



CITY OF GROVE CITY, OHIO

**CAPACITY, MANAGEMENT, OPERATION, AND
MAINTENANCE (CMOM) PROGRAM**

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1.0 INTRODUCTION

The City of Grove City has prepared a Capacity, Management, Operation, and Maintenance (CMOM) program designed to optimize the performance and maintenance of the public sanitary sewer collection system within the City's jurisdiction. In accordance with US EPA guidelines, the CMOM program will establish best management practices for major factors contributing to the functionality of the system as follows:

- A) Department Organization
- B) Overflow Emergency Response Plans
- C) Legal Authority
- D) Collection System Operation and Monitoring Strategies
- E) System Maintenance
- F) System Capacity Evaluation
- G) System Inspection and Repair

The capacity of a sanitary sewer collection system is dependent on the size of its components. The size of system components is determined based upon an analysis of the contributory flows into the system plus a factor of growth. Land use of the projected service areas and designed leakage rates are considered when sizing a system based on standards in effect at the time of design. Over time the basis of these flows may change resulting in discrepancies between the design flows and monitored flows. Changes in population densities, deterioration of the system integrity and illicit storm water connections can contribute to these discrepancies, leading to system overflows.

Failure to maintain the collection system can result in overflows and capacity deficiencies irrespective of flow increases. Accumulation of foreign matter such as grease, roots, and debris can lead to blockages with the potential to affect localized areas in the system. Collapsed pipes and other structural failures can also cause blockages within the collection system. A regular inspection and maintenance program is appropriate to mitigate and prevent the effects of such blockages.

Sanitary sewer overflows (SSOs) release untreated sewerage into surface waters and can lead to environmental impacts such as metal contamination and fish kills. It is imperative that operators of sanitary sewer collection systems implement a set of best management practices (BMPs) to prevent and mitigate the effects of overflows, regardless of cause. This CMOM program will guide the City of Grove City's efforts to maintain the capacity of their collection system, thereby minimizing and mitigating the effects of SSOs.



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2.0 COLLECTION SYSTEM DESCRIPTION

The City of Grove City owns and maintains a public wastewater collection system in order to provide its residents with reliable sewerage service. The system consists of approximately 162.5 miles of gravity sewers and 4 miles of force mains serving approximately 7,718 acres currently, with approximately 9,470 acres that can be served in the future. The City of Grove City has an agreement with the City of Columbus that allows Grove City to outlet its wastewater into Columbus's sanitary sewer at 5 different locations. The City of Columbus is then responsible for conveying the wastewater to its plants for treatment. As a term of this agreement, the City of Grove City is not allowed to construct its own wastewater treatment plant. The City currently maintains a sewer atlas and record plan library to inventory the sewers and active connections to the sewer system. The City of Grove City also has a web-based GIS system which links a map of the sewer system to construction plans. The GIS is an accurate representation of the system. There are no recurring SSOs or WIBs in Grove City's system. Further information on the connections to the Columbus system, sewer sheds, and system characteristics can be found in the various Flow Monitoring Program Reports, which are available on request.



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3.0 COLLECTION SYSTEM MANAGEMENT

3.1 District Organization

Talented staff, strong leadership, and well-defined job descriptions are essential to building a motivated and competent workforce within the Public Service Department. The Department maintains an organizational structure chart in order to delineate job responsibilities, outline opportunities for advancement, ensure proper management/staff ratios, and to ensure that adequate staff is assigned to expedite the goals of the Department. Employees are responsible for duties outside of the CMOM activities described herein, such as road repair, storm sewer maintenance, snow removal, grounds maintenance, vehicle maintenance, etc.

The organizational chart is used as a planning tool when evaluating budgeting and staffing needs each year. The Department is highly selective when hiring new employees and vacancies are generally filled within 30 to 60 days once the position is opened for applications. This selectivity requires extended vacancies but allows the department to build a strong team with a high level of skill. The Department's organizational chart is included in Appendix A of this document.

3.2 Job Descriptions

Job descriptions are essential in defining the requirements and responsibilities of each position in the department's organizational structure. Written job descriptions are on file for employees within the department and they include the nature of work to be performed, required qualifications, physical expectations, supervisory responsibilities, etc. The job descriptions are reviewed periodically and revised as needed to stay current with industry demands and expectations. Employees are expected to comply with the changing expectations by taking advantage of available continuing education programs and staying current with available technologies. The failure to meet basic requirements of an employee's assigned tasks as defined in the job descriptions may be reason for termination, demotion, or other disciplinary action. Example job descriptions are included in Appendix B.

3.3 Training

All qualified employees are encouraged to obtain the required number of professional/trade development hours each year to stay current on the latest technologies and to maintain their professional licenses. This training can include on- or off-site training, college or vocational course work, or industry certifications (such as NASSCO or OSHA certification). Employees who are required to obtain continuing education or professional development hours for their license are responsible for confirming if a course is acceptable to the agency or board that oversees licensure before completing the course. Potential courses could include routine sewer line maintenance, traffic control, environmental regulations, safety regulations, laboratory testing procedures, public relations, sewer overflow response, pipe rehabilitation technologies, CPR, vendor presentations, etc. All courses adhere to standard curriculums where applicable.

Employees are required to complete OSHA confined space entry training if applicable to their position. The City coordinates with the Bureau of Workers Compensation (BWC) to provide its



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employees with the training offered by these organizations. The Service Director or his/her designee will approve the course prior to attendance.

3.4 Customer Service

Customer service (including public communication) is a critical function of the Public Service Department. The department has developed standard procedures and communication channels when exchanging information with local governments, community groups, media, schools, and other organized groups. Administrative staff can seek guidance from sample correspondence and scripts when addressing these groups if appropriate. Because the City is small, the Public Service Department is in constant contact with other divisions, such as Finance, Administration, Police, Development, etc. Additionally, the Public Service Department holds all-staff meetings on a monthly basis.

When members of the general public need to be notified of a construction project, infrastructure testing, or a public outreach program public meetings, press releases, and curb cans are the preferred methods of disseminating information. Letters are also used in certain situations at the discretion of the Public Service Department. Information that is general in nature is distributed via email and on the City Website. The Department communicates with the general public on a regular basis and has developed standard procedures for documentation of these interactions.

Customer orders are processed through the Grove City Service Request Center, an online database and port for customers and City personnel to make service requests from the Department. The Request Center is available online at <http://www.grovecityohio.gov/SRC/>. The Service Request Center directs users through a series of options that record the location, type of service requested, contact information, comments, etc. Users may request that a follow up phone call or email be made when the service has been completed. The system is shared with all of Grove City's services so customers can report issues regarding fire hydrants, mosquito control, ponds, snow and ice, traffic controls, etc. in addition to sewer system related issues. Electronic copies of the work orders are maintained indefinitely in a computer database. These records are considered when prioritizing the sewer system capacity evaluation activities such as smoke testing, CCTV testing, flow monitoring, etc., as described in Section 6 of this document. Complaints are primarily basement flooding complaints. Basement flooding is due primarily to problems with service laterals but is sometimes due to issues with the public sewer, which are corrected as quickly as possible.

3.5 Information Management

Efficient management of the collection system is dependent on the management of information pertaining to system components, work activities, and inspection/study outcomes. To this end, the City of Grove City has contracted with a consultant for the development of a comprehensive GIS information management system that tracks system components, records, condition data, repair data, etc. The GIS system integrates the current practices of the City and streamlines the management and accessibility of information. The GIS system is designed to be updated on a regular basis as time permits.

The City also maintains electronic copies of work orders, overflow records, etc. in the electronic Service Request Center database for a permanent record of these activities. Records document



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critical information such as the date/time, name of person making the complaint or work order, contact information, a description of the incident or the work requested, order number, employee responsible for the work, a description of the work completed, and other relevant information. Staff also prepares video inspections and manhole inspection forms when applicable.

3.6 Overflow Emergency Response Plan (OERP)

The City of Grove City's Sanitary Overflow Emergency Response Plan (OERP) was put in to effect on August 10, 2009. The OERP contains the City's standard procedure for responding to Sanitary Sewer Overflows (SSO). The document covers the City's standard response plan, public advisory procedures, regulatory agency notification procedures, and media notification procedures. The procedures described in the OERP treat all SSOs similarly, regardless of size. It outlines the procedures for five (5) example scenarios (including blockage and overflowing manholes) to clarify the interpretation of the text.

The OERP contains standardized forms for reporting SSOs to regulatory agencies. The form records information such as the date of the incident, the source of the complaint, location, response time, response actions, estimated volume of the overflow, etc. This form is shared with regulatory agencies such as the Ohio Environmental Protection Agency and the Franklin County Board of Health.

The City does not have any posted SSO locations because there are no recurring overflows in the community. The OERP contains signage required to identify SSO locations and door hangers to distribute to nearby residences in the event of an overflow.

3.7 Legal Authority

The City of Grove City has established the appropriate ordinances to provide legal authority over its wastewater collection system by way of an agreement with the City of Columbus. The agreement details the conditions of use of the system (including allowable discharges and pollutant concentrations), details the rate structure, and provides construction, inspection, and permitting requirements.

The agreement with Columbus allows Grove City to discharge its wastewater into the Columbus sewer system. The two entities entered into the current agreement on March 20, 2001. The agreement was authorized under City of Grove City Ordinance No. C-15-01 and City of Columbus Ordinance No. 0137-01 and requires Grove City to be in compliance with Chapters 1145 and 1147 of the Columbus City Code. Under Section 3 of the Agreement the term is set at 50 years (expiring in 2051). Section 8 establishes the protocol for termination of the agreement. All sewerage from the City of Grove City flows into the City of Columbus collection system and is ultimately treated at Columbus's wastewater facilities.

The agreement between Grove City and Columbus contains provisions regarding the area served, design standards, water quality standards, etc., many of which refer back to the City of Columbus Codified Ordinances. The agreement limits the area which Grove City may discharge into the Columbus waste water collection system to its corporate boundaries (or areas annexed into Grove City provided that the properties lie within the potential expansion area depicted on the Sanitary Sewer Service Area Exhibit which is included in the agreement) under Section 1 (h). The



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agreement does not obligate Columbus to provide service to areas outside of those shown on the exhibit should they be annexed into Grove City, see Section 4.2. Sewers and services are to be permitted, built, and inspected in accordance with the applicable City of Columbus standards under Section 1 (i, j, & k). Pollutant limits are set by Columbus City Code Section 1145, which establishes the Standards of Discharge; this is imposed in Section 1 (d) of Grove City's agreement. Section 2.1 of the agreement also gives Columbus the authority to inspect and sample waste water from industrial establishments in the City of Grove City. Section 1 (e & f) of the agreement prohibits the discharge of acids, chemicals, kerosene, gasoline, benzene, naphtha, or other explosive or corrosive substance that might damage or interfere with the maintenance of the sanitary sewer conveyance system. Additional prohibited discharges are listed in Columbus City Code Section 1145.20. Section 1 (c) prohibits storm water connections (roof leaders, storm drains, house drains, etc.) to the sanitary sewer system. Regulations for fats, oils, and grease (FOG), infiltration and inflow, building structures over the sewer lines, defects in private laterals, sump pumps, etc. are dealt with in Section 1145 of the Columbus City Codes.

The City of Grove City also has an agreement with the Village of Urbancrest, which allows Urbancrest to discharge flows into the Grove City sanitary sewer system, authorized by the City of Grove City Resolution CR-75-93 and Urbancrest Resolution 93-25. The two entities entered into the agreement in September 1993 which has a 30-year term.



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4.0 COLLECTION SYSTEM OPERATION

4.1 Budgeting

Sewer usage rates in the City of Grove City are determined by the City of Columbus per the Sewage Disposal Service Agreement described in Section 3.7 of this CMOM. The City of Columbus updates the rates effective on January 1st of each calendar year, please see Appendix D for the 2011 rates as published by the City of Columbus. The rates for combined sanitary, water, and storm sewer service have increased approximately 85% in the last six years. According to statements made by Columbus's Public Utility Director, and published by The Columbus Dispatch on October 17, 2010, the rates are expected to rise at an annual rate of 6%-7% for the foreseeable future.

The Grove City collection system is funded through the Sewer Enterprise Fund and Operation & Maintenance Budgets. The annual budget makes clear distinction in the funding for the various infrastructure components such as the collection system, water, storm sewers, etc. Sewer budgeting is itemized by major categories such as salaries, supplies and materials, contract services, and capital improvements. Annual revenue for the sewer collection system is generated through service charges and tapping charges. The annual City wide CIP budget varied from \$1,986,000 to \$11,972,610 in 2009-2012. The annual Operations and Maintenance budget is estimated at \$1,122,390 annually. Decisions regarding the expenditure of funds are prioritized based on public safety needs, field observations, work orders, and SSES activities. The departmental managers are given current budgeting data and are involved in the preparation of the annual budget for the department. Major initiatives for the upcoming years include the Stringtown Road Relief Sewer, Westgrove Pump Station Abandonment/Mulberry Run Extension, and various potential developer reimbursed projects throughout the community. The annual budget also includes an allowance of \$350,000 annually for sewer rehabilitation and replacement projects that are determined by SSES and CMOM activities each year. A fund for equipment replacement is included in each year's budget. In 2011 approximately 7.6% of the annual budget was spent on materials, equipment, and contracting services associated with maintenance of the sewer system. This figure does not include the portion of departmental salaries that went towards maintenance. Annual budgets are public record and available on request.

4.2 Permit Compliance

The City of Grove City has an inter-municipal agreement in place with the City of Columbus for the discharge of its sanitary sewerage. The current agreement was enacted in 2001 (See Grove City Ordinance No. C-15-01). The agreement allows the City of Grove City to discharge its sanitary sewer flow into the Columbus System, which is ultimately treated at one of two plants south of Columbus. See Section 3.7 of this document for further detail.

