	-	-	4,800.00	-	-	4,800.00
70026	Motor Vehicle Supplies	-	10,550.00	3,240.00	-	-	13,790.00
70028	Janitorial Supplies	-	-	950.00	-	-	950.00
70030	Medical Supplies	-	-	580.00	-	-	580.00
70032	Chemical Supplies	-	2,500.00	185,600.00	-	-	188,100.00
70038	Computer Software and Supplies	-	3,000.00	2,900.00	-	-	5,900.00
70040	Other Supplies	-	60,900.00	23,000.00	-	-	83,900.00
70102	Engineering Contractual Services	-	-	-	-	-	-
70106	Legal Contractual Services	360,000.00	-	-	-	-	360,000.00
70110	Consulting Contractual Services	58,850.00	3,800.00	8,700.00	-	-	71,350.00
70112	Duplicating and Printing Services	-	58,640.00	53,790.00	-	-	112,430.00
70116	Landscaping & Parks Services	-	4,000.00	1,640.00	-	-	5,640.00
70118	Elevator & Contractual Services	-	17,970.00	-	-	-	17,970.00
70120	HVAC Contractual Services	-	-	-	-	-	-
70122	Custodial Contractual Services	-	-	98,200.00	-	-	98,200.00
70126	Other Contractual Services	-	12,500.00	53,020.00	-	-	65,520.00
70127	Special Services	45,000.00	100,000.00	167,470.00	-	10,098,520.00	10,310,990.00
70202	Maintenance of Land	-	45,000.00	59,000.00	-	-	104,000.00
70208	Maintenance of Streets	-	-	31,200.00	-	-	31,200.00
70210	Maintenance of Sewers	-	171,000.00	-	-	-	171,000.00

2016 Budgeted Costs - Fund 51001

	Sewer Bureau Administration	Sewer Utilities Field Operations	WPCS Treatment Plant	WPCS Water Quality Control Lab	WPCS Renewable Energy Facility	Total
70216	Maintenance of Office Equipment	1,142.00	1,440.00	1,145.00	1,146.00	3,730.00
70218	Maintenance of Computer Equipment	-	1,000.00	-	-	1,200.00
70220	Maintenance of Buildings	-	4,770.00	1,200.00	-	85,070.00
70222	Maintenance of Motor Vehicles	-	58,000.00	5,000.00	-	63,000.00
70226	Maintenance of Water Systems	-	-	2,280.00	-	2,280.00
70230	Maintenance of Electrical Equipment	-	-	48,400.00	-	48,400.00
70234	Maintenance of Machinery and Tools	-	4,750.00	3,900.00	-	8,650.00
70238	Maintenance of Other Equipment	-	38,600.00	18,780.00	-	57,380.00
70240	Maintenance of Instruments	-	13,200.00	542,800.00	-	556,000.00
70302	Office Equipment and Furniture	-	-	6,500.00	-	6,500.00
70304	Machinery and Tools	-	-	4,050.00	-	4,050.00
70308	Instruments	-	-	11,800.00	-	11,800.00
70316	Other Equipment	-	-	-	-	-
70318	Computer Equipment	-	5,500.00	-	-	14,900.00
70322	Safety Related Equipment	-	3,370.00	3,770.00	-	9,140.00
70324	Computer Lic./Annual Report	-	-	-	-	-
70402	Subscriptions and Publications	-	-	-	-	-
70404	Travel	-	1,000.00	-	-	8,800.00
70406	Education and Certification	-	4,670.00	-	-	7,070.00
70408	Mileage Reimbursement Personal Car Use	-	-	2,200.00	-	-
70410	Advertising	-	-	-	-	-
70412	Appraisal Services	-	-	-	-	-
70414	Dues and Memberships	16,500.00	250.00	18,700.00	-	34,450.00
70416	Titles and Fees	-	500.00	-	-	500.00
70418	Recording Fees	-	6,500.00	46,000.00	-	70,100.00
70420	License Fees	-	-	-	15,600.00	-
70421	Other fees	-	-	-	-	-
70428	Judgments	-	-	-	-	-
70430	Claims	1,000.00	-	-	-	1,000.00
70432	Uniform Allowance-Non Payroll	-	14,520.00	7,300.00	-	21,820.00
70434	Suit Purchase	-	400.00	-	-	-
70436	Refunds	130,000.00	-	-	-	130,400.00
72005	Telephone	-	-	5,950.00	-	13,409,700.00
72050	Cellular Phone	-	11,500.00	4,180.00	-	5,950.00
72100	Gas	-	38,500.00	74,400.00	-	15,480.00
72110	Methane Gas	-	-	-	7,950.00	120,650.00
72150	Electric	-	226,000.00	844,800.00	-	1,089,500.00
72250	Tipping Fees	-	-	121,300.00	-	121,300.00
72300	W/F Water	-	-	-	-	-
72350	W/F Sewer	-	-	-	-	-
72400	Energy Conservation	-	-	-	-	-
73005	Principal Payments	19,600,000.00	-	-	-	1,352,850.00
73050	Interest Payments	3,000,000.00	-	-	-	19,600,000.00
73060	Debt Service to BPF	-	-	-	-	3,000,000.00
73100	Bond Issuance Expense	200,000.00	-	-	-	-
70039	petty Cash	-	-	-	-	200,000.00
Subtotal	-	-	-	-	-	22,800,000.00

