

A report by the Staff of the Public Utilities Commission of Ohio

Ohio American Water Company

Case No. 07-1112-WS-AIR













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STAFF'S REPORT OF INVESTIGATION

In the Matter of the Application of Ohio)	
American Water Company to Increase its)	Case No. 07-1112-WS-AIR
Rates for Water and Sewer Service)	
Provided to its Entire Service Area.)	

Submitted to The Public Utilities Commission

BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the Application of Ohio)	
American Water Company to Increase its)	Case No. 07-1112-WS-AIR
Rates for Water and Sewer Service)	
Provided to its Entire Service Area.	ĺ	

Alan R. Schriber, Chairman Paul A. Centolella, Commissioner Ronda Hartman Fergus, Commissioner Valerie A. Lemmie, Commissioner Cheryl L. Roberto, Commissioner

To The Honorable Commission:

In accordance with the provisions of R.C. Section 4909.19, the Commission's Staff has conducted its investigation in the above matter and hereby submits its findings in the within Staff Report.

The Staff Report has been jointly prepared by the Commission's Utilities Department and Service Monitoring and Enforcement Department.

In accordance with R.C. Section 4909.19, copies of the Staff Report have been filed with the Docketing Division of the Commission and served by certified mail upon the mayors of all affected municipalities and other public officials deemed representative of the service area affected by the application. A copy of said report has also been served upon the utility or its authorized representative. Interested parties are advised that written objections to any portion of the Staff Report must be filed within thirty (30) days of the date of the filling of said report after which time the Commission will promptly set this matter for public hearing. Written notice of the time, place, and date of such hearing will be served upon all parties to the proceeding.

The Staff Report is intended to present for the Commission's consideration the results of the Staff's investigation. It does not purport to reflect the views of the Commission nor should any party to said proceeding consider the Commission as bound in any manner by the representations or recommendations set forth therein. The Staff Report, however, is legally cognizable evidence upon which the Commission may rely in reaching its decision in this matter. (See *Lindsey v. Pub. Util. Comm.*, 111 Ohio St. 6 (1924)).

Respectfully submitted,

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Service Monitoring and Enforcement Department

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STAFF ACKNOWLEDGEMENTS

The Staff Report components reflect the results of investigations conducted by the Staff of the Applicant's rate application. The Staff person responsible for each component is shown below:

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BACKGROUND

The Ohio-American Water Company (Applicant) is an Ohio corporation and a public utility supplying water and wastewater service to consumers within the State of Ohio. The Applicant is a subsidiary of the American Water Works Company, a company which since January 10, 2003 has been owned and managed by RWE AG, one of the world's largest utility groups.

The Applicant provides water and wastewater service to eight districts in the state of Ohio: Ashtabula District, Lawrence County District, Marion District, Tiffin District, Franklin County District, Mansfield District, Lake White District, and Portage County District. For this proceeding, and consistent with how the Applicant refers to its divisions, Water A refers to the Ashtabula, Lake White, Lawrence County, Mansfield, Marion, and Tiffin districts. Water C refers to the water operations of the Franklin County district and the Portage County district. Wastewater refers to the sewer operations of the Franklin County district.

All eight districts with the exception of Lawrence County, Portage County, and a portion of the Marion district have their own water treatment plants. Only the Franklin County District provides sewer services. The Lawrence County District purchases all of its water from the Huntington Water Company, a subsidiary of the American Water Works Company located in West Virginia. The Portage County District purchases all of its water from Portage County Water Resources. The Preble County area of the Marion District purchases all of its water from the Richmond District of Indiana-American, also a subsidiary of the American Water Works Company.

On October 12, 2007 the Applicant filed a notice of intent to file an application for an increase its water rates in its entire service area, and its sewer service rates in the Franklin County District where it provides sewer services. The Applicant requested a test year period beginning April 1, 2007, and ending March 31, 2008, and a date certain as of June 30, 2007. By its Entry of November 7, 2007, the Commission approved the requested date certain and test year period.

On November 13, 2007, the Applicant filed an application for the permanent rate increase together with the Standard Filing Requirements. The Applicant's rate application included a revenue requirement calculation and cost of service study for each of its Water A, Water C, and Wastewater service areas.

Applying the Applicant's proposed rates to the related test year meter billings and sales volumes would generate additional base rate revenues of approximately \$3,158,322 for Water A, \$1,204,459 for Water C, and \$1,120,227 for Wastewater, which represents an increase of 11.96%, 30.08%, and 36.61% respectively over total current operating revenues.