The City of Grove City Codified Ordinances under Section 939.09 Grease, Oil and Sand Interceptors, states that "...interceptors shall be provided when, in the opinion of the Director of Public Service, they are necessary for the proper handling of liquid wastes containing grease in excessive amounts...". The sewer use agreement with the City of Columbus addresses grease indirectly by referencing the City of Columbus Code Section 1145, which describes the requirements for interceptors under Section 1145.05. All food service establishments in the City



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of Columbus and its sewer contract areas are required to comply with the fats, oils, and grease (FOG) program. A Director's Rule from the Columbus Department of Public Utilities (see Rules and Regulations No. 05-02, May 19, 2005) requires that all food service establishments complete a Grease Best Management Plan (BMP) that outlines how the establishment will prevent FOGs from entering the public sewer system. The BMPs must include a list of FOG sources, practices for minimizing FOG discharges, inspection and maintenance procedures, etc. The BMPs must also include a cleaning log for grease traps that include the date cleaned, gallons of grease removed, and the condition of the trap. These records must be retained for a minimum of 3 years and must be produced by the business owner upon request. The City of Grove City learns of new grease traps when building and plumbing permits are applied for or grease problems are experienced in a sewer. Grease traps in the City of Grove City are inspected by the Building Division. The standard City of Columbus BMP form is available online at:

[http://staging.columbus.gov/uploadedFiles/Public Utilities/Sewer/Programs/FOG/BMPandLog050505.pdf](http://staging.columbus.gov/uploadedFiles/Public%20Utilities/Sewer/Programs/FOG/BMPandLog050505.pdf)

An ordinance regarding prohibition of discharges can be found in the City of Grove City Codified Ordinances under section 939 Sewer Connections, Fees, Permits and Billings. This section prohibits the connection of roof, foundation, roadway, or other surface drainage to the public sanitary sewer under Section 939.05 Storm Water Prohibited in Sanitary Sewers. Section 939.04, Connection With Public Sewer Required, requires that all buildings or properties in the City being used for human occupancy, employment, or recreation to connect their facilities to the public sewer system, provided that sewer service is available within 100 feet of the property line.

4.3 Water Quality Monitoring

The City of Grove City is in an agreement with the City of Columbus for the treatment of its wastewater flow. Under the agreement, Grove City's wastewater is outlet to Columbus's sewer system and flows through the Columbus system to one of their treatment plants. The City of Columbus is responsible for the required water quality monitoring at the treatment plants. For more detail on Columbus's water quality program, please refer to their CMOM documents.

4.4 Hydrogen Sulfide Monitoring & Control

Hydrogen Sulfide gas can be produced in sewer systems by the decomposition of sulfur containing materials in the sewage in the absence of oxygen. The gas smells of rotten eggs and can be detected with special gas detectors. It is generally produced in long sections of force mains where oxygen depletion occurs. When the sewerage is discharged into a structure, turbulent conditions can release the gas into the atmosphere. The presence of the gas causes the formation of sulfuric acid in sewer systems and deteriorates the infrastructure. To minimize the development of hydrogen sulfide, the design standards limit the velocity of sewage in the pipe and minimize the drop across structures to reduce turbulence in the system. For current design criteria refer to the City of Columbus Sanitary Sewer Design Manual.

The City does not currently experience any problems with hydrogen sulfide or related odor complaints. The City will deal with hydrogen sulfide problems using standard methods such as aeration, activated charcoal, chemical additives, etc. should the need develop.



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4.5 Safety Program

The City of Grove City has an appointed Safety Committee responsible for bringing City employees together to achieve and maintain a safe and healthy workplace. The Committee recommends procedures for safety issues that employees are likely to encounter while on the job, including, but not limited to, confined space entry, traffic control, chemical handling, trenching and excavations, etc. The Committee reviews standard policies published by organizations such as OSHA. Written procedures for lockout/tagout, MSDS, chemical handling, trenching and excavations, biological hazards, traffic control, etc., are maintained by the Public Service Department. The Committee meets quarterly to identify needed safety policies for City employees and evaluates its standards on an annual basis. The Public Service Department is responsible for seeing that any required safety equipment is available to employees of the department. Equipment includes, but is not limited to, rubber gloves, confined space ventilation equipment; hard hats, safety glasses, rubber boots; antibacterial soap and first aid kit; tripods or non-entry rescue equipment; fire extinguishers; equipment to enter manholes; portable crane/hoist; atmospheric testing equipment and gas detectors; oxygen sensors; H₂S (hydrogen sulfide) monitors; full body harness; protective clothing; traffic/public access control equipment; fiberglass or wooden ladders for electrical work; respirators; methane gas or OVA analyzer; LEL metering, etc.

The Director of Public Service is responsible for providing safety training to employees. Safety training may be supplied by qualified employees of the Public Service Department or by qualified consultants. The Committee ensures that employees are properly trained in CPR-AED, Ohio LTAP, IMSA, etc. Field crews attend any training sessions in person, or by way of video sessions when necessary. The Safety Committee also maintains records regarding the training programs it arranges and all subsequent licensing and certifications.

In the event of an injury an investigation is conducted and an incident form is completed and filed with the Bureau of Workers Compensation (BWC) and included in the required annual report to the BWC. There have been two lost time injuries in the past 5 years (2007-2011).

4.6 Emergency Preparedness & Response

The City of Grove City prepares for emergency situations by establishing proper procedures and maintaining an inventory of supplies that enable them to react quickly. The City has a Sanitary Overflow Emergency Response Plan (OERP) to outline the procedure for responding to these events. The OERP is reviewed annually and revised as needed, most commonly for personnel and contact information changes.

The OERP establishes procedures and responsibilities during a variety of overflow scenarios (Water-in-basement, overflowing manholes, unknown discharges). The document includes a line by line procedure for assessing and dealing with each scenario, personnel requirements and responsibilities, and required equipment for each. It also details the notification procedures for the media and regulatory agencies (including standard EPA forms). All scenarios require the presence of a Maintenance Superintendent and Supervisor who have access to the emergency equipment after hours. Each scenario details the procedure for isolating the overflow with sandbags or barricades to prevent the overflow from entering surface waters or the storm sewer system (and to restrict public access to the overflow). Signage and door hangers for public



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notification are included in the appendices of the OERP. The Sewerage Overflow Report Form included in the OERP follows EPA guidelines and contains information such as the date of the incident, location, receiving waters, a description of the incident and response, how and when the overflow was stopped, estimated volume, duration of the overflow, etc.

The City uses the ongoing flow monitoring and SSES efforts as a means of assessing the vulnerability of the system to overflow events. Areas that are found to be susceptible to problems (areas having broken pipes, debris, etc.) are identified during the SSES process and scheduled for corrective measures immediately or programmatically based on the condition of the infrastructure. Those areas that are found to be deteriorating but do not warrant and immediate fix are monitored until such time as repairs are scheduled and performed under the annual CIP program.

4.7 Modeling

The City of Grove City has contracted with a consultant to model the two largest sewer sheds in their system (the Grant Run and Republican Run sewer sheds). These models were created to evaluate the sewer sheds which have the largest potential for development in order to identify and prevent future capacity issues. The results of the model are consistent with the observed field conditions. The models were developed using the PCSWMM modeling software and are available for future modifications should there be any changes to the future tributary areas or development characteristics of the sewer sheds. The City has not developed a model of its entire system.

Continued investigations and improvements will proceed in accordance with this CMOM document and the schedules imposed by the Ohio EPA. The City will maintain its system in compliance with the maintenance, construction, and design practices contained herein. Should increased levels of I/I and capacity concerns continue to be observed after these improvements, then the City will develop a system model as a tool to address these problems.

4.8 Mapping

The City of Grove City contracts with a consultant for the hosting of a GIS database of its infrastructure and record plan information. The system is web based and is accessed with a user name and password at <http://gcgis.emht.com/>. The system displays infrastructure elements such as water lines, storm sewers, sanitary sewers, etc. and each element is linked to the record plans depicting the selected element. The system is accessible to the employees of Grove City and any consultants that require ready access to the information.

Record plans are entered into the system after construction has occurred and discrepancies noted by the field crews have been reflected on the plans. The record plans include a scale, north arrow, date, street names, center lines, property lines, easement lines, service area, manholes, pipe locations, building laterals, pipe sizes and slopes, invert elevations, length of pipe, manhole type, manhole invert and casting elevations, etc. in accordance with the current design standards. Manholes and sewer lines are identified based on a manhole numbering system that assigns a unique number to each structure in the sanitary sewer system. The numbers are assigned based on the manholes location within the historical Franklin County Atlas Grid.

4.9 Engineering



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Sewers in the City of Grove City are required to be designed in accordance with all standards and practices established by the City of Columbus (See the Sewer Agreement, Section 1 (i & j)). Under this requirement, Grove City is responsible for seeing that the plans for sewer construction in their service area adhere to the current edition of the City of Columbus Construction & Material Specifications, the City of Columbus Sanitary Sewer Design Manual, and all other technical bulletins and rules and regulations associated therewith. Conformance with Columbus standards assures that all materials and products tributary to the Columbus wastewater system are held to the same standards of quality. Grove City also requires a set of their own standard notes, standard drawings, and supplemental specifications in addition to the Columbus requirements.

Plans for sanitary sewers in the City of Grove City are reviewed and approved according to a standard procedure adopted by Grove City and the City of Columbus. Plans are submitted to Grove City for a technical review. A consulting engineer is employed by the City of Grove City to perform a technical review of the plans. After the City's engineering consultant is satisfied that the plans are sound with regard to technical and regulatory requirements he/she will sign the plans as the acting City Engineer. Following this approval the Engineer forwards the plans to Grove City for the City Administrator, Mayor, and Director of Public Safety to sign. After all of these signatures are collected the mylar plan set is sent to the City of Columbus so that they may review the plans. Once Columbus is satisfied that their comments have been addressed the plans are sent to the Administrator of the Division of Sewerage and Drainage and the Director of Public Utilities for signature. Grove City staff does not conduct a technical review of the plans, they serve as facilitators of the process.

In general, Grove City is required to follow the design and construction standards set forth by the City of Columbus as a condition of the Sewer Use Agreement (See Section 3.7 for further detail). Sewers are designed to accommodate flows as calculated according to the City of Columbus Sanitary Sewer Design Manual Section III "Design Requirements and Criteria". These requirements include the methods for calculating sewer flows from the service area in order to ensure that all sewers are adequate for carrying all anticipated future upstream development. Capacity is to be confirmed by the design engineer using standard design calculation methodology for all new construction.

New sewers are typically constructed by contractors hired by developers, property owners, or in some cases Grove City or the City of Columbus. When Grove City or Columbus is responsible for construction the project is put out to bid in compliance with all local, state, and federal requirements for publically bid projects. All sanitary sewer construction projects in the City of Grove City are inspected by a consultant who serves as the City Engineer. They are typically present on construction sites for 100% of the project duration. The consultant's inspection staff works under the direction of a registered professional engineer to confirm that the construction is done in accordance with the relevant standards. Construction inspection and testing standards are contained in Section 900 of the City of Columbus Construction and Material Specifications along with any additional requirements included in the plan notes or supplemental specifications. Testing includes, but is not limited to, infiltration and exfiltration tests, deflection testing, manhole leakage testing, mandrel testing, etc. Sewers are documented by CCTV at the completion of construction. New sewer construction must be generally warrantied for a one year period at the end of which a warranty inspection is required to confirm the integrity of the work. Force mains are hydrostatically tested per Section 800 of the Columbus Construction and Material Specifications. Small wet wells are tested by the same methods as manholes. The suppliers of the



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pumps are required to test the pumps prior to delivery to the project site, they are to provide Grove City with the results of their tests. Manufacturers are also expected to attend a start up meeting at which they train City personnel on the use/maintenance of the system and then fill the wet well and start up the pumps.

Private service laterals are shown on as-built plans and are required to be constructed in accordance with Columbus standards. They are constructed at a minimum of ¼" per foot (2.08%) and sized per the pertinent building codes.

4.10 Pump Station Operation & Inspection

The City of Grove City has six pump stations in the collection system that it is responsible for maintaining. The pump stations have been designed to be unmanned and each features sufficient redundancy for continued operation in the event of a pump failure. The stations have been designed with operating levels that limit the number of pump starts and stops to maximize the life of the pumps. The lead, lag, and backup pumps are rotated regularly to maximize the useful life of all the pumps. All stations have a generator hook up so that the operation can continue in the event of a power outage. All manufacturer's specifications and manuals are maintained at the Public Service Department.

The Public Service Department has personnel that are trained to maintain and monitor the pump stations. These employees are full time and are able to keep up with the demands of the stations. A total of 312 hours is estimated to be spent each year on the pump station inspection and upkeep.

The pump stations are inspected regularly by Public Service Department personnel in accordance with the Standard Operating Procedures (SOPs) and Standard Maintenance Procedures (SMPs) for each station. Inspections include a check of the well conditions, floats, controls, sounds, and dialers. Critical operating characteristics of each station are maintained within established criteria.

Lift stations are monitored by an automatic dialer system that alerts assigned services technicians if problems are detected. The dialers will automatically contact the on call technicians if a power outage is detected or if high water levels are detected. In the event that a call is received the technician reports to the station with one of the portable electric generators, restores power to the station, and troubleshoots to determine and isolate the cause of the problem. The City does not own bypass equipment, so a contractor is contacted in the event that bypassing the pump station is required. There have been no failures to the force mains to date.



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5.0 COLLECTION SYSTEM MAINTENANCE

5.1 Maintenance Budgeting

One of the primary goals of this CMOM program is to control costs by ensuring the optimal operation of the public sanitary sewer utility. The policies contained herein are designed to maximize the operation of the system and minimize the long term maintenance cost of the system. Maintenance costs are tracked through the annual budget and maintenance costs are accounted for under the line items for Salaries, Supplies and Materials, and Contract Services (when performed by a contractor). Annual budgeting for these activities are based on purchase orders from previous years. The CMOM activities will be used to refine annual budgeted costs for maintenance, it is understood that these estimates may vary significantly from year to year depending on the outcome of the investigative work described herein. The Department uses competitive bidding for larger projects as a means to control costs.