2016 Budgeted Costs - Fund 51001

	Sewer Bureau Administration	Sewer Utilities Field Operations	WPCS Treatment Plant	WPCS Water Quality Control Lab	WPCS Renewable Energy Facility	Total
74005	Vehicle Insurance	114,100				
74050	Property Insurance	-	42,670.00	6,960.00	-	49,630.00
75005	Taxes (Real Estate)	40,000.00	23,600.00	77,400.00	-	168,000.00
75005	Taxes (Real Estate)	1,000.00	-	-	27,000.00	1,000.00
Subtotal						218,630.00
76005	Equipment Rental	-	970.00	1,550.00	-	1,550.00
76050	Property Rental	-	-	-	-	-
76100	Equipment Lease/Purchase	-	-	-	-	-
76150	Property Lease/Purchase	81,000.00	3,950.00	90.00	-	85,040.00
Subtotal						87,590.00
78005	Land Purchases	-	-	-	-	-
78010	Building and Structures	-	-	-	-	-
78025	Reservoir & Storage Tanks	-	-	-	-	-
78035	Sewers	-	-	-	-	-
78050	Machinery & Tools	-	-	-	-	-
78065	Instruments	-	-	-	-	-
78115	Truck Purchases	-	388,000.00	-	-	388,000.00
78120	Van Purchase	-	-	-	-	-
78140	Accessories/Inovants, camp, trailers)	-	37,800.00	-	-	37,800.00
78145	Contractors Equipment	-	-	-	-	-
Subtotal						428,800.00
80005	W/ Motor Vehicle Rental/Labor Charge	-	225,000.00	11,100.00	-	236,100.00
80010	W/ Veh. Fuel Charge	-	-	-	-	-
80020	W/ Graphics Charge	-	-	-	-	-
80025	W/ Storeroom Supplies Charge	-	8,500.00	6,530.00	-	13,030.00
80026	W/ Communications Services	-	12,100.00	3,400.00	-	15,500.00
80027	W/ Telephone	-	2,100.00	5,860.00	-	7,960.00
80030	W/ Storeroom Duplicating Charge	-	-	-	-	-
80035	W/ Storeroom Malfunction Charge	-	120.00	680.00	-	780.00
80040	W/ MIS Charge	-	22,260.00	26,400.00	-	50,660.00
80045	W/ Enciphering Bureau Charge	-	-	-	-	-
80050	W/ Administrative Charge	5,000,000.00	-	-	2,700.00	5,000,000.00
80055	Supplies and Materials Charge	-	98,800.00	-	-	98,800.00
80076	W/ Reimbursement for Expenses	-	31,120.00	-	-	31,120.00
80240	W/ Transfers (Sewer, Pumps to Funds)	1,981,120.00	-	-	-	1,981,120.00
80365	W/ Tr. Unclassified Services Charges	-	-	-	-	-
80365	W/ Tr. Unclassified Services Charges	-	-	-	-	-
80531	W/ AFS/Office Automation	-	55,350.00	44,100.00	-	99,450.00
80535	W/ IT Capital Transfer Out	-	-	-	-	-
80538	W/ Trans Assessed Proj Cost	-	-	-	-	-
80538	W/ Project Costs	-	-	-	-	-
Subtotal						7,605,900.00
GRAND TOTAL	30,480,350.00	7,100,800.00	7,251,250.00	-	10,170,470.00	55,002,870.00

Allocate Treatment Costs to Treatment Functions

CODE	DESCRIPTION	WPCS COSTS	% Total WPCS Costs
		\$ 7,251,250.00	
	Percent of Total		
114430	PRELIMINARY TREATMENT	\$725,125	10.0%
114435	PRIMARY TREATMENT	\$1,203,708	16.6%
114440	SECONDARY TREATMENT	\$1,631,531	22.5%
114450	PRIMARY SLUDGE	\$246,543	3.4%
114455	DISINFECTION	\$311,804	4.3%
14505	LAB. ANAL. (PLT. & RIVER)	\$558,346	7.7%
114510	FIELD MONITORING & WASTE/ DISCHARGE ANALYSIS	\$507,588	7.0%
	ADMINISTRATIVE CONTROL	\$1,573,521	21.7%
114445	SECONDARY SLUDGE	\$493,085	6.8%
114405	BUREAU ADMINISTRATION	\$7,880,350	
114600	Renewable Energy Facility	\$10,170,470	
	TOTAL	\$25,302,070	100.0%

Project Type	Sewers - Trunks	Sewers - Local	Pumping - Trunks	Pumping - Local	Wet Weather - All Users	Wet Weather - Treatment	Mis Program Management - All Users	Mis Program Management - Akron Only	Total	Rationale
LTCP conveyance/storage	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	All users share in LTCP overall conveyance projects.
LTCP treatment	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	All users share in LTCP treatment projects.
Sewer lines	38.40%	63.80%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	City GIS database referenced to identify trunk vs local sewers
Pump stations	0.00%	0.00%	38.40%	63.80%	0.00%	0.00%	0.00%	0.00%	100.00%	City GIS database identifies asset served - trunk vs local sewers
Other non-LTCP projects	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	38.40%	63.80%	100.00%	TBD after purpose is identified