OPERATING INCOME AND RATE BASE

SCOPE OF INVESTIGATION

The scope of the Staff's investigation was designed to determine if the Applicant's filed exhibits concerning the test year operating income, rate base and other data were reasonable for ratemaking purposes, and if the financial and statistical records supporting this data could be relied upon. The Staff's investigation of test year operating income included verification of the test year operating revenue computation, and an examination of the reasonableness and appropriateness of the test year operating expenses. The original cost of property was tested for reasonableness through an examination of the Applicant's continuing property records. In addition, the existence and the used and useful nature of the assets were verified through physical inspections. Other independent analyses were performed as the Staff considered necessary under the circumstances. The Staff interviewed the Applicant's management personnel and reviewed both internal and published financial reports to assure understanding of the Applicant's operation and organization.

The Applicant proposed various adjustments to operating income and rate base as summarized on the Applicant's schedules. The Staff reviewed and analyzed the Applicant's proposed adjustments to operating income and rate base and traced them to supporting workpapers and to source data. As a result of its reviews and analyses, the Staff accepted some of the proposed adjustments as appropriate, changed some of the proposed adjustments using alternative approaches, and/or proposed new adjustments as required to make the test year operating income and date certain rate base consistent with sound regulatory accounting practices, more representative of normal operations and appropriate for ratemaking purposes.

The purpose of the Staff's investigation was to develop financial data for ratemaking purposes; it was not intended to provide a basis for expressing an opinion on the financial statements of the Applicant as a whole. The following sections of this report summarize the results of the Staff's investigation, which it believes are relevant to the determination of test year operating income and rate base.

REVENUE REQUIREMENTS

As shown on Schedule A-1, the Staff recommends a revenue increase range between: \$877,134 and \$1,191,976 for Water A; \$1,204,459 for Water C; and \$1,120,249 for Wastewater. This represents an increase over test year operating revenues of 3.31% to 4.50% for Water A, 29.97% for Water C, and 37.08% for Wastewater. This determination is based on the Staff's examination of the accounts and records of the Applicant for the test year ending March 31, 2008, and the date certain as of June 30, 2007. The results of its examination are summarized in this report and the schedules which incorporate the Staff's recommended rate of return, rate base, and adjusted test year operating income.

RATE BASE

The rate base represents the Applicant's net investment in plant, and other assets as of the date certain, June 30, 2007, which were used and useful in providing water and or wastewater services to its customers and upon which its investors are entitled to the opportunity to receive a fair and reasonable rate of return.

The Staff's analysis of the rate base is divided into Plant in Service, Depreciation Reserve, Construction Work in Progress, Working Capital, and Other Rate Base Items. A comparison of the rate base submitted by the Applicant and that, which is recommended by the Staff, is shown on Schedule B-1. Schedules B-2 through B-7 provide additional support for the Staff's findings.

Plant in Service

The plant in service, as presented by the Applicant, is the surviving original cost of the plant that is used and useful in providing water and or wastewater services to its customers.

The Applicant maintains its property records by district. The Mansfield district has ten physically separate systems. The Franklin County district has five separate systems and wastewater includes three treatment plants.

The Staff recommends that the Commission order the Applicant to either revise their balance sheet to reflect the Staff adjustments made in Schedules B-2.1a1, B-2.2a2, B-2.2a3, B-2.2a4, B-2.2b1, and B-2.2c1 prior to filing their next application for an increase in rates or require the Applicant to have their Public Accounting Firm file a letter stating why they believe the Applicant should not reflect these adjustments on its balance sheet.

Water A Plant

As a result of its investigation, the Staff recommends certain adjustments be made to the Applicant's date certain plant investment for ratemaking purposes. These adjustments are identified below, summarized on Schedule B-2.2a and reflected on Schedule B-2.1a.

Counter and Wall Panels Exclusion

The Staff adjusted Account 390, Structures and Improvements, to exclude counter and wall panels, which were determined to be not used and useful in the prior four rate cases and in this case. The original cost of these panels is \$3,590. This adjustment is shown on Schedule B-2.2a1.

Land Exclusion

The Staff adjusted Account 310 – Land and Land Rights, to exclude land in the Marion District deemed not used and useful at date certain in the prior two rate cases. The Staff however, included \$7,013, or 6.4 acres of this land for wellhead protection around Well #32. This adjustment is shown on Schedule B-2.2a2.