5.2 Maintenance Planning and Scheduling

The City of Grove City is proactive in the maintenance of its wastewater collection system. The City recognizes that proper maintenance is crucial to managing infrastructure costs, preventing backups, maintaining compliance with the NPDES permit, and maintaining reasonable rates for its customers. In pursuit of this goal, the City is aggressive with the preventative maintenance goals for its wastewater collection system.

A schedule for preventative maintenance is being developed as an outcome of the ongoing manhole inspection, CCTV inspections, sewer cleaning, and flow monitoring programs described elsewhere in this document. These programs include a component for raising depressed manholes and replacing broken covers. The maintenance schedule is determined by the supervisor and is prioritized based on public complaints, pipe condition, public health, and public safety. The City currently anticipates that their crews spend 10% of their maintenance efforts on planned operations and 90% on unplanned operations. 75% of repair funds are spent on emergency repairs. The City maintenance staff is well trained and experienced so they have no trouble keeping up with wastewater maintenance duties. They keep pace with work orders and there is no significant maintenance backlog. Priorities are set by the Supervisor with regards to public safety when the workload requires such scheduling. There are no outstanding problems that require undue maintenance attention. Public Service personnel are also responsible for assisting with Right-of-Way and easement maintenance when needed. The Public Service Department also monitors street projects to ensure cost savings through combined work efforts with other departments.

The City maintains an inventory of key parts as described in Section 5.4 of this document. They also benefit from close proximity to the Columbus metropolitan area, which has ready access to major parts and contracting services.

The City is adequately staffed to handle the maintenance of the six pump stations in their system. City technicians are qualified to perform much of the mechanical and electrical maintenance of the pump stations. Occasionally contractors are hired to perform mechanical and electrical maintenance if needed. The City has established maintenance frequencies and standard



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maintenance procedures for all pump stations and has a formal procedure for replacing pump station equipment when it has reached its useful life.

5.3 Sewer Cleaning

The City of Grove City has adopted a routine schedule for cleaning sewer lines with the goal of unobstructed flow in the system and minimizing stoppages. The City has set a goal to clean approximately 5% of the sewers annually. Special consideration will be given to any lines that have been identified as having chronic problems during CCTV inspection activities or frequent reports of problems. The City experiences approximately 5-8 stoppages per year in its sewers on average. A notable decrease in the number of stoppages has been observed in recent years, due to the proactive programs of the Public Service Department. The causes of any stoppages have generally been roots, grease, or debris accumulated in the lines. Records of these events are kept in the Service Request Center database indefinitely. Records track the date and time of the incident, the cause, corrective measures, responding personnel, etc.

The City owns and operates its own cleaning equipment. Currently the City owns one jet truck with one trained crew that handles both preventative and maintenance cleaning as needed. The equipment is stationed at the service garage at 3262 Ventura Boulevard. The Public Service Department is able to keep pace with the cleaning of the system, so consultants are rarely used for these services. The field crews have responsibilities on other components of the City's infrastructure such as water lines, storm sewers, roadways, etc.

The City has a preventative root and grease control program that utilizes chemical cleaners to remove roots and grease from the system before blockages happen. The City uses liquid degreasers and enzyme bags to remove grease and roots from their sanitary sewer system. These products are applied as needed when field crews or CCTV consultants discover roots or grease deposits in the system. The use of these products has provided positive results for the City.

5.4 Parts Inventory

Efficient maintenance and repair operations rely on the availability of key parts and equipment. The City of Grove City maintains critical supplies and equipment at the service facility located at 3262 Ventura Boulevard. The inventory is tracked by the supervisor. The inventory includes supplies such as replacement covers, riser rings, gloves, tongs, root cutter, safety equipment, etc. that allow the department to operate smoothly and address minor issues quickly. Spare parts are kept on fleet vehicles when appropriate. Currently, the inventory is not large enough to warrant a detailed electronic tracking system. The parts inventory includes all the critical parts needed to ensure the uninterrupted operation of the pump stations.

The City benefits from the close proximity to the City of Columbus, which has ready access to major parts and contracting services. Due to the limited need for repair procedures, the City will contract out some maintenance operations such as point repairs as a cost saving measure. The proximity of Columbus also ensures that there is ample opportunity for salvage of equipment that becomes unnecessary or is placed out-of-service. Grove City keeps any salvaged parts that may be useful in the future as long as the storage or upkeep of such parts does not present an unwarranted burden.



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5.5 Equipment & Tools Management

Equipment and tools used for operation and maintenance activities are maintained by the Public Service Department at the service garage on Ventura Boulevard. Critical tools are kept in stock to ensure that all personnel have access to the necessary equipment for performance of their work duties. Additional equipment and tools are purchased as needed. The Department owns portable generators for use in situations where power is not readily available.

Equipment maintenance for major items is performed at the service garage. The Department employs one full time fleet maintenance supervisor who is assisted by other maintenance personnel as needed. It is the responsibility of the fleet mechanic to ensure that all equipment is kept in proper working order and is repaired in a timely fashion if any problems arise. In house staff is capable of providing a one day turnaround for most maintenance and repair issues. Small equipment is replaced on an as needed basis. Large equipment is purchased through a purchase order if it has not been planned into the budget and is required immediately.

When major new equipment is needed it must be formally placed on the City's Annual Budget. This is applicable to high dollar equipment such as trucks, radio systems, GPS equipment, computers, etc. New equipment requests are submitted to the Director and placed on the proposed Annual Budget each year. The budget is very detailed, and tracks expenses that are \$100 or greater. When all Departments have submitted their proposed budget the document is submitted to City Council for discussion, review, and approval.

5.6 Performance Indicators

The Public Service Department tracks Sanitary Sewer Overflows (SSOs) as key performance indicators for its system. These incidents, regardless of size, are tracked in accordance with the OERP Plan (described previously) and the procedures in this CMOM plan. There are no chronic SSO locations in the City of Grove City and no SSOs that have reached public waters in recent history. The City occasionally experiences collapsed pipes (0-1 annually), typically due to damage from roots. If a sewer collapse is located, it is generally fixed immediately, usually by open cut repair. The City has minimized the number of collapses by proactive CCTV work and by monitoring deteriorating pipes regularly until they can be fixed.

Only one SSO has been recorded in the last 5 years in Grove City. The incident occurred at Fryer Park and was due to the draining of a swimming pool that overloaded the sewer. The overflow did not reach surface waters and resolved quickly when the rate at which the pool was draining was adjusted. It affected grassed areas and a paved parking area in the park.

A flow monitoring study of the Republican Run sewer shed is currently being conducted by a consultant. Preliminary analysis has identified four areas which appear to be susceptible to elevated I/I and will be studied using SSES techniques presented in this CMOM. The flow monitoring study indicates that the Grove City sewer system expects an average flow rate between 25-56 gallons per day per capita. The maximum ratio of wet weather peak to average dry weather flow was 164.7, which occurred during backwater and surcharge conditions. The flow monitoring report will be made available when it is complete and the final version may vary somewhat from these preliminary numbers. The BOD of Grove City's wastewater is not



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monitored where it enters the Columbus system, rather the Columbus influent is monitored at the treatment plants.

The City has conducted several improvement projects aimed at improving the sewer capacity to prevent WIBs and SSOs. Recent projects include the Columbus Street Relief Sewer and several lining and rehabilitation projects. The City is currently planning for the construction of the Stringtown Relief Sewer, with a planned construction start date of April 2012.



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6.0 SEWER SYSTEM CAPACITY EVALUATION (SSES)

6.1 CCTV Inspection

The City of Grove City owns its own CCTV inspection equipment that is used to respond quickly to emergencies and blockages. The City generally contracts with a consultant for systematic inspection of pipes during SSES investigations. Sewers are selected for CCTV investigation based on customer complaints and sewer investigation outcomes (flow monitoring, smoke testing, dye testing, etc.).

The consultant is required to record a video of the internal condition of the pipes which displays important information in a text format on screen as it is generated. The information on the screen includes the date, name of operator, manhole numbers, pipe size, material, distance recorded, defect types, etc. Defects are recorded in compliance with NASSCO's Pipeline Assessment Certification Program (PACP) and this information is used to rate the condition of the pipes per the standard rating system. In the past, the most common defects observed are root intrusions into the system (recorded in 65% of recorded segments) and defective taps (2.5 defective taps per segment of pipe on average).

CCTV inspection is also required after a contractor performs repairs on pipes. This work is included in repair contracts at the contractor's expense and is a means of confirming that the contractor has performed the work in accordance with the contract standards. This requirement is described in the standard specifications for sewer rehabilitation projects.

6.2 Survey & Rehabilitation

The City recognizes the importance of keeping the wastewater collection system in good condition through regular inspection and rehabilitation. The City has been proactive in inspecting its system. They have a history of SSES investigations in target areas throughout their system, including the Park/Lotz Area (2000), the Groves (2006), the Haughn Road Area (2008), the Orchard/Lotz Area (October 2008), and the Republican Run Area (ongoing). All were prepared using the current industry standards and led to rehabilitation projects throughout the community. Each report makes recommendations for improvements in the surveyed areas. These recommendations are grouped into projects based on the annual budget and added to the City's multi-year CIP plan (which is approved on an annual basis). First priority is given to rehabilitation projects that will address public safety and health concerns, second to flow obstructions, third to infiltration issues, other non-emergency repairs are scheduled and prioritized as funding is available. Rehabilitation work has included cured-in-place pipe (CIPP) lining, manhole rehabilitation, and open cut point repairs. This work is publically bid to contractors with the pertinent training and certifications. Any SSES prepared in the future is expected to be completed using the current standards and practices for evaluation and to outline clear recommendations for the improvement of the system performance. Any work required as an outcome of these investigations will be placed on the City's CIP plan in the annual budget and prioritized based on public safety and health. Historical SSES reports and information on the rehabilitation projects that were performed as a result are available on request. Post rehabilitation flow monitoring is conducted on a case by case basis after key improvements in order to document that I/I has been reduced in the system as a result of the improvements.



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6.3 Sewer Cleaning

Sewers are cleaned prior to flow monitoring and CCTV inspection by jetting and removing debris at the downstream manhole. Sewers are also cleaned using heavy cleaning techniques when CCTV indicates that it is a viable option to clear maintenance defects and partial blockages. The downstream manhole is blocked with a screen and accumulated debris is removed. Removal of debris is done with a vacuum truck which removes water and debris from the downstream manhole, collects the debris in the tank, and returns the water to the sewer system. The collected debris is delivered to a local dump operated by the City of Columbus, which is equipped to properly deal with the waste. Alternate methods of removing debris are considered on a case by case basis.

6.4 Flow Monitoring

The City of Grove City does not own or operate its own flow monitoring equipment. There are no known low points or areas with dry weather flow capacity problems requiring extended flow monitoring. The City of Grove City has contracted with a consultant since 2000 for the flow monitoring of portions of its service areas. The work is often performed in conjunction with SSES work. A consultant recently evaluated the Republican Run Sewershed using 13 flow monitors and 2 rain gauges. The report is expected to recommend several relief sewers and rehabilitation projects, with a 10-15 year proposed timeline for the improvement. The report will be available on request when it is complete.

The City of Grove City does not currently measure flow before allowing new connections to the system. When new users connect to the system on redeveloped sites, the flows that are expected to be generated are compared to the flow generated by the prior use of the site. The frequency and location of future flow monitoring will be determined by the City of Grove City on a case-by-case basis but will be sufficient to be representative of seasonal average and peak flows and sufficient to indicate if corrective measures are effective. The installation location and meter type will be documented for any flow meter installed within the City.

Flow meters installed by Grove City or their consultants will be checked regularly (typically weekly) to ensure that they are operating properly and free of debris or other impediments. Each inspection will be documented and will include a water level check, desiccant check, velocity check, battery check, cleaning, and recoding data.

6.5 Smoke Testing & Dyed Water Testing

Smoke testing is an efficient means of investigating large sewer areas for I/I sources. A smoke machine is placed on a manhole centrally located in the area to be evaluated. Non-toxic smoke is produced and blown into the sewer system. The smoke will be visible at any location where storm water can enter the sanitary sewer system. This includes broken pipes, damaged manholes, and cross connections with the storm sewer system.

When smoke testing is planned for a particular area, a door hanger is distributed throughout the area up to a week in advance notifying residents and business owners that smoke testing is planned. The door hanger describes the smoke testing procedure, explains how smoke might be observed, advises pouring a quart of water into all drains to ensure there are no dry traps, and



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advises anyone using oxygen to contact the smoke testing contractor for further coordination. The police and fire departments are also notified of smoke testing activities because it is not uncommon for emergency calls to be placed while smoke testing is taking place.

Smoke testing is conducted during dry, clear weather with above freezing temperatures so that smoke defects are easy to observe.

Smoke testing is planned to maximize the area covered by each setup. The smoke machine is placed on a chosen manhole and smoke defects along upstream and downstream pipes are documented. All defects are photographed, location recorded, noted as public or private, and address of the property is recorded (if applicable). Placement of the smoker is determined at each site by the observed field conditions. Generally the smoker is placed every 3 to 4 manholes or approximately 500 feet in developed areas. The presence of pressurized smoke coming from building soil-stacks is a good indicator of how far pressurized smoke is traveling and can be used as a guide for modifying placement in the field. In general, smoke testing areas will be much larger in newer systems than in older systems.

When smoke testing reveals a potential connection between storm drainage and the sanitary sewer dyed water testing is considered along with CCTV inspection of the affected pipe. A camera is inserted into the sanitary sewer that is being tested, the storm sewers in the area are temporarily plugged, and fluorescent dyed water is introduced into the storm sewer, ditch, or gutter. Infiltration between the two systems is confirmed if the dyed water appears in the sanitary sewer system. The location of the infiltration or inflow is documented and provided to the City for analysis. If an illegal connection from private property is suspected the crews must contact the property owner to schedule an appointment to enter the property and perform dyed water testing.

The City does not own smoke and dye testing equipment. These services are contracted to firms with the appropriate training and equipment on an as needed basis.