City of Adams
 Warehouse Site and Capital Cost Allocation
 Percentage Allocation of Projects in Warehouse

Project Name	Project Number	Start	End	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 8	Phase 9	Phase 10	Phase 11	Phase 12	Phase 13	Phase 14	Phase 15	Phase 16	Phase 17	Phase 18	Phase 19	Phase 20	Phase 21	Phase 22	Phase 23	Phase 24	Phase 25	Phase 26	Phase 27	Phase 28	Phase 29	Phase 30	Phase 31	Phase 32	Phase 33	Phase 34	Phase 35	Phase 36	Phase 37	Phase 38	Phase 39	Phase 40	Phase 41	Phase 42	Phase 43	Phase 44	Phase 45	Phase 46	Phase 47	Phase 48	Phase 49	Phase 50					
ADAMS COUNTY PUBLIC HEALTH CENTER	P1001	10/10/10	03/31/14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%					
ADAMS COUNTY PUBLIC HEALTH CENTER	P1001	10/10/10	03/31/14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
ADAMS COUNTY PUBLIC HEALTH CENTER	P1001	10/10/10	03/31/14	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

CITY OF AKRON Cash-Funded Capital 2016

Capital Projects		Standard Allocation			
Name	2016 Cash-Funded Projected Expense	Volume + I/I	B.O.D.	S.S.	
Replacement Cost for WPCS					
Annual Allocation 1	Annual Plant & Pump Station Renewal	5,000,000	97%	2%	
Leachate Revenue	Leachate Revenue	(400,000)	96%	3%	
--> Insert all rows above this line					
WPCS Subtotal		4,600,000			
Replacement Cost for Collection System					
CMOM	Cleaning / Inspection	6,500,000	100%		
P05108	Flow Monitoring/Rain Gauge	50,000	96%	3%	
Annual Allocation 4	Tree Planting	450,000	96%	3%	
Annual Allocation 8	Green Infrastructure Maintenance Program	40,000	96%	3%	
Annual Allocation 7	Sustainability Initiatives	1,000,000	96%	3%	
Annual Allocation 6	Miscellaneous Collection System Improvements	450,000	100%		
P15022	Hampden Ridge Pump Station	50,000	100%		
P15012	Talmadge Ave- Firestone Sewer Lining	358,000	100%		
--> Insert all rows above this line					
Cash-funded capital	Net Replacement Cost for WPCS	3,500,000			
	Net Replacement Cost for Collection System	9,898,000			
Total Capital		13,498,000			

Cash-Funded Capital Allocation by Allocation Group				
Description	Volume + I/I	B.O.D.	S.S.	Total
Replacement Cost - WPCS	3,447,777	108,675	43,548	3,600,000
Replacement Cost - Collection System	9,892,883	46,489	18,629	9,998,000
Total	13,280,660	155,164	62,176	13,498,000

Capital Allocation Percentage

Functions	Costs shared	Direct/ Indirect	Volume *			
			LI	B.O.D.	S.S	
Sewers-Trunks	All Users	Direct	100%		0%	
Sewers - Local	Local only	Direct	100%		0%	
Pumping- Trunks	All Users	Direct	100%		0%	
Pumping- Local	Local only	Direct	100%		0%	
Wet Weather - Trunks	All Users	Direct	100%		0%	
Wet Weather - Local	Local only	Direct	100%		0%	
Wet Weather - Treatment	All Users	Direct	100%		0%	
Green Infrastructure- Trunks	All Users	Direct	100%		0%	
Green Infrastructure- Local	Local only	Direct	100%		0%	
Prelim. Treatment	All Users	Direct	75%		25%	
Primary Treatment	All Users	Direct	40%	20%	40%	
Secondary Treatment	All Users	Direct	20%	60%	20%	
Primary Sludge	All Users	Direct	0%	36%	64%	
Disinfection	All Users	Direct	100%	0%	0%	
Lab Analysis (PLT & River)	Industrial (Akron) MM	Direct	100%	0%	0%	
Field Monitoring & Waste Discharge Analysis	All Users	Direct	100%	0%	0%	
Admin Control	All Users	Indirect	98%	3%	1%	
CMOM - Local	Local only	Direct	100%		0%	
CMOM- Trunks	All Users	Direct	100%		0%	
Mis Program Management - All Users	All Users	Indirect	96%	3%	1%	
Mis Program Management - Akron Only	Local only	Indirect	96%	3%	1%	
Dissolved Air Flotation	All Users	Direct	0%	60%	40%	
Allocation between Trunk sewer/all users and Local sewer/ Akron only						
	Trunk Sewer					
						36.4%
	Local Sewer					
						63.6%