6.6 Manhole Inspection

Manhole inspections in Grove City are conducted as part of SSES studies to identify any defects that need to be repaired in the manholes in a target area. The City has contracted with consultants to perform these studies on a regular basis for over 10 years. Study areas are chosen based on flow monitoring data. The number of manholes inspected per project varies with the size of the area being covered, the most recent SSES included the inspection of 539 manholes. The most common repair called for in the project is cementitious rehabilitation (See Republican Run SSES). SSES projects are planned in advance and appear on the CIP program, which must be approved each year by the City Council.

Manhole inspections are conducted in accordance with industry standards and include inspection components such site condition, frame/cover condition, shaft/chimney condition, chamber/wall condition, bench/channel condition, structural condition, and maintenance condition. Manhole inspection records are maintained indefinitely and are used to guide rehabilitation projects within the community. Inspection data such as location, defects, photographs, etc. are recorded for each manhole inspection.



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6.7 Manhole Repair

Manholes are prioritized for repair based on the findings of the manhole inspections. Manhole repairs are conducted by in house staff or by a contractor. Manholes are inspected per the criteria described in section 6.6. Manholes will be selected for repair based on condition, with the highest priority being manholes that have structural deficiencies that threaten the longevity of the manhole or create I/I problems in the system. Priority will be given to repairing manholes that pose health or safety concerns, second to those causing obstructions to flow, third to those allowing infiltration, and fourth to maintain the goals of the Public Service Department.

Manholes are repaired using the best available methods. Typically, manholes are repaired using techniques such as grouting, manhole lining, replacement of steps, bench and channel rehabilitation, sewer cleaning, and other techniques deemed necessary to repair defects identified during manhole inspection. If a manhole lid is identified as being deficient, the lid is replaced, no manhole inserts are used in the City. Rehabilitation costs are taken from the overall maintenance budget for utilities as previously described in this document if the rehabilitation is not part of a CIP project.

Grove City has an extensive history with manhole rehabilitation, with major projects totaling 69 manholes rehabilitated in the last 4 years (2008-2011).

6.8 Mainline Sewer Repair

After pipe condition assessment is complete, a repair is scheduled. First priority is given to repairs that affect safety and health, second to flow obstructions, third to infiltration issues, and other non-emergency repairs are scheduled and prioritized as funding is available. Cured in Place Pipe lining (CIPP) and open cut point repair are the preferred methods of mainline repair in the City. Alternate methods are evaluated on a case by case basis when necessary. The need for repairs is determined as described in Section 6.2 of this report. Pipe repairs are bid out and performed by contractors who are experienced in sewer repair. CCTV videos of the completed pipe repairs are required for all projects before the final payment is made. The City requires that the contractor repair any deficiencies in its workmanship.

Grove City has an extensive history with pipeline repair, with major projects totaling over 10,000 linear feet of CIPP repair completed in the last 4 years (2008-2011).



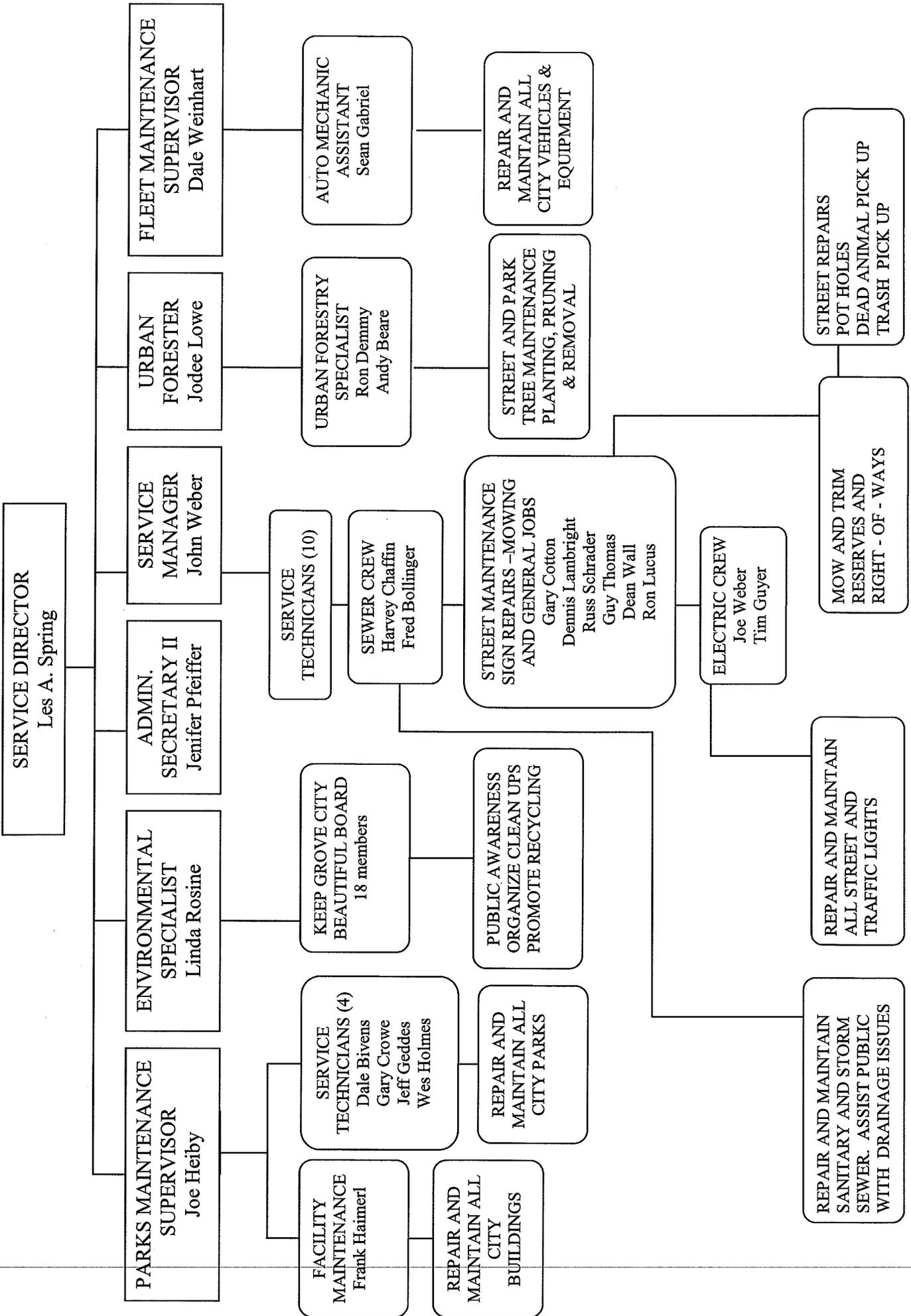
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7.0 PROGRAM SUMMARY

Through the CMOM process Grove City has documented the procedures of the Public Service Department that benefit and maintain the condition of the wastewater collection system. The document describes the ongoing standards and practices that were in effect when the CMOM was prepared. It is general in nature and summarizes information in other documents that are published by or on record with the City of Grove City and the City of Columbus. If more information is desired, please see the source documents referenced in the CMOM. The CMOM has been written to provide a single resource for all parties interested in the condition and operation of the wastewater collection system, and in response to the Ohio EPA Director's Final Findings and Orders. The CMOM shows that Grove City has been proactive in maintaining its wastewater system, has prevented systemic problems, and has been effective at preventing SSOs and WIBs.

The CMOM may need to be updated periodically as the industry standards change or new concerns are presented. It is the City's intention to remain up to date with current technology and will reevaluate this CMOM program regularly with the intention of constant improvement.

APPENDIX A:
Organizational Chart



SERVICE DIRECTOR
Les A. Spring

PARKS MAINTENANCE SUPERVISOR
Joe Heiby

ENVIRONMENTAL SPECIALIST
Linda Rosine

ADMIN. SECRETARY II
Jenifer Pfeiffer

SERVICE MANAGER
John Weber

URBAN FORESTER
Jodee Lowe

FLEET MAINTENANCE SUPERVISOR
Dale Weinhart

FACILITY MAINTENANCE
Frank Haimerl

REPAIR AND MAINTAIN ALL CITY BUILDINGS

SERVICE TECHNICIANS (4)
Dale Bivens
Gary Crowe
Jeff Geddes
Wes Holmes

REPAIR AND MAINTAIN ALL CITY PARKS

KEEP GROVE CITY BEAUTIFUL BOARD
18 members

**PUBLIC AWARENESS
ORGANIZE CLEAN UPS
PROMOTE RECYCLING**

SERVICE TECHNICIANS (10)

SEWER CREW
Harvey Chaffin
Fred Bollinger

**STREET MAINTENANCE
SIGN REPAIRS - MOWING
AND GENERAL JOBS**
Gary Cotton
Dennis Lambright
Russ Schrader
Guy Thomas
Dean Wall
Ron Lucus

ELECTRIC CREW
Joe Weber
Tim Guyer

REPAIR AND MAINTAIN SANITARY AND STORM SEWER. ASSIST PUBLIC WITH DRAINAGE ISSUES

REPAIR AND MAINTAIN ALL STREET AND TRAFFIC LIGHTS

MOW AND TRIM RESERVES AND RIGHT - OF - WAYS

**STREET REPAIRS
POT HOLES
DEAD ANIMAL PICK UP
TRASH PICK UP**

APPENDIX B:
Job Descriptions

POSITION DESCRIPTION

| | | | |
|------------------------|---|------------------------------|--------------------|
| Class Title: | Service Technician | Position Title: | Service Technician |
| Class Number: | | Employee Name: | |
| Dept./Division: | Public Service | Position Number: | |
| Reports To: | Service Manager or Maintenance Supervisor as Assigned | Civil Service Status: | Classified |
| Supervises: | | Employment Status: | Full-time |
| Pay: | Collective Bargaining Unit — Hourly | FLSA Status: | Nonexempt |
| | | DOT Code: | 899.684-046 |

QUALIFICATIONS: Any combination of training and work experience which indicates possession of the knowledge, skills, and abilities listed below. An example of an acceptable qualification for this position:

Completion of secondary education (high school or GED); must be able to qualify for and remain insurable under the City's vehicle insurance policy; experience preferred.

LICENSURE OR CERTIFICATION REQUIREMENTS:

Must possess a valid State of Ohio Commercial Driver's License and appropriate endorsements at the time of application.

EQUIPMENT OPERATED: The following are examples only and are not intended to be all inclusive.

Backhoe, loader, sewer tanker, sewer jet equipment, street sweeper, skid steer, snow plow, tractors, mowers, and other related equipment; saws, jackhammer, crack sealer, roller, chipper, and light and heavy duty motorized trucks, operation of welding equipment, and other hand and power tools (e.g., chainsaw, air wrench, etc.).

INHERENTLY HAZARDOUS OR PHYSICALLY DEMANDING WORKING CONDITIONS:

For purposes of O.R.C. 4167.

The employee: works with heavy equipment; works in and around sewers and unsanitary conditions; works in area in which means of egress is or can be obstructed; is exposed to environmental conditions, which may result in injury from fumes, odors, dust, mists, gases, and/or poorly ventilated work areas; works around motorized equipment; exposed to possible injury from extremely noisy conditions above 85 db; exposed to possible injury from hazardous gases, chemicals, flammables, air contaminants; is exposed to wet walking surfaces; works in inclement weather conditions (e.g., snow, sleet, rain, etc.); is exposed to traffic; is exposed to dirt, dust, and odor; works with moving mechanical parts of equipment or machines (e.g., mowers, saws, etc.); works with welding and electrical equipment; works with and around chemicals founds in an office environment (toner, correction fluid, etc.); may occasionally be exposed to other hazardous or physically demanding working conditions experienced by divisional personnel; employee may exert in excess of 100 pounds of force occasionally, and/or in excess of 50 pounds of force frequently and/or in excess of 20 pounds of force constantly to move objects.

Developed by:

Date Adopted:

Clemans, Nelson & Associates, Inc.

Date Revised:

Dublin, OH 43016

{4/1/2010 PDGVCCI00075932.DOC}

POSITION DESCRIPTION

| | | | |
|------------------------|--|------------------------------|--------------------|
| Class Title: | Service Technician | Position Title: | Service Technician |
| Class Number: | | Employee Name: | |
| Dept./Division: | Public Service | Position Number: | |
| Reports To: | Service Manager or Maintenance Supervisor as Assigned | Civil Service Status: | Classified |
| Supervises: | | Employment Status: | Full-time |
| Pay: | Collective Bargaining Unit — Hourly | FLSA Status: | Nonexempt |
| | | DOT Code: | 899.684-046 |

Note: In accordance with the U.S. Department of Labor physical demands strength ratings, this is considered heavy work.

GOE: 05.12.12 GED: R3 M2 L3 SVP: 5 DLU: 86

DRAFT

Developed by:

Date Adopted:
Date Revised:

Clemans, Nelson & Associates, Inc.
Dublin, OH 43016

POSITION DESCRIPTION

Class Title: Service Technician

Position Title: Service Technician

Class Number:

Employee Name:

JOB DESCRIPTION AND WORKER CHARACTERISTICS:

JOB DUTIES in order of importance

ESSENTIAL FUNCTIONS OF THE POSITION: For purposes of 42 USC 12101:

1. Performs a variety of unskilled and semi-skilled tasks to assist with the efficient delivery of City services (e.g., erect street signs, patch roadways, install sidewalk, snow removal, etc.).
2. Operates and maintains City-owned equipment and vehicles, such as backhoe, skid steer, roller, chipper, snow removal equipment, sewer tanker, sewer jet equipment, tractors, mowers, etc.
3. Inspects equipment and tools prior to operation to ensure safety.
4. Maintains City tools and equipment as required.
5. Digs ditches or trenches, completes rough and finished carpentry work; rakes asphalt, trims and/or cuts trees and brush, and repairs streets, curbs, catch basins, and broken sewer and water lines.
6. Completes some welding and minor electrical work as assigned.
7. Demonstrates regular and predictable attendance.
8. Maintains required licensure and certification.
9. Meets all job safety requirements and all applicable OSHA safety standards that pertain to essential functions.