Total Annual Flow				Strength (BOD)				Suspended Solids					
Volume at WPCSS	MG/YR	MI	Total	MG/L	ML #/Yr	% of Total	Master Meter System (%)	MG/L	ML #/Yr	% of Total	Master Meter System (%)	Includes MI	Master Meter System (%)
Metered Discharge & MI (at source)													
Residential	3,959.03	9,896.03	13,795.06	180	8.27	31.88%	23.73%	285	9.41	34.48%	21.88%		
Commercial	1,203.87	2,990.96	4,194.82	340	3.41	17.24%	9.84%	570	5.72	20.87%	7.31%		
Industrial	599.01	1,314.30	1,913.30	455	1.88	9.47%	47.15%	770	3.40	12.45%	50.32%		
Subtotal	5,691.904	14,141.28	19,833.18	955	11.56	58.59%	10.25%	1,025	18.53	67.8875%	11.47%	18.53	63.72%
Master Metered Suburban													
Cuyahoga Falls	968	287	1,238	242	1.96	9.87%	23.73%	237	1.92	7.02%	21.88%		
Montrose	378	104	483	257	0.81	4.09%	9.84%	203	0.84	2.35%	7.31%		
Mild Brook	1,841	536	2,479	240	3.88	19.82%	47.15%	273	4.41	16.16%	50.32%		
Lakewood	310	88	396	107	0.28	1.39%	3.35%	116	0.30	1.09%	3.41%		
Tallmadge	829	229	1,056	182	0.84	4.28%	10.25%	145	1.01	3.88%	11.47%		
Springfield	456.26	125.94	582.19	182	0.47	2.36%	5.98%	130	0.48	1.81%	5.64%		
Subtotal	4,882.50	1,387.71	6,250.21	1,091	8.24	41.61%	100.00%	1,104	8.77	32.17%	100.00%	8.77	30.14%
Total Metered Discharge	10,574.41	15,488.99	26,063.40				100.00%						
Total Infiltration/Inflow	15,488.99											1.78	6.14%
Total Annual Loadings				19,890				27,300				29,080	100.00%

ALLOCATION OF SEWER MAINTENANCE COSTS

USER CLASS	METERED DISCHARGE	% OF TOTAL MTRD FLOW	ALLOCATION OF I/I	% OF NON-MMS FLOW	ALLOCATION OF I/I-NON MMS
Residential	3,959.03	37.44	63.50	69.56	69.56
Commercial	1,203.87	11.38	19.31	21.15	21.15
Industrial	529.01	5.00	8.49	9.29	9.29
Master Meter Suburban	4,882.50	46.17	8.70		
Total	10,574.41	100.00	100.00	100.00	100.00
USER CLASS	SAMPLES PROCESSED	% TOTAL			
Industrial	535	32.87			
Master Meter Suburban	1,093	67.13			
Total	1,628	100.00			

Metered Flow + I Allocation Methodology

	Metered Discharge MG/YR	% of Total	Trunk Sewer I/I	Local Sewer/I/I	Total I/I	Total
Volume at WPCS	26,063.40	40.57%	5,637.99	9,851.00	15,488.99	26,063.40
Metered Discharge & I/I (at source)						
Residential	3,959.03	15.19%	2,984.13	6,851.91	9,836.03	14,795.21
Commercial	1,209.87	4.62%	907.42	2,083.54	2,990.95	4,194.86
Industrial	529.01	2.03%	398.74	915.56	1,314.30	1,843.32
Subtotal	5,697.90	21.84%	4,290.29	9,851.00	14,141.28	19,833.40
Master Metered Suburban						
Clayhoga Falls	988	3.72%	267.31		267.31	1,236
Morrose	378	1.45%	104.40		104.40	483
Mud Brook	1,941	7.45%	535.66		535.66	2,476
Lakemore	310	1.19%	85.59		85.59	396
Tallmadge	829	3.18%	228.82		228.82	1,058
Springfield	456	1.75%	125.94		125.94	582
Subtotal	4,882.50	18.73%	1,347.71		1,347.71	6,230.40
Trunk Sewer						
				Local Sewer		
	36.4%			63.6%		
Trunk sewers as defined in the City's GIS database						
TOTAL LOCAL FLOW w/ I/I Allocation						
Master Meter					Retail	
	23.90%				76.10%	

SCHEDULE 1A
ALLOCATION OF WASTE TREATMENT FUNCTION
 USING THE ACTUAL COSTS
 TO VOLUME BOD & SS FOR 2015 RATE

TREATMENT FUNCTIONS	Amount (\$)	VOLUME		BOD		SS		Other Treatment Functions	
		%	\$	%	\$	%	\$	%	\$
Preliminary Treatment	725,125	75.00	543,844	20.00	240,742	25.00	181,281		
Primary Treatment	1,203,708	40.00	481,483	60.00	978,919	40.00	481,483		
Secondary Treatment	1,631,531	20.00	326,306	60.00	295,851	20.00	326,306		
Disinfectant Air Flotation	493,085			36.00	3,861,389	64.00	6,509,101		
Renewable Energy Facility	10,170,470			36.00	88,755	64.00	157,788		
Sludge Incineration & Disposal	248,543								
Distriaction	311,804	100.00	311,804						
Lab. Analysis (P.L.T. & River)	558,346	100.00	558,346						
<i>Field Monitoring Waste</i>									
Discharge Analysis	507,588								
Administrative Control	1,573,521								
Subtotal	17,421,720	14.02	2,442,991	33.23	5,788,517	49.55	779,680	100.00	507,588
Bureau Administration	7,880,350								
Total	25,302,070	100.00	7,880,350		5,788,517		8,632,873		557,940

ALLOCATION TO METERED DISCHARGE & I/I					
	Metered Discharge	I/I			
Volume	10,322,741	4,187,936	59.43%	6,134,805	
BOD	5,788,517	5,788,517	100.00%	0	
SS	8,632,873	8,102,814	93.86%	530,058	
Subtotal	24,744,131	18,079,287		6,664,863	
Field Monitoring	557,940				
Total	25,302,070				

SCHEDULE 1B
ALLOCATION OF VOLUME B.O.D. S.S. AND
OTHER TREATMENT COSTS TO USER CLASSES

	Amount (\$)	RESIDENTIAL		COMMERCIAL		INDUSTRIAL		MASTER METERED SUBURBAN	
		%	\$	%	\$	%	\$	%	\$
METERED DISCHARGE INFILTRATION/INFLOW	4,187,936	37.44	1,567,952	11.3E	476,785	5.00	209,511	46.17	1,933,688
	6,134,805	63.50	3,895,809	19.31	1,184,642	8.49	520,560	8.70	533,794
Total	10,322,741		5,463,761		1,661,427		730,071		2,467,482
				B.O.D.					
METERED DISCHARGE INFILTRATION/INFLOW	5,788,517	31.68	1,833,977	17.24	997,950	9.47	548,154	41.61	2,408,437
Total	5,788,517		1,833,977		997,950		548,154		2,408,437
				S.S.					
METERED DISCHARGE INFILTRATION/INFLOW	8,102,814	34.48	2,793,472	20.97	1,698,884	12.45	1,008,471	32.11	2,601,987
	530,058	63.50	336,605	19.31	102,355	8.49	44,977	8.70	46,121
Total	8,632,873		3,130,077		1,801,240		1,053,448		2,648,108
OTHER TREATMENT COSTS									
INDUSTRIAL PRETREATMENT FIELD MONITORING	323,841					32.87	323,841		157,151
	234,099						76,948		157,151
Total	557,940						400,789		157,151
GRAND TOTAL	25,302,070		10,427,815		4,460,616		2,732,462		7,681,178

SCHEDULE 2
ALLOCATION OF SEWER MAINTENANCE
COSTS TO USER CLASSES

SEWER MAINTENANCE	Amount (\$)	%	RESIDENTIAL		COMMERCIAL		INDUSTRIAL		MSTR MTRD SUBURBAN	
			\$	%	\$	%	\$	%	\$	%
TRUNK SEWER LINES *										
COLLECTION OF MTRD DISCHRG	1,048,609	37.44	392,596	11.38	119,381	5.00	52,459	46.17	484,172	
COLLECTION OF I/I	1,536,082	63.50	975,464	19.31	296,620	8.49	130,342	8.70	133,656	
Subtotal	2,584,691		1,368,060		416,001		182,801		617,828	
LOCAL & LATERAL SEWERS										
COLLECTION OF MTRD DISCHRG	1,832,185	69.56	1,274,385	21.15	387,516	9.29	170,283			
COLLECTION OF I/I	2,683,924	69.56	1,866,817	21.15	567,663	9.29	249,444			
Subtotal	4,516,109		3,141,202		955,179		419,727			
Total	7,100,800		4,509,262		1,371,180		602,528		617,828	
SUMMARY										
COLLECTION OF MTRD DISCHRG	1,048,609		392,596		119,381		52,459		484,172	
TRUNK SEWERS	1,832,185		1,274,385		387,516		170,283		0	
LOCAL LATERALS	2,880,794		1,666,981		506,897		222,742		484,172	
Subtotal	4,220,006		2,842,281		864,283		379,786		133,656	
COLLECTION OF I/I	7,100,800		4,509,262		1,371,180		602,528		617,828	
Total	7,100,800		4,509,262		1,371,180		602,528		617,828	

* Allocate 40.57% of sewer maintenance cost to metered discharge 36.4% to trunk sewer lines
59.43% to collection of I/I. 63.6% to local & lateral sewers