OTHER DUTIES AND RESPONSIBILITIES:

1. Prepares and submits records of work completed, timecards, job sheets, etc.
2. Cleans City facilities.
3. Performs other related duties as assigned.

Developed by:

Date Adopted:

Clemans, Nelson & Associates, Inc.

Date Revised:

Dublin, OH 43016

{4/1/2010 PDGVCCI 00075932.DOC}

POSITION DESCRIPTION

Class Title: Service Technician
Class Number:

Position Title: Service Technician
Employee Name:

MINIMUM ACCEPTABLE CHARACTERISTICS: (*Indicates developed after employment)

Knowledge of: general construction methods and practices; basic mechanical skills; blueprint interpretation; safety practices and procedures; City policies and procedures.

Skill in: the use and care of hand and power tools and shop equipment; the operation of light and heavy motorized equipment and light and heavy duty trucks; elevation and grade reading; calculation of slopes.

Ability to: follow detailed instructions both written and verbal; perform heavy manual labor for extended periods of time in often adverse conditions; develop and maintain effective working relationships; collect, analyze, and interpret data; prepare accurate documentation.

This position description in no manner states or implies that these are the only duties and responsibilities to be performed by the position incumbent. My (employee) signature below signifies that I have reviewed and understand the contents of the position description.

(Approval of Appointing Authority)

(Date)

(Employee Signature)

(Date)

Developed by:

Date Adopted:

Clemans, Nelson & Associates, Inc.

Date Revised:

Dublin, OH 43016

APPENDIX C:

Sewer Use Agreements

SEWER SERVICE AGREEMENT
CONTRACT
BETWEEN THE CITY OF COLUMBUS
AND
THE CITY OF GROVE CITY

THIS AGREEMENT MADE AND ENTERED INTO THIS 20th DAY OF March, 2001, by and between the CITY OF COLUMBUS, OHIO, (Columbus), and the CITY OF GROVE CITY, OHIO, (Grove City), for the discharge, transportation, pumping and treatment of sewage, industrial wastes, water or other liquid wastes from Grove City to and by the City of Columbus, utilizing the Sewerage System and Sewage Treatment Works of the City of Columbus,

WITNESSETH:

In consideration of the mutual covenants and promises herein contained, and in accordance with the applicable provisions of Chapters 1145 and 1147, Columbus City Codes, 1959 as amended and of Ordinance No. 0137-01 passed February 5, 2001 by the Council of the City of Columbus, and Ordinance No. C-15-01 by the City of Grove City, the parties hereto agree as follows:

Section 1: That, subject at all times to the City of Columbus' right to sell surplus utility services, under the provisions of Article XVIII, Section 6 of the Constitution of Ohio, Grove City, shall have the right and obligation, throughout the effective period of this Agreement to discharge all sewage, industrial wastes, water or other liquid wastes from its sanitary sewers, either directly or indirectly, or both, into the Sewerage System of the City of Columbus, Ohio, and into no other provider, and to have the same transported, pumped and treated by the Sewerage System and Sewage Treatment Works of the City of Columbus, provided, however,

- (a) Grove City shall have adopted or passed such measures as may be necessary to authorize the execution of this Agreement.
- (b) Whenever, and to the extent that, the Columbus City Codes, Chapter 1145, prohibits or restricts the direct or indirect discharge to the sanitary sewer of subfoundation building drains from premises within Columbus, such prohibitions or restrictions shall apply with equal force to premises within Grove City as if same were a part of this Agreement.
- (c) Grove City agrees it will not at any time cause or permit storm water or roof water leaders to be led into or connected with the separate, sanitary system of sewers, or led into or connected with any soil pipe, house drain, or house sewer tributary to the separate sanitary system of sewers.

Grove City agrees that it shall limit inflow and infiltration to its sewer system. The

limitations applying thereto shall be in accordance with a future mutually acceptable modification to this Agreement. [?]

- (d) Grove City agrees that no person shall be permitted to directly or indirectly use or discharge to any sewer within Grove City which is tributary to the City of Columbus Sewer System in violation of any applicable provision of Columbus City Codes, Chapters 1145 and 1147.
- (e) Grove City agrees it will not discharge, cause or permit to be discharged, directly or indirectly into any sewer or into any water course, ditch, or drain leading into any sewer, any acid, chemical, or other substance, which tends to, or does destroy, or in any way injures the sewer or which in any way interferes with proper maintenance of facilities and the transportation, treatment, or disposition of any sewage carried or drained through any sewer in Columbus.
- (f) Grove City agrees it will not discharge, cause or permit to be discharged, directly or indirectly into any sewer, any kerosene, gasoline, benzine, naphtha or any explosive or inflammable chemical, substance or thing.
- (g) Grove City agrees the requirements set forth herein, together with any elaboration, extension, definition or amendment of said requirements as such may be duly elaborated, extended, defined or amended through rules and regulations issued from time to time by the Director of Public Utilities, or by legislative processes of Columbus, shall be fully applicable to all premises in Grove City, which are or later become tributary, directly or indirectly, to the Columbus Sewerage System, to the same extent and degree as they apply within the City of Columbus and any violation of these provisions shall be corrected or caused to be corrected at once by Grove City.
- (h) Subject to Sections 4 and 5 hereinafter Grove City agrees that sewer services, providing for the discharge of sewage, industrial wastes, water or other liquid wastes into its sanitary sewers, shall be restricted to usage by properties within the corporate limits of Grove City, provided that such properties lie within the boundaries of Grove City's service area as such limits exist on the date of execution of this contract, and to usage by any properties annexed to Grove City during the period of this contract provided that such properties be within the Grove City Sewer Service Contract Area designated as Area A on Exhibit I attached to this Agreement.

Reference to annexations as used in this Contract does not include annexation by merger pursuant to the Ohio Revised Code, Section 709.43 through 709.46, inclusive, and as subsequently amended.

Grove City agrees that, should any properties within Grove City's service area annex to the City of Columbus, the City of Columbus shall have the right to provide sewer service to such properties the same as it would any other areas within its corporate limits irrespective of this Agreement.

The parties agree that it is in their mutual best interest to designate that area depicted on Exhibit I as "Area B - Potential Expansion Area". Both Columbus and Grove City agree that the Potential Expansion Area shall constitute a shared future growth area for both parties. However, neither party shall annex land within Area B until the parties further agree to a further delineation of their respective service areas within said Area B through a dually authorized and executed modification of this Agreement.

The City of Columbus shall continue to provide sanitary sewer services to the Solid Waste Authority of Central Ohio ("SWACO") by agreement with SWACO. The parties acknowledge that nothing contained in such agreement or in this Agreement precludes the area being served from being annexed to Grove City or Columbus.

- (i) Grove City agrees that the construction of all house sewers or service connections within its boundaries shall comply with this Agreement, the then current minimum requirements governing such work in Columbus, and conform to Grove City's rules and regulations.
- (j) Grove City agrees that the design, construction, operation, use and maintenance of all sanitary sewers, house services and connections within its boundaries, including all connections with the Columbus Sewerage System, shall be performed at the entire expense of Grove City or its residents, and shall conform in all respects with or exceed the corresponding standards and practice of the City of Columbus. All main and sanitary sewers and connections to serve areas within Grove City shall be constructed in accordance with detailed plans and specifications which have been approved from an engineering standpoint by the Columbus Director of Public Utilities, provided that such approval, from an engineering standpoint, or disapproval supported by engineering reasons therefore, shall be made by the Columbus Director of Public Utilities, within thirty (30) days after said plans and specifications have been submitted for final approval by Grove City. Absent approval or disapproval as set forth above, Grove City may proceed with construction in full conformity with such plans and specifications and with such engineering supervision and inspection as may be required by Columbus, and subject to all other provisions of this Agreement and applicable references. Upon completion of such work, and not later than sixty (60) days thereafter, accurate record drawings showing the work as actually constructed shall be filed by Grove City, with Columbus, having been approved and signed by Grove City and submitted to Columbus for final approval. These record drawings shall show the area of each and every tributary lot and tract computed in accordance with paragraph (l) of this Section. Grove City agrees to notify Columbus at least forty-eight (48) hours prior to tapping any Columbus sewers.
- (k) Grove City agrees that for all structures and properties connected to the Columbus Sewerage System, after the effective date of this Agreement, a system capacity charge for main trunk sanitary sewer benefit, or such similar charges as may be hereinafter established by Columbus, shall be applicable to any and all such structures and properties which are located within Grove City corporate limits, wherever such property will be tributary directly or indirectly to the Columbus Sewerage System, and provided that such

charge(s) shall be determined and collected before or upon the issuance of a permit to connect such structures to the sewerage system. The charge so determined shall be computed on the size of the domestic water service tap for either city water or well water usage for each structure as computed by Columbus, for similar structures as established and periodically amended by Columbus Ordinance. Grove City agrees to pay the City of Columbus, at three (3) month intervals, a percentage of all such charges as collected, consistent with the following schedule:

Percentage of amount collected by Grove City to be paid to Columbus:

| YEAR | PERCENTAGE |
|----------------------------------|------------|
| Date of Contract - Dec. 31, 2000 | 33.3% |
| Jan. 1, 2001 - Dec. 31, 2001 | 45.0% |
| Jan. 1, 2002 - Dec. 31, 2002 | 50.0% |
| Jan. 1, 2003 - Dec. 31, 2003 | 75.0% |
| Jan. 1, 2004 - Dec. 31, 2004 | 90.0% |
| Jan. 1, 2005 | 100.0% |

Nothing contained herein shall preclude Grove City from charging an additional fee for connecting into the sewerage system which additional fee shall be retained by Grove City.

- (l) Grove City agrees to establish a system of sewer service connection permits and shall transmit copies of sewer service permits to the City of Columbus at three (3) month intervals along with system capacity charges collected for that same three(3) month interval. Grove City shall keep and maintain an accurate record of all premises connected with its sewers which record shall, upon demand, be made available to the City of Columbus. Grove City shall issue permits and collect all applicable fees for all premises located within its corporate limits. Grove City shall give 48 hours notice to the City of Columbus, Division of Sewerage and Drainage, Sewer Permit Office, prior to making any sewer service connection to a City of Columbus sewer line.
- (m) Grove City agrees to furnish to the Columbus Director of Public Utilities, all available information and data as to all sources of water supply other than the Columbus Division of Water, which may be in existence, or may later be developed to serve Grove City. As to wells, this information shall include the location, size, capacity and depth thereof. Further, Grove City agrees that where such water supply discharges directly or indirectly into the sanitary sewer system, Grove City shall require metering or other forms of measurement as agreed to by the Columbus Director of Public Utilities.
- (n) As soon as available, Grove City agrees to furnish to Columbus copies of its location atlas maps showing the overall sanitary sewer system and furnish additional up-to-date copies on a quarterly basis.
- (o) Notwithstanding the Village of Urbancrest's inclusion in Area A, Grove City shall not have any maintenance or repair obligations for main and sanitary sewers within the Village

of Urbancrest.

Section 2:

- (a) The City of Columbus, through its Division of Water, shall have the rights and privilege, beginning as of the effective date of this Agreement, of billing for sewerage service charges based upon the water usage or consumption as indicated by the metering system established by Columbus Division of Water. Under the method established above, for determination of the sewerage service charge or charges, said charge or charges shall be computed by subjecting the water usage to the applicable provisions and rates of Chapter 1147, Columbus City Code, 1959, which applicable rates may be changed in accordance with such rate structure as may be established from time to time for areas outside the Columbus corporate limits by ordinances passed by the Columbus City Council; provided, however, and subject to the provisions of Section 1 of this Agreement, that in the event of any such subsequent change in the rates of charge, the rates of charge to Grove City, shall not, in such case, exceed the rates of charge duly established and collected, at such time, for any other political subdivision.
- (b) Upon Grove City's written request, Columbus agrees to include as a separate item under the billing authorized above, such user surcharge for structures and premises within the corporate limit of Grove City as may be established from time to time by Grove City ordinance or regulation. Such surcharge shall be refunded to Grove City quarterly, together with a verified report of the amount collected.
- (c) Columbus agrees that in the computation of charges made to Grove City sewerage service customers, the same credits or adjustments shall be applicable to sewerage service customers in Columbus as are now, or may hereafter from time to time, be applicable thereto, due to non-entry into the sanitary sewers of water consumed by such users, shall be applicable to Grove City customers; provided that any fee charged by Columbus to obtain such credits or adjustments may be increased by fifty-cents (\$0.50) for users within Grove City.
- (d) Columbus agrees that Grove City shall have the right and privilege to make charges, for structures and premises within the corporation limits of Grove City, independent of the requirements of Section 1, and such charges shall not be subject to the division as established in Section 1.

Section 2.1: Columbus may administer and enforce Sections 1145.01 - 1145.99 of the Columbus City Codes and all amendments thereto within Grove City corporate limits in order to prohibit or limit the discharge of toxic and other substances into the sewerage system. It is also agreed that the City of Columbus representatives may enter industrial establishments, perform inspections, and sample waste streams for the purpose of enforcing Sections 1145 and 1147 of the Columbus City Code, as amended. Grove City agrees to adopt as a local regulation or ordinance of Grove City the requirements of Section 1145.01 - 1145.99 in order that these requirements shall be applicable to all premises in Grove City which are, or later become, tributary directly or indirectly to the Columbus Sewage System to the same extent as they apply to premises within Columbus.

- (a) Grove City agrees that all fees for administering and enforcing Chapter 1145 shall be collected in accordance with Chapter 1147 of the Columbus City Codes, as amended.

Section 3: That this Agreement will commence on December 1, 2000 and shall remain in full force and effect until midnight of November 30, 2050 subject to earlier termination or to revision, or to properly authorized modification or to renewal upon mutual agreement of the parties hereto and shall supersede and cancel any and all previous agreements concerning sewage service between the parties hereto for the specific City of Grove City. It is agreed that expansion adjustments or modifications of Area A shall be reviewed by both parties at least every five (5) years, or sooner, upon a showing of good cause in writing delivered by either party to the other.