SCHEDULE 3
 LOCAL SEWER REPLACEMENT COSTS BY SEWER

VOLUME B.O.D. S.S.	Amount (\$)	METERED DISCHARGE		BYPASS/UNFLOW		RESIDENTIAL		COMMERCIAL		INDUSTRIAL		MSTR MTRD SUBURBAN	
		%	\$	%	\$	%	\$	%	\$	%	\$	%	\$
	3,447,777	40.57	1,398,829	50.43	2,048,948								
	109,675	100.00	109,675										
	43,548	89.88	40,672	6.14	2,678								
Total	3,600,000		1,548,576		2,051,825								
	Amount (\$)	RESIDENTIAL		COMMERCIAL		INDUSTRIAL		MSTR MTRD SUBURBAN					
		%	\$	%	\$	%	\$	%	\$				
METERED DISCHARGE INFLOW/FILTRATION	1,398,829	37.44	528,716	11.38	159,259	5.00	69,679	46.17	845,879				
	2,048,948	56.50	1,801,192	18.31	395,655	8.49	173,951	8.70	178,281				
	3,447,778		1,828,670		554,909		243,940		824,160				
	Subtotal												
METERED DISCHARGE INFLOW/FILTRATION	109,675	31.68	34,432	17.24	18,736	9.47	10,291	41.61	45,217				
	0		0		0		0		0				
	Subtotal		34,432		18,736		10,291		45,217				
METERED DISCHARGE INFLOW/FILTRATION	40,672	94.48	14,091	20.97	8,569	12.45	5,067	32.11	13,125				
	2,678	63.50	1,899	19.31	517	8.49	227	8.70	239				
	43,350		15,790		9,086		5,314		13,358				
	Subtotal												
SUSPENDED SOLIDS													
SEWER REPLACEMENT COST													
ALLOCATION OF REPLACEMENT COST FOR SEWAGE COLLECTION SYSTEM:													
TRUNK SEWER LINES -													
COLL. OF MTRD DISCHRG	1,313,861	37.44	491,816	11.38	149,552	5.00	65,717	46.17	806,536				
COLLECTION OF I/I	1,924,291	63.56	1,221,930	19.31	371,594	8.49	169,283	167,434	167,434				
	3,237,972		1,713,808		521,136		229,000	8.70	773,970				
	Subtotal												
LOCAL & LTRL SEWERS -													
COLL. OF MTRD DISCHRG	2,701,968	69.56	1,879,398	21.15	571,486	9.29	251,124						
COLLECTION OF I/I	3,658,050	99.56	2,753,099	21.15	827,155	9.29	367,985						
	6,360,018		4,632,497		1,400,642		618,999		0				
	Subtotal												
	Total		6,346,285		1,928,778		847,989		773,970				
SUMMARY													
COLL. OF MTRD DISCHRG													
TRUNK SEWERS	1,313,861		491,816		149,552		65,717		806,536				
LOCAL SEWERS	2,701,968		1,879,398		571,486		251,124		0				
	4,015,619		2,371,204		721,038		316,841		806,536				
	Subtotal												
COLLECTION OF I/I	5,892,261		3,975,099		1,208,740		531,148		167,434				
	9,898,000		6,346,283		1,928,778		847,989		773,970				
	Total												
* Allocate 40.57% of total sewer maintenance cost to meter discharge and 59.43% to the allocation of I/I													

SCHEDULE 1
ALLOCATION OF ANNUAL DEBT SERVICE TO
VOLUME, B.O.D. AND SUSPENDED SOLIDS

EXISTING DEBT	Annual		VOLUME	B.O.D.	S.S.
	Requirements				
All User Classes					
	Subtotal	13,549,495	6,650,742	3,164,294	3,734,459
LOCAL ONLY					
	Subtotal	2,100,557	2,100,557	\$.	\$.
	Total Debt	15,650,051			

SCHEDULE 5
ALLOCATION OF ANNUAL DEBT REQUIREMENTS
TO METERED DISCHARGE & INFLOW/INFILTRATION

EXISTING DEBT VOLUME	Annual Requirements	METERED DISCHARGE		INFLOW/INFILTRATION	
		%	\$	%	\$
B.O.D.	8,751,298	40.57	3,550,565	59.43	5,200,733
S.S.	3,164,294	100.00	3,164,294	0.00	0
	3,734,459	93.86	3,504,986	6.14	229,473
Total Debt	15,650,051		10,219,845		5,430,206

SCHEDULE 5A
ALLOCATION OF ANNUAL DEBT REQUIREMENTS
TO METERED DISCHARGE & INFLOW/INFILTRATION

EXISTING DEBT VOLUME	Annual Requirements	METERED DISCHARGE		INFLOW/INFILTRATION	
		%	\$	%	\$
B.O.D.	6,650,742	40.57	2,698,330	59.43	3,952,412
S.S.	3,164,294	100.00	3,164,294	0.00	0
	3,734,459	93.86	3,504,986	6.14	229,473
Subtotal	13,549,495		9,367,610		4,181,885
LOCAL ONLY					
B.O.D.	2,100,557	40.57	852,235	59.43	1,248,322
S.S.	-	100.00	-	0.00	-
	-	93.86	-	6.14	-
Total	15,650,051		10,219,845		5,430,207

SCHEDULE 5
ALLOCATION OF ANNUAL WATER REQUIREMENTS TO USER CLASSES

EXISTING DEBT VOLUME	Annual Requirements	RESIDENTIAL		COMMERCIAL		INDUSTRIAL		MSTR INTD SUBURBAN	
		%	\$	%	\$	%	\$	%	\$
METERED DISCHARGE INFLOW/INFILTRATION	2,698,330	37.44	1,010,248	11.38	307,197	5.00	134,980	46.17	1,245,895
B.O.D.	3,952,412	63.50	2,509,915	19.31	763,218	8.49	335,376	8.70	343,903
METERED DISCHARGE INFLOW/INFILTRATION	3,164,294	31.68	1,002,544	17.24	545,829	9.47	289,648	41.61	1,316,572
SUSPENDED SOLIDS	0								0
METERED DISCHARGE INFLOW/INFILTRATION	3,504,986	34.48	1,208,356	20.97	734,876	12.45	436,228	32.11	1,125,526
LOCAL (AKRON ONLY)	229,473	63.50	145,723	19.31	44,312	8.49	19,472	8.70	19,987
METERED DISCHARGE INFLOW/INFILTRATION	852,235	69.56	592,776	21.15	180,252	9.29	79,207	0	0
Local Debt	1,248,322	69.56	868,277	21.15	264,026	9.29	116,019	0	0
Total Debt	13,690,052		7,337,839		2,838,410		1,420,940		4,051,863
Local Debt	2,100,557		1,461,053		444,278		195,226		0
Total Less Local Debt	13,548,495		5,876,786		2,394,132		1,225,714		4,051,863