Section 4: Grove City agrees that during the effective period of this Agreement, Columbus employees or agents shall have the right to enter into and within Grove City's corporate limits for all purposes of this Agreement, for the further purpose of construction within the individual design-tributary area of any extensions to the Sewer System of Grove City and constructing any other main sewers which, on the basis of sound engineering principles, may be deemed necessary by the Columbus Director of Public Utilities to build up an adequate sewer collector system in the entire area to be serviced by Columbus, including by not being limited to Grove City corporate limits.

The plans and specifications for the construction of sewers shall be submitted by Columbus to Grove City for approval as engineering and location. Such approval or rejection supported by engineering reasons therefore, shall be made by Grove City within thirty (30) days after said plans and specifications have been submitted by Columbus to Grove City for final approval. In the case where no approval or disapproval is made by Grove City within said thirty (30) days, Columbus may proceed with construction, without prejudice, in full conformity with the plans and specifications so submitted and not acted upon by Grove City, subject however to legal requirements governing the need for proper easements where said sewers will be located on private property. In the case where said plans and specifications are disapproved from an engineering or location standpoint by Grove City within the said thirty (30) days, such disapproval shall be made in writing and the engineering reasons set forth therein.

Columbus pledges itself to construct such sewer extensions at its own expense and, insofar as possible, to restore disturbed areas to a reasonably equal condition in which they were found prior to such construction. Columbus will and shall have the right to preserve, maintain, operate, replace and repair any such sewers. During the life of this contract Grove City shall have the right to connect any main sewers of its own collector system to any such aforementioned sewers, subject to the requirement that the flow from Grove City's main sewers is not above that designed for and is not from areas outside the individual tributary-design area of the said main sewers constructed by Columbus. Further, subject to the requirement that such connections shall be made under Columbus' supervision in such manner as approved by Columbus and in full conformity with all other provisions of this Agreement.

Section 4.1: Grove City will take no action to initiate, approve, nor in any manner support a

merger with any adjacent township pursuant to Section 709.43 through 709.46, inclusive, of the Ohio Revised Code or any revision or amendment thereto. All efforts by Grove City to increase its geographic boundaries shall be through the annexation procedure. Grove City agrees that it will not initiate, approve, nor support in any manner, annexation to Grove City of properties located outside the Grove City Sewer Service Area designated on Exhibit I attached to this Agreement.

Section 4.2: It is agreed by the parties that in the event a merger between Grove City, Ohio and any township should occur, the City of Columbus shall incur no obligation to service areas other than those specifically referred to in this contract. The parties further agree that as of the effective date of said merger, the rates chargeable hereunder shall become ten times those set forth in Section 2 hereof. Grove City, Ohio, consents to the provisions set forth in this section as related to the cost and expense of providing continued services under this Agreement and not as an exaction, tax or penalty in the event the conditions imposing this section occur. Further, Grove City, Ohio, consents and agrees that the provisions in this Section are not confiscatory nor unreasonable.

Section 4.3: If the City of Columbus enters into any new Sewerage Service Agreement or modifies, amends, extends or otherwise changes the terms of any Sewerage Service Agreement with any political jurisdiction and the new, modified, amended, extended or otherwise changed agreement does not contain the same provisions regarding merger/annexation as set forth in Section 4.1 and 4.2 of this agreement, then Sections 4.1 and 4.2 are null and void.

Section 4.4: Grove City agrees that the portion of Area A between State Route 104 and the Scioto River shall be limited to low density residential, passive recreation and open space uses. Grove City agrees to use its best efforts to discourage development within the flood plain of the Scioto River by, among other incentives, permitting increased densities on non-flood plain areas to property owners who agree to preserve flood plain areas as greenways.

Section 5: Grove City further agrees that Columbus may connect any sewer to the sewerage system of Grove City after submission of the plans and specifications therefore to Grove City in accordance with the provisions of Section 4 and provided that such sewer connections by Columbus do not serve areas outside Grove City sewer system tributary-design areas.

Columbus agrees that for all properties and premises within Columbus connected into such sewers or connections it shall reimburse Grove City for any oversizing of that section of the sewer system built by Grove City on the basis of an estimate of the differential in cost of that section of the system involved, to be mutually agreed upon prior to approval of plans.

Section 6: Grove City agrees that during the term of this Agreement, it will take no action whatsoever, including any funding, preliminary engineering, or other surveying necessary or incident to plan, design, construct, or operate any sanitary waste water treatment facility and that, except as herein provided or as may be subsequently authorized by the Columbus City Council, Columbus shall be the sole and exclusive provider to Grove City of such services as are provided by the terms of this Agreement within the designated sewer service area set forth on Exhibit I

attached to this Agreement.

Section 7: If any portion of this Agreement proves to be invalid or unconstitutional, the same shall not be held to invalidate or impair the validity, force or effect of any other portion of this Agreement unless it clearly appears that such other portion is wholly or necessarily dependent for its operation upon the portion so held invalid or unconstitutional.

Section 8: That failure on the part of either party of this Agreement to faithfully discharge its obligations and responsibilities hereunder, either in whole or in part, shall vest in the other party to the Agreement the right to terminate same, effective sixty (60) days after written notice of such failure and the intent to terminate is delivered to the offending party, provided that the offending party shall have the right to cure or correct the such failure, to faithfully discharge its obligations and responsibilities and upon demonstration thereof such notice of cancellation shall not be effective and this Agreement shall remain in full force and effect without prejudice to Columbus' right to collect amounts due and owing to Columbus arising under the terms of this Contract prior to notice of termination.

Section 9: The City of Grove City has extended a subtrunk sewer under I-270 to a point just north of the northern right-of-way of I-270 (that portion of the subtrunk sewer under the right-of-way of I-270 hereinafter referred to as the "Grove City Sewer"). , the City of Columbus shall design and construct the Marsh Run Sanitary Subtrunk from the interconnecting sewer on the east side of State Route 104, westward along Marsh Run to the terminus of the Grove City Sewer. Upon the submittal to Columbus of the "As-Built" plans and documentation of the costs of the Grove City Sewer, the City of Columbus will reimburse to Grove City one half (1/2) of the construction costs of the Grove City Sewer subject to appropriation of funds by Columbus City Council and certification by the City Auditor.

[SIGNATURES CONTAINED ON NEXT PAGE]

IN WITNESS WHEREOF, the parties hereto have set their hands on this 20th day of March, 2001.

THE CITY OF COLUMBUS, OHIO

By [Signature]
PUBLIC UTILITIES DIRECTOR

THE CITY OF GROVE CITY, OHIO

By [Signature]

TITLE [Signature]

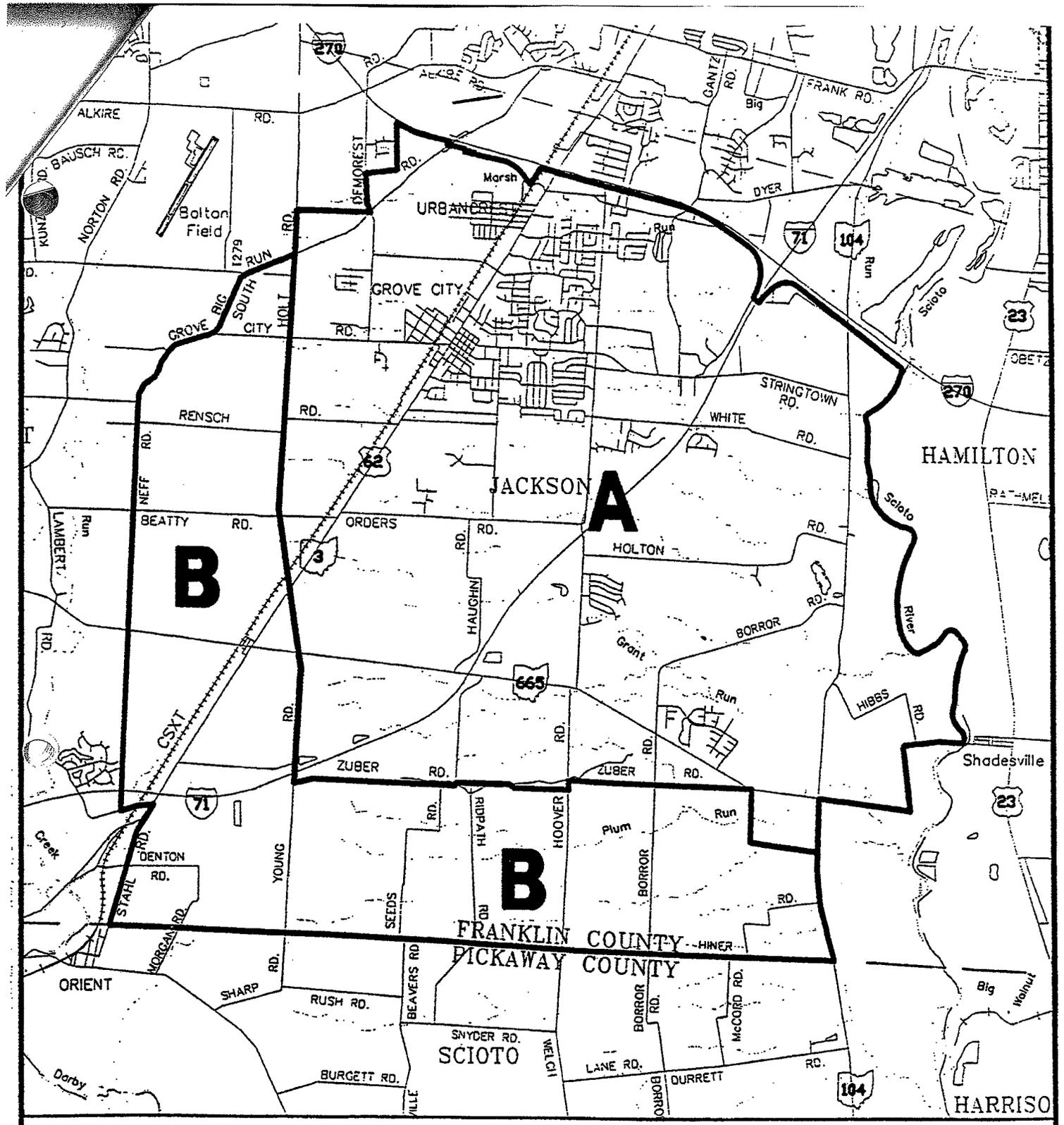
By _____

TITLE _____

Approved as to form:

[Signature]
Solicitor
City of Grove City, Ohio

[Signature]
City Attorney
Columbus, Ohio
3/20/01



SANITARY SEWER SERVICE AREA EXHIBIT

- AREA A** — Grove City Sewer Service Contract Area
- AREA B** — Potential Expansion Area

EXHIBIT I

RESOLUTION NO. CR-75-93

A RESOLUTION TO AUTHORIZE THE MAYOR OF THE CITY OF GROVE CITY, OHIO TO ENTER INTO AN AGREEMENT WITH THE VILLAGE OF URBANCREST FOR SANITARY SEWER SERVICES

WHEREAS, the wastewater of the Village of Urbancrest runs through the sanitary sewer lines of the City of Grove City; and

WHEREAS, there is currently no agreement between the Village and City for this service.

NOW THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF GROVE CITY, STATE OF OHIO, THAT:

SECTION 1. The Mayor is hereby authorized to enter into an agreement with the Village of Urbancrest for sanitary sewer services as shown in Exhibit "A" attached hereto and made a part hereof.

SECTION 2. This resolution shall take effect at the earliest opportunity allowed by law.

Brian L. Buzby
Brian L. Buzby, President of Council

Passed: 11-1-93
Effective: 11-1-93

Richard L. Stage
Richard L. Stage, Mayor

Attest: Tami K. Kelly
Tami K. Kelly, Clerk of Council

I Certify that this resolution is correct as to form.

Thomas R. Clark
Thomas R. Clark, Director of Law

AGREEMENT

To provide for the discharge of sewage and appropriate industrial wastes from the Village of Urbancrest, Ohio, into the Sewerage System in the City of Grove City, Ohio, as hereinafter provided; now, therefore,

THIS AGREEMENT MADE AND ENTERED INTO this _____ day of _____, 1993, by and between the City of Grove City, Ohio, Party of the First Part, and the Village of Urbancrest, Ohio, Party of the Second Part, providing for the discharge of sewage and appropriate industrial wastes from the said Village of Urbancrest, Ohio, into the Sewerage System of the said City of Grove City, Ohio.

WITNESSETH:

In consideration of the mutual covenants and premises herein contained, and in accordance with Ordinance No. _____ passed on _____, 1993, by the Council of The City of Grove City, and of Ordinance No. Res. 93-25 passed on September 7, 1993, by the Council of the Village of Urbancrest, the parties hereto agree as follows:

Section 1.

That, subject at all times to the provisions of Article XVIII, Section 6, of the Constitution of Ohio, the Village of Urbancrest, Ohio, shall have the right and obligation, under the applicable provisions of the aforesaid authorization throughout the effective period of this agreement, to discharge all sewage and appropriate industrial wastes from its sanitary sewers, either directly or indirectly, or both, into the Sewerage System of the City of Grove City, Ohio,

- (a) That the Village of Urbancrest, Ohio shall have adopted or passed such measures as may be necessary to authorize the execution of this agreement and a maintenance agreement with the City of Columbus which provides for the inspection, maintenance and repair by the City of Columbus of the sanitary sewer collecting system of the Village of Urbancrest. That said maintenance agreement shall be entered into by the Village of Urbancrest with the City of Columbus within thirty (30) days of the date that the Village of Urbancrest completes its sewer system repair project, but not later than January 1, 1994.
- (b) That whenever and to the extent that the Codified Ordinances of the City of Grove City prohibits or restricts the direct or indirect discharge to the sanitary sewers of subsoil drains

from the premises within the City of Grove City, such prohibition or restriction shall apply with equal force to premises within the Village of Urbancrest as if the same were a part of this agreement.