ALLOCATION OF MASTER METERED SUBURBAN													
EXISTING DEBT VOLUME	Annual Requirements	CUYAHOGA FALLS		MONTROSE		MUD BROOK		LAKEMORE		TALLMADGE		SPRINGFIELD	
		%	\$	%	\$	%	\$	%	\$	%	\$	%	\$
B.O.D.	1,245,895	19.83	247,112	7.75	96,509	39.75	495,191	6.35	79,124	16.98	211,533	9.34	116,424
S.S.	1,316,572	23.73	312,449	9.84	128,546	47.15	620,738	3.35	44,116	10.25	134,929	5.68	74,784
WI	1,125,526	21.86	246,049	7.31	82,222	50.32	566,322	3.41	38,354	11.47	129,060	5.64	63,520
Total	363,870	19.83	72,170	7.75	28,186	39.75	144,624	6.35	23,109	16.98	61,779	9.34	34,002
Total	4,051,863		877,780		396,463		1,826,875		184,703		537,301		288,740

**SCHEDULE 5
WASTEWATER REVENUE**

		OM & REPLACEMENT					MSTR WTRD		
NETTED DISCHARGE	AMOUNT	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	SUBURBAN				
WASTE TREATMENT (O/M)									
VOLUME B.O.D. S.S.	4,187,896	1,587,352	478,795	209,511	1,938,888				
	5,798,517	1,833,977	987,950	548,154	2,408,437				
	6,102,815	2,789,172	1,890,894	1,008,471	2,801,887				
	Subtotal	18,079,267	6,195,301	3,173,518	1,766,136			6,944,112	
WASTE TREATMENT (REPLACEMENT)									
VOLUME B.O.D. S.S.	1,388,829	523,718	159,253	69,979	645,679				
	108,675	34,432	18,736	10,291	45,217				
	40,872	14,091	8,589	5,087	18,185				
	Subtotal	1,548,578	572,241	186,568	85,357			704,221	
TOTAL O/M & REPLACEMENT	19,627,845	6,767,542	3,360,177	1,851,493	7,648,333				
WASTE COLLECTION (O/M)									
TRUNK SEWERS LOCAL SEWERS	1,048,808	392,396	119,391	52,459	484,172				
	1,832,184	1,274,385	387,516	170,283	0				
	Subtotal	2,880,992	1,666,781	506,887	222,742			484,172	
WASTE COLLECTION (REPLACEMENT)									
TRUNK SEWERS LOCAL SEWERS	1,919,822	491,318	149,562	66,717	808,596				
	2,701,998	1,879,388	571,486	251,124	0				
	Subtotal	4,015,619	2,371,204	721,038	318,241			608,596	
TOTAL O/M & REPLACEMENT	6,906,471	4,038,186	1,227,825	539,583	1,090,768				
INFLOW/FILTRATION									
COLLECTION (O/M)									
TRUNKS LOCALS	1,536,062	975,494	296,620	130,342	133,658			133,658	
	2,883,824	1,888,817	567,663	248,444	0			0	
TREATMENT (O/M)									
VOLUME SUSPENDED SOLIDS	6,134,605	3,895,809	1,194,842	520,580	539,794				
	530,059	338,805	102,335	44,971	46,121				
	Subtotal O/M	10,884,678	7,017,485	2,151,280	945,323			713,871	
COLLECTION (REPLACEMENT)									
TRUNKS LOCALS	6,883,331	3,878,059	1,208,740	531,148	167,434				
	1,924,297	1,221,980	371,584	163,283	167,434				
	Subtotal	3,958,080	2,753,089	837,168	367,865				
TREATMENT (REPLACEMENT)									
VOLUME SUSPENDED SOLIDS	2,048,950	1,301,152	395,656	173,861	178,281				
	2,676	1,689	517	227	239				
	Subtotal Replacement	7,334,007	5,277,510	1,604,813	705,285			345,946	
TOTAL O/M REPLACEMENT IN	19,818,877	12,382,805	3,756,193	1,688,889	1,090,818				

**SCHEDULE 7
SUMMARY OF ALLOCATIONS
TOTAL COST SUMMARY**

	AMOUNT	RESIDENTIAL	COMMERCIAL	INDUSTRIAL	MSTR MTRD SUBURBAN
WASTE TREATMENT	19,627,643	6,767,642	3,360,177	1,851,493	7,648,333
WASTE COLLECTION	6,886,411	4,038,185	1,227,935	589,583	1,090,708
Subtotal	26,524,054	10,805,827	4,588,112	2,391,076	8,739,041
COLLECTION & TREATMENT OF I/I	18,818,877	12,352,605	3,756,183	1,650,559	1,059,519
Subtotal	45,342,931	23,158,432	8,344,305	4,041,635	9,798,560
OTHER COSTS					
FIELD MONITORING	557,940			400,789	157,151
DEBT SERVICE - EXISTING DEBT					
All USERS DEBT	19,549,495	5,876,786	2,395,132	1,225,714	4,051,869
LOCAL ONLY DEBT	2,100,557	1,481,053	444,278	195,226	0
TOTAL DEBT	15,650,052	7,337,839	2,839,410	1,420,940	4,051,869
Subtotal	61,550,923	30,496,271	11,183,715	5,863,364	14,007,574
TOTAL REVENUE REQUIREMENT	61,550,923				