- (c) That the Village of Urbancrest, Ohio agrees it will not at any time cause or permit storm water or roof water leaders to be led into or connected with the sanitary system of sewers, or led into or connected with any soil pipe, house drain, or house sewer tributary to the sanitary system of sewers.
- (d) That the Village of Urbancrest, Ohio agrees it will not discharge, or cause or permit to be discharged into any sewer or into any water course, ditch or drain leading into any sewer, any acid, chemical or other substance, which tends to or does destroy or in any way injures the sewer or which in any way interferes with the proper maintenance of facilities and the transportation, treatment or disposition of any sewage carried or drained through any sewer in the City of Grove City, Ohio.
- (e) That the Village of Urbancrest, Ohio agrees it will not discharge, cause or permit to be discharged directly or indirectly into any sewer, any kerosene, gasoline, benzine, naphtha or any explosive or inflammable chemical, substance or thing.
- (f) That the Village of Urbancrest, Ohio agrees the requirements set forth in paragraphs (c), (d), and (e) above, together with any elaboration, extension, definition or amendment of said requirements as such may be duly elaborated, extended, defined or amended through rules and regulations issued from time to time by any administrative department of the City of Grove City, or by legislative processes of the Council of the City of Grove City, Ohio, shall all apply to all premises in the Village of Urbancrest, Ohio, which are or later become tributary directly or indirectly to the Sewerage system of the City of Grove City and violation of these provisions shall be corrected or caused to be corrected by the said Village of Urbancrest, Ohio, immediately upon notification of said violation.
- (g) That subject to Sections 3 and 4 hereinafter the said Village of Urbancrest agrees to prohibit the discharge of sewage, industrial wastes, water or other liquid wastes into its sanitary sewer from any area outside the present corporation limits of the said Village of Urbancrest, Ohio, as these limits exist on the date of execution of this agreement. Provided that upon and with specific written approval of the City Administrator of the City of Grove City, Ohio, premises which subsequently become formerly annexed to said Village of Urbancrest may be granted the right to discharge sewage and

appropriate industrial wastes into sanitary sewers within the said Village of Urbancrest, Ohio.

- (h) That the Village of Urbancrest, Ohio agrees that the construction of all house sewers or service connections in the said Village of Urbancrest, Ohio, shall conform to the provisions of this agreement and the then current minimum requirements governing such work in the City of Grove City, Ohio, and the then minimum requirements of the Village of Urbancrest, Ohio. Should said minimum requirements of the parties be incompatible, the minimum requirements of the City of Grove City shall be applicable.
- (i) That the Village of Urbancrest, Ohio agrees that the design, construction, operation, use and maintenance of all sanitary sewers, services and connections in the said Village of Urbancrest, Ohio, including all connections with the Sewerage System of the City of Grove City, Ohio, shall be performed at the entire expense of the said Village of Urbancrest, Ohio, and shall conform in all respects with corresponding standards and practice of the City of Grove City, Ohio. All main sanitary sewers and connections to serve areas within the Village of Urbancrest shall be constructed in accordance with detailed plans and specifications which have been approved by the City Administrator of the City of Grove City, Ohio, provided that such approval or disapproval shall be made by the City Administrator of the City of Grove City, Ohio, within thirty (30) days after said plans and specifications have been submitted for final approval by the Village of Urbancrest, Ohio, otherwise said Village of Urbancrest may proceed with construction in full conformity with such plans and specifications and with such engineering supervision and inspections as may be required by the City of Grove City, Ohio, and subject to all other provisions of this agreement and applicable references. That upon completion of such work, and not later than sixty (60) days thereafter, accurate record drawings showing the work as actually constructed shall be filed by the Village of Urbancrest, Ohio, with the City Administrator of the City of Grove City. Said record drawings shall show the area of each and every tributary lot and tract computed in accordance with the following paragraph (j). In the case where said plans and specifications are disapproved by the City of Grove City within the said thirty (30) days, such disapproval shall be made in writing and must set forth the engineering reasons upon which the disapproval is based. The parties agree that said disapproval may be appealed to the City of Columbus' Director of Public Utilities and that the decision of the Director of Public Utilities with respect to the disapproval shall be final and shall be binding on the parties. Said appeal must be filed within thirty (30) days from the date the written disapproval is received by the

Village of Urbancrest. The procedures for said appeal shall be within the discretion of the Director of Public Utilities.

- (j) That the Village of Urbancrest, Ohio agrees that for all properties and premises connected into sewers after the effective date of this agreement a charge for sanitary sewer benefit as established by Chapter 939 of The Codified Ordinances of the City of Grove City, or such similar charge as may be hereafter established by the City of Grove City, shall be exacted and collected by the Village of Urbancrest, Ohio, and paid to the City of Grove City, against any and all such property and premises which is or will be tributary directly or indirectly to the sewerage system of the City of Grove City and provided that such charge shall be exacted, and collected before or upon the issuance of a permit to connect such property to the sewer system.
- (k) That the said Village of Urbancrest, Ohio, agrees to establish a system of sewer or connection permits and shall transmit copies of sewer service permits to the City of Grove City, Ohio, monthly and shall keep and maintain an accurate record of all premises connected with its sewers which record shall, upon demand, be made available to the City of Grove City, Ohio.
- (l) That the Village of Urbancrest, Ohio, agrees to furnish the Director of Public Service of the City of Grove City, Ohio, all available information and data as to all sources of water supply other than the Division of Water of the City of Columbus, Ohio, which may now be in existence, or may later be developed to serve premises within the Village of Urbancrest with such data and information, in the case of wells, to include the location, size, capacity and depth thereof and further where such water supply discharges directly or indirectly into the sanitary sewer system, said Village of Urbancrest, Ohio shall require metering or other form of measurement to be agreed to by the City Administrator of the City of Grove City.
- (m) That as soon as available, the Village of Urbancrest agrees to furnish to the City of Grove City copies of its location atlas maps showing the overall sanitary sewer system and furnish additional copies as and when individual maps are changed or brought up to date.

Section 2.

That the City of Grove City shall have the right and privilege beginning as of the effective date of this Agreement and providing that an appropriate agreement for water service has been executed between the City of Columbus and the Village of

Urbancrest, Ohio, of billing directly against or of adding to water bills rendered against premises within the Village of Urbancrest, by the Division of Water of the City of Columbus, a charge or charges based on the applicable provisions of The Codified Ordinances of the City of Grove City, which charge or charges may be changed in accordance with such rates as may be established subsequent applicable ordinances or amendments thereto of the Council of the City of Grove City, Ohio; provided, however, and subject to the provisions of Section 1 of this Agreement, the charges to premises in the Village or Urbancrest shall not at any time exceed the charges duly established and collected at such time for and from premises within the City of Grove City for similar sewerage service. The City of Grove City further agrees that in the computation of charges made to users of sewerage service in the Village of Urbancrest, the same credits or adjustments shall be applied, as are now or may hereafter from time to time be applicable to users of such service in the City of Grove City, by reason of the non-entry into the sanitary sewers of water consumed by such users.

Section 3.

That the Village of Urbancrest, Ohio agrees that during the effective period of this agreement, the City of Grove City, Ohio, shall have the right to enter into and within the corporate limits of said Village of Urbancrest, Ohio, for all purposes of this agreement and for further purpose of construction within the design - tributary area, of any extensions to the main sewer system of the Village of Urbancrest, Ohio, and constructing any other main sewers which may be deemed necessary by the City Administrator of the City of Grove City, Ohio, to build an adequate sewer system in the entire area to be serviced by the City of Grove City, Ohio, including but not being limited to the corporate area of the Village of Urbancrest, Ohio. The plans and specifications for the construction of such sewers shall be submitted by the City of Grove City to the Village of Urbancrest, Ohio, for approval. Approval or rejection shall be made by the said Village of Urbancrest, Ohio, within thirty (30) days after said plans and specifications have been submitted for final approval by the City of Grove City, Ohio. In the case where no approval or disapproval is made by the Village of Urbancrest within the said thirty (30) days, the City of Grove City may proceed with construction, without prejudice, in full conformity with the plans and specifications so submitted, subject, however, to legal requirements governing the need for proper easements where said sewers will be located on private property. In the case where said plans and specifications are disapproved by the Village of Urbancrest within the said

thirty (30) days, such disapproval shall be made in writing and must set forth the engineering reasons upon which the disapproval is based. The parties agree that said disapproval may be appealed to the City of Columbus' Director of Public Utilities and that the decision of the Director of Public Utilities with respect to the disapproval, shall be final and shall be binding on the parties. Said appeal must be filed within thirty (30) days from the date that the written disapproval is received by the City of Grove City. The procedures for said appeal shall be within the discretion of the Director of Public Utilities.

The City of Grove City pledges itself to construct such main sewers at its own expense and, insofar as possible, to restore disturbed areas, insofar as practical, to the same or equal condition in which they were found prior to such construction. The City of Grove City will and shall have the right to preserve, maintain, operate, replace and repair any such sewers. During the life of this contract, the Village of Urbancrest, Ohio, shall have the right to connect any main sewers of its own collector system to any such aforementioned sewers subject to the requirements that the flow from such Village of Urbancrest, Ohio main sewers is not contributed by areas outside the tributary-design area of the said main sewers constructed by the City of Grove City and further subject to the requirement that such connections shall be made under the supervision of the City Administrator of the City of Grove City, or his designee, in such manner as he shall approve and in full conformity with all other provisions of this agreement.

Section 4.

That the Village of Urbancrest, Ohio further agrees that the City of Grove City may connect any main sewer to the sewerage system of the Village of Urbancrest after submission of the plans and specifications therefor to the Village of Urbancrest in accordance with the provisions of Section (3) above and provided that such main sewer connections by the City of Grove City do not serve areas outside the tributary design areas of the Village of Urbancrest and the City of Grove City sewer systems.

Section 5.

That this agreement, subject to its other provisions including paragraph (a) of Section 1, shall be effective as of the date the agreement has been executed by both parties and approved as to form by their respective law directors and shall remain in effect for a period of twenty years subject to earlier

termination, subject to Section 7 below, or revision or modification, but only if said revision or modification has been agreed to in writing by the parties.

Section 6.

That if any portion of this agreement proves to be invalid or unconstitutional, the same shall not be held to invalidate or impair the validity, force or effect of any other portion of this agreement unless it clearly appears that such other portion is wholly and necessarily dependent for its operation upon the portion so held invalid or unconstitutional.

Section 7.

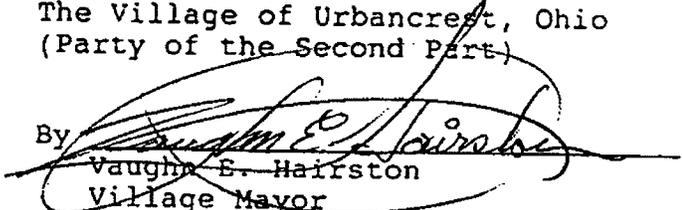
That failure on the part of either party to this agreement to faithfully discharge any of its obligations and responsibilities under this agreement or the violation of any provision of this agreement by either party, shall vest in the other party to the agreement the right to terminate this agreement, effective sixty (60) days after written notice of such failure and/or violation and the intent to terminate is sent by certified mail by such party to the offending party, provided the offending party shall have the right to correct said failure to discharge its obligations and responsibilities and/or violation within said sixty (60) day period.

IN WITNESS WHEREOF, the parties hereto have set their hands on this _____ day of _____, 1993.

The City of Grove City, Ohio
(Party of the First Part)

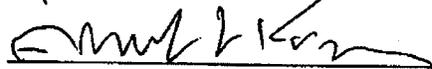
By _____
Charles W. Boso, Jr.
City Administrator

The Village of Urbancrest, Ohio
(Party of the Second Part)

By 
Vaughn E. Hairston
Village Mayor

By 
Beatrice Boyden, Clerk of Council

Approved as to form:



Law Director, Village of Urbancrest



Law Director, City of Grove City

APPENDIX D:

City of Columbus Sewer Usage Rates 2011

**RESIDENTIAL / CONSECUTIVE
WATER / SEWER RATES EFFECTIVE JANUARY 1, 2011**

| SUBDIVISION | WATER USAGE CHARGES PER CCF PER MONTH | | | | SEWER SERVICE CHARGES & USAGE CHARGES | | | | SUBURBAN SURCHARGES PER CCF | | | | | | | |
|-------------------|---------------------------------------|-------------------------|-------------------------------|-------------------------|---------------------------------------|---------------------------------------|---------------------------|--------------------------------|-----------------------------|--------------------|-------------------------|-------------------------|------------------------------|---------------------------------------|---------------------------|--------------------------------|
| | RESIDENTIAL AU, CU, DU, SF, SR | | CONSECUTIVE AC, CC, DP, MM | | SWR SVC CHARGE MONTHLY | QTLY SWR SVC CHARGE PER MNTH | SEWER USAGE PER CCF | CLEAN RIVER FUND PER ERU | WATER SURCHARGE | SEWER SURCHARGE | RATE CODE QUARTER | RATE CODE MONTHLY | SWR SVC CHARGE MONTHLY | QTLY SWR SVC CHARGE PER MNTH | SEWER USAGE PER CCF | CLEAN RIVER FUND PER ERU |
| | FIRST 5 CCF PER MO | OVER 5 CCF PER MO | FIRST 5 CCF PER MO | OVER 5 CCF PER MO | | | | | | | | | | | | |
| Columbus | 2.311 | 2.569 | 2.311 | 2.569 | 10.44 | 3.48 | 3.580 | 0.1502 ² 0.0983 | N/A | N/A | QMNC | 10.44 | 3.48 | 3.580 | 0.0983 | |
| County Rural | 3.467 | 3.854 | 3.467 | 3.854 | 10.44 | 3.48 | 3.890 ³ | 0.0583 | N/A | N/A | QMNC | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Brice | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | N/A | N/A | QMBR | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Brookside Estates | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | 10% | 10% | QMBE | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Dublin | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | .380 | 1.010 | QMDU | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Grandview | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | 12% | 12% | QMGV | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Grove City | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | .315 | .355 / 2.00M | QMGV | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Groveport | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | 15% | N/A | QMGV | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Hamilton Meadows | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | 10% | 10% | QMHM | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Hilliard | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.065 ² 0.0583 | 14.25% | 10% | QHL | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Marblecliff | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | N/A | N/A | QMMC | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Minerva Park | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | .55 / 274D | .086 | QMMP | 10.44 | 3.48 | 3.890 | 0.0583 | |
| New Albany | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | N/A | N/A | QMNA | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Obetz | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | N/A | N/A | QMOB | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Ridgewood | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | 10% | 10% | QMRW | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Riverlea | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | N/A | N/A | QMRV | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Upper Arlington | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | 10% | 18% | QMUA | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Urbancrest | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | .20 / 1.08M | .20 / 1.08M | QMUR | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Valleyview | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | N/A | N/A | QMVV | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Village Park | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | 10% | 10% | QMPV | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Whitehall | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | N/A | N/A | QMWH | 10.44 | 3.48 | 3.890 | 0.0583 | |
| Worthington | 3.004 | 3.340 | 3.004 | 3.340 | 10.44 | 3.48 | 3.890 | 0.0583 | .075 | .075 | QMWO | 10.44 | 3.48 | 3.890 | 0.0583 | |

For 5/8" meter only--larger meters & Senior Citizen, see Service Charge Rate Sheet
 Minerva Park water surcharge revised 4/19/04-\$100.00 annual charge added (.274 per day) / surcharge per ccf changed from \$.46 to \$.55
 2 Columbus Stormwater Charge / Hilliard Stormwater Effective 4/1/10
 D-Charge per day (Minerva Park)
 3 County Rural Rate where county sewer maintenance fee is applicable
 Grandview surcharges started 7/1/04
 M-Minimum surcharge per month
 %-Percent of water or sewer commodity charges=surcharge

COMMERCIAL
WATER / SEWER RATES EFFECTIVE JANUARY 1, 2011

| SUBDIVISION | WATER USAGE CHARGES PER CCF PER MONTH | | | | | | SUBURBAN SURCHG PER CCF | | | SEWER SERVICE CHARGES & USAGE CHARGES | | | | | |
|------------------|---------------------------------------|--|---------------------|---------------------|-----------------------|--------------------------|-------------------------|------------------------|--------------|---------------------------------------|------------------------|-----------------------------|---------------------|------------------------------|-------------------------------|
| | 1 ^{WTR} SVC CHARGE MONTHLY | 1 ^{QTY} WTR SVC CHARGE PER MNTH | FIRST 15 CCF PER MO | NEXT 255 CCF PER MO | NEXT 1,750 CCF PER MO | NEXT 8,000 CCF PER MONTH | NEXT 10,000 CCF PER MO. | BALANCE OF CCFs PER MO | WATER SURCHG | SEWER SURCHG | SWR SVC CHARGE MONTHLY | QTY SWR SVC CHARGE PER MNTH | SEWER USAGE PER CCF | INDUSTRIAL COMMODITY PER CCF | CLEAN RIVER FUND |
| Columbus | 28.27 | 6.47 | 2.774 | 2.388 | 1.850 | 1.746 | 1.541 | 1.516 | N/A | N/A | 10.44 | 3.48 | 3.580 | 3.630 | 0.1502 ² 0.0583 |
| County Rural | 42.41 | 9.71 | 4.161 | 3.582 | 2.775 | 2.619 | 2.312 | 2.274 | N/A | N/A | 10.44 | 3.48 | 3.890 ³ | 3.920 | 0.0583 |
| Brice | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | N/A | N/A | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Brookside Estate | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | 10% | 10% | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Dublin | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | .380 | 1.010 | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Grandview | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | 12% | 12% | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Grove City | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | .315 | .355 / 2.00M | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Groveport | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | 15% | N/A | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Hamilton Meadows | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | 10% | 10% | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Hilliard | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | 14.25% | 10% | 10.44 | 3.48 | 3.890 | 3.920 | 0.065 ² 0.0583 |
| Marblecliff | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | N/A | N/A | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Minerva Park | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | .55 / .274D | .085 | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| New Albany | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | N/A | N/A | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Obetz | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | N/A | N/A | N/A | N/A | N/A | N/A | 0.0583 |
| Ridgewood | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | 10% | 10% | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Riverlea | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | N/A | N/A | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Upper Arlington | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | 10% | 18% | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Urbancrest | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | .20 / 1.08M | .20 / 1.08M | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Valleyview | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | N/A | N/A | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Village Park | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | 10% | 10% | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Whitehall | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | N/A | N/A | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |
| Worthington | 36.75 | 8.41 | 3.606 | 3.104 | 2.405 | 2.270 | 2.003 | 1.971 | .075 | .075 | 10.44 | 3.48 | 3.890 | 3.920 | 0.0583 |

¹ For 5/8" meter only-larger meters, see Service Charge Rate Sheet
² Columbus Stormwater Charge / Hilliard Stormwater Effective 4/1/10
³ County Rural Rate where county sewer maintenance fee is applicable
 Minerva Park water surcharge revised 4/19/04-\$100.00 annual charge added (.274 per day) / surcharge per ccf changed from \$.46 to \$.55
 D-Charge per day (Minerva Park)
 Grandview surcharges started 7/1/04
 %-Percent of water or sewer commodity charges=surcharge
 M-Minimum surcharge per month

MASTERMETERED ACCOUNTS - WATER / SEWER CHARGES EFFECTIVE JANUARY 1, 2011

| | | SERVICE CHARGE | | WATER COMMODITY | | SEWER CHARGES | | |
|---|----------------|----------------|------------|------------------|---------|-----------------|--------------------------|------------------|
| METER NUMBER | ACCOUNT NUMBER | RATE CODE | METER SIZE | BILL CHG PER MO. | PER CCF | BILL CHG PER MO | COMMODITY CHARGE PER CCF | CLEAN RIVER FUND |
| BEXLEY 52995/1174174 | | | | | | | | |
| 12593148 | | WQBX | 10" | 434.89 | 2.471 | 10.44 | 3.890 | 0.0583 |
| 01571414 | | WQBX | 8" | 394.10 | | | | |
| 00012363 | | -- | 6" | 280.92 | | | | |
| 00012358 | | -- | 6" | NC | | | | |
| GAHANNA 53164/1001613 | | | | | | | | |
| 12086506 | | WMGA | 12" | 444.71 | 2.471 | 10.44 | 3.890 | 0.0583 |
| 03860289 | | WMGA | 10" | 434.89 | | | | |
| 01227205 | | WMGA | 10" | 434.89 | | | | |
| 01530504 | | WMGA | 8" | 394.10 | | | | |
| 12835462 | | WMGA | 8" | 394.10 | | | | |
| 00002327 | | -- | 6" | NC | | | | |
| 06028476 | | WMGA | 10" | 434.89 | | | | |
| 09802261 | | WMGA | 8" | 394.10 | | | | |
| 02031710 | | WMGA | 12" | 444.71 | | | | |
| 00012469 | | -- | 4" | NC | | | | |
| REYNOLDSBURG 63193/1190250 | | | | | | | | |
| 12086505 | | WMRY | 12" | 444.71 | 2.471 | 10.44 | 3.890 | 0.0583 |
| 09705010 | | WMRY | 10" | 434.89 | | | | |
| 00538423 | | WMRY | 6" | 280.92 | | | | |
| 02031709 | | WMRY | 12" | 444.71 | | | | |
| 00005738 | | WMRY | 10" | 434.89 | | | | |
| 92078690 | | WMRY | 12" | 444.71 | | | | |
| RICKENBACKER AIRPORT 527355-1284808 | | | | | | | | |
| | | WQEH | 10" | 434.89 | 2.471 | 10.44 | 3.890 | 0.0583 |
| OBETZ 315397/1257479 | | | | | | | | |
| 23863601 | | WMOZ | 6" | 280.92 | 2.471 | | 3.890 | |
| 09205658 | | WMOZ | 8" | 394.10 | | | | |
| 07115197 | | WMOZ | 10" | 434.89 | | | | |
| 95006589 | | WMOZ | 10" | 434.89 | | | | 0.0583 |
| 09707352 | | WMOZ | 8" | 394.10 | | | | |
| 97042520 | | WMOZ | 6" | 280.92 | | | | |
| 09215936 | | WMOZ | 10" | 434.89 | | | | |
| FRANKLIN COUNTY 101486/1029056 LINCOLN VILLAGE | | | | | | | | |
| 01426962 | | WMLV | 8" | 394.10 | 2.471 | | 3.890 | 0.0583 |
| 01426963 | | WMLV | 8" | 394.10 | | | | |
| FRANKLIN COUNTY 101434/1135655 RICKENBACKER | | | | | | | | |
| 09211276 | | WMRB | 8" | 394.10 | 2.471 | 10.44 | 3.890 | 0.0583 |

2011 Average Bill Chart (RESIDENTIAL)

| # of People | CCF | Columbus | Whitehall | Dublin | Grove City | Hilliard | Upper Arlington | Worthington | Urbancrest | Non Contract | Village Prk Galloway | Marble Cliff |
|-------------|-----|----------|-----------|---------|------------|----------|-----------------|-------------|------------|--------------|----------------------|--------------|
| 0 | 0 | 52.22 | 40.92 | 40.92 | 46.92 | 46.77 | 40.92 | 40.92 | 47.40 | 44.80 | 40.92 | 40.92 |
| 1 | 8 | 99.34 | 96.07 | 107.19 | 104.59 | 108.46 | 104.08 | 97.27 | 99.27 | 103.65 | 101.59 | 103.15 |
| | 10 | 111.13 | 109.86 | 123.76 | 119.01 | 123.88 | 119.87 | 111.36 | 113.86 | 118.37 | 116.76 | 118.70 |
| 2 | 16 | 146.73 | 151.56 | 173.80 | 162.28 | 170.54 | 167.61 | 153.96 | 157.96 | 162.89 | 162.63 | 165.74 |
| | 20 | 170.04 | 180.48 | 208.28 | 193.88 | 202.91 | 200.66 | 183.48 | 188.48 | 193.87 | 194.44 | 198.33 |
| 3 | 24 | 195.92 | 209.40 | 242.76 | 225.48 | 235.29 | 233.72 | 213.00 | 219.00 | 224.84 | 226.25 | 230.92 |
| | 30 | 232.82 | 252.78 | 294.48 | 272.88 | 283.86 | 283.30 | 257.28 | 264.78 | 271.30 | 273.97 | 279.80 |
| 4 | 32 | 245.11 | 267.24 | 311.72 | 288.68 | 300.05 | 299.83 | 272.04 | 280.04 | 286.79 | 289.87 | 296.10 |
| | 40 | 294.31 | 325.08 | 380.68 | 351.88 | 364.81 | 365.94 | 331.08 | 341.08 | 348.74 | 353.49 | 361.27 |
| 5 | 40 | 294.31 | 325.08 | 380.68 | 351.88 | 364.81 | 365.94 | 331.08 | 341.08 | 348.74 | 353.49 | 361.27 |
| | 50 | 355.80 | 397.37 | 466.87 | 430.87 | 445.75 | 448.58 | 404.87 | 417.37 | 426.17 | 433.02 | 442.74 |
| 6 | 48 | 343.50 | 382.91 | 449.63 | 415.07 | 429.56 | 432.05 | 390.11 | 402.11 | 410.69 | 417.11 | 426.45 |
| | 60 | 417.29 | 469.67 | 553.07 | 509.87 | 526.70 | 531.22 | 478.67 | 493.67 | 503.61 | 512.55 | 524.22 |
| 7 | 56 | 392.69 | 440.75 | 518.59 | 478.27 | 494.32 | 498.16 | 449.15 | 463.15 | 472.63 | 480.74 | 491.63 |
| | 70 | 478.78 | 541.97 | 639.27 | 588.87 | 607.64 | 613.86 | 552.47 | 569.97 | 581.04 | 592.07 | 605.69 |
| 8 | 64 | 441.88 | 498.59 | 587.55 | 541.47 | 559.08 | 564.27 | 508.19 | 524.19 | 534.58 | 544.36 | 556.80 |
| | 80 | 540.27 | 614.27 | 725.47 | 667.87 | 688.59 | 696.50 | 626.27 | 646.27 | 658.48 | 671.60 | 687.16 |
| 9 | 72 | 491.07 | 556.43 | 656.51 | 604.67 | 623.83 | 630.38 | 567.23 | 585.23 | 596.53 | 607.98 | 621.98 |
| | 90 | 601.76 | 686.56 | 811.66 | 746.86 | 769.54 | 779.13 | 700.06 | 722.56 | 735.91 | 751.13 | 768.63 |
| 10 | 80 | 540.27 | 614.27 | 725.47 | 667.87 | 688.59 | 696.50 | 626.27 | 646.27 | 658.48 | 671.60 | 687.16 |
| | 100 | 663.25 | 758.86 | 897.86 | 825.86 | 850.48 | 861.77 | 773.86 | 798.86 | 813.35 | 830.65 | 850.10 |
| 11 | 88 | 589.46 | 672.10 | 794.42 | 731.06 | 753.35 | 762.61 | 685.30 | 707.30 | 720.43 | 735.22 | 752.34 |
| | 110 | 724.74 | 831.16 | 984.06 | 904.86 | 931.43 | 944.41 | 847.66 | 875.16 | 890.78 | 910.18 | 931.57 |
| 12 | 96 | 638.65 | 729.94 | 863.38 | 794.26 | 818.10 | 828.72 | 744.34 | 768.34 | 782.37 | 798.84 | 817.51 |
| | 120 | 786.23 | 903.45 | 1070.25 | 983.85 | 1012.37 | 1027.05 | 921.45 | 951.45 | 968.22 | 989.71 | 1013.05 |

BASED ON 5/8" METER FOR 90 DAYS