SCHEDULE 8
COMPUTATION OF UNIT COST FOR TREATING MASTER METTERED SUBURBAN
VOLUME B.O.D. & SS (OMI) REPLACEMENT

VOLUME	LOADINGS		UNIT CHARGE
	OMI	REPLACEMENT	
		(COST ALLOCATION WORKSHEET)	
B.O.D.	2,467,482 +	824,160 /	4,882.50 = \$ 0.574 per 1,000 gallons
B.O.D.	5,788,517 +	108,675 /	19.80 = \$ 0.298 per # of BOD
S.S.	8,692,873 +	43,548 /	29.08 = \$ 0.298 per # of SS

SCHEDULE 9
COMPUTATION OF TOTAL RATE PER 1,000 GALS
OF BILLED DISCHARGE AT ASSIGNED LOADINGS

MASTER METERED SUBURBAN

TREATMENT		VOLUME	B.O.D.	S.S.									
		202	X		8.34	X	0.001	X	0.298	=	0.674		
		219	X		8.34	X	0.001	X	0.298	=	0.503		
											<u>1.722</u>		
SEWAGE COLLECTION													
TRUNK SEWERS													
FIELD MONITORING		617,828			+	773,970	/	4,883	=	0.285			
		157,151			/	4,883	X	1,000	=	0.032			
											<u>0.317</u>		
DEBT SERVICE													
CUYAHOGA FALLS													
MONTROSE		4,051,863	/			4,883	=	0.830					
MUD BROOK		4,051,863	/			4,883	=	0.830					
LAKEMORE		4,051,863	/			4,883	=	0.830					
TALLMADGE		4,051,863	/			4,883	=	0.830					
SPRINGFIELD		4,051,863	/			4,883	=	0.830					
TOTALS													
CUYAHOGA FALLS		-				2,869							
MONTROSE		-				2,869							
MUD BROOK		-				2,869							
LAKEMORE		-				2,869							
TALLMADGE		-				2,869							
SPRINGFIELD		-				2,869							

Schedule 10
 USER CHARGE RATES — MASTER METER SUBURBAN

Rate per 1,000 gallons

WASTE TREATMENT	CUYAHOGA				
	FALLS	MONTRÖSE	MUDBROOK	LAKEMORE	TALLMADGE
Volume	\$0.674	\$0.674	\$0.674	\$0.674	\$0.674
BOD	0.503	0.503	0.503	0.503	0.503
SS	0.545	0.545	0.545	0.545	0.545
Subtotal	\$1.722	\$1.722	\$1.722	\$1.722	\$1.722
Trunk Sewers	0.285	0.285	0.285	0.285	0.285
Field Monitoring	0.032	0.032	0.032	0.032	0.032
Total User Charges	\$2.039	\$2.039	\$2.039	\$2.039	\$2.039
Debt Service	0.830	0.830	0.830	0.830	0.830
Master Meter Rates - 2016	\$2.869	\$2.869	\$2.869	\$2.869	\$2.869

Schedule 11
 USER CHARGE RATES WITH 2015 TRUE UP AMOUNTS - MASTER METER SUBURBAN

	CUYAHOGA FALLS	MONTROSE	MUDEBROOK	LAKEMORE	TALLMADGE	SPRINGFIELD
2015 User Charge Revenue (in thousand \$)	\$2,570	\$997	\$4,646	\$611	\$1,657	-
2015 ACTUAL COST	(3,476)	(1,102)	(5,832)	(739)	(2,043)	-
Over (Under) Payment	(906)	(165)	(1,186)	(122)	(386)	-
Average Discharge 2012 - 2015 (MG/Year)	968	378	1,941	310	829	456
2015 True Up Rates	\$0.936	\$0.436	\$0.611	\$0.393	\$0.466	\$0.000
Master Meter Rates - 2016	\$2,869	\$2,869	\$2,869	\$2,869	\$2,869	\$2,869
Total Master Meter Charges - 2016	\$3,804	\$3,305	\$3,480	\$3,262	\$3,335	\$2,869

Rate per 1,000 gallons

Schedule 12

PROTECTED 4-YEAR RATE SCHEDULE — MASTER METER SUBURBAN

Rate per 1,000 gallons

	CUYAHOGA FALLS	MONTROSE	MUDBROOK	LAKEMORE	TALLMADGE	SPRINGFIELD
Master Meter Rates - 2016	\$2,869	\$2,869	\$2,869	\$2,869	\$2,869	\$2,869
2015 True Up Rates	\$0.936	\$0.436	\$0.611	\$0.393	\$0.466	\$0.000
Total Master Meter Charges - 2016	\$3,804	\$3,305	\$3,480	\$3,262	\$3,335	\$2,869
Master Meter Rate 2017	\$3,041	\$3,041	\$3,041	\$3,041	\$3,041	\$3,041
Master Meter Rate 2018	\$3,102	\$3,102	\$3,102	\$3,102	\$3,102	\$3,102
Master Meter Rate 2019	\$3,183	\$3,183	\$3,183	\$3,183	\$3,183	\$3,183