Lake White Plant Reclassification and Exclusion

The Applicant acquired Lake White on September 30, 1999. The Applicant's calculation of the date certain balance of Lake White plant in service is based on the original cost of Lake White as of December 31, 1997, plus capital improvements made by the Applicant in 1999.

The Staff reviewed the Applicant's calculation of Lake White plant in service and proposes the same two adjustments made in the Applicant's last four base rate cases. The first adjustment is to reclassify several capital improvements to the proper plant accounts. The second adjustment is to include legal costs for \$19,679 and to exclude electric pumping equipment for \$32,899, water treatment equipment for \$3,149, and land for \$2,036, all deemed not used and useful at date certain. The Staff's adjustment is shown on Schedule B-2.2a3.

Plant Exclusions

In the Applicant's prior two rate cases, the Staff adjusted four plant accounts to exclude several items from the Applicant's date certain plant investment. Among the plant items excluded by the Staff was a thirty acre parcel of land in Mansfield and two personal computers, all of which were deemed not used and useful for ratemaking purposes. A PH meter and a Zeta Meter were not located during the Staff's field inspection and therefore, excluded. Lastly, the Staff excluded ten items from Account 325 — Electric Pumping Equipment that were not located during field inspection. Because the Applicant's books as of June 30, 2007 did not reflect these adjustments, the Staff proposes these adjustments again in this case.

In this case, the Staff excluded one item from the Applicant's date certain plant investment. The Staff's excluded the costs associated with the attempted rehabilitation of Well #15 at the Marion plant. This well collapsed and, therefore, was not in service at the time of the Staff's field inspection. This adjustment is shown on Schedule B-2.2a4.

Corporate Office Reclassification

The Applicant allocated 100% of Marion corporate office plant investment to Water A plant investment. The corporate office provides service to Water A, Water C, and Wastewater operations. In its application, the Applicant reclassified its corporate plant investment from Water A to Water A, Water C and Wastewater operations. However, the Applicant numbers were as of December 31, 2005, the date certain of the prior case. The Staff removed the Applicant's reclassified corporate office plant from Water A. Water C and Wastewater and redistributed it to Water A, Water C and Wastewater using the numbers in the Applicant's books as June 30, 2007, the date certain of this case. The Staff allocated the corporate plant investment to Water A, Water C, and Wastewater on the basis of gross plant allocation factors. In future cases, the Staff recommends that the Applicant remove the date certain amount of the corporate office plant from the Marion General Plant Accounts and distribute it to Corporate Office General Plant Accounts for Water A, Water C and Wastewater. The Staff's adjustment is shown on Schedule B-2.2a5.

Exclusion of Corporate Office Plant

This adjustment recognizes the exclusions agreed to in the Applicant's previous rate case less retirements that occurred from December 31, 2005 through June 30, 20007. The Staff also reduced by 25% the date certain balance of the land and outer shell of the Marion Corporate Office Building deemed not used and useful. The Staff's adjustment is shown on Schedule B-2.2a6.

Water C and Wastewater Plant and Adjustments

The Staff's adjustments to Water C and Wastewater are identified below and presented on Schedules B-2.2b, and B-2.2c; and reflected on Schedules B-2.1b, and B-2.1c.

2002 Plant in Service Adjustment

The Staff's 2002 plant in service adjustment for Water C and Wastewater is a reconciliation of plant in service reflected in the two prior rate cases. These adjustments are reflected on Schedule B-2.2b1 for Water C and B-2.2c1 for Wastewater.

Brimfield Pumping Plant Exclusion

Portage County provides water to the Portage County District by virtue of a purchase water agreement. Therefore, the Staff excluded all source of supply and pumping plant as not being used and useful in the prior case. The Applicant transferred the plant investment associated with this item to exclude it from the rate base, however, the combination of the Applicant's transferred amounts and the retirement amounts did not equal the total amount the Staff excluded in the prior case. The difference between the Staff and the Applicant's exclusion represents the adjustment shown on Schedule B-2.2b2.

Corporate Office Reclassification Adjustment

Consistent with the Staff's adjustments to corporate office plant investment as discussed above in Water A, the Staff redistributed the plant investment associated with the date certain balance of the Marion Corporate Office from Water A to Water A, Water C and Wastewater on the basis of the gross plant allocation factors. The Staff's corporate office reclassifications are shown on Schedules B-2.2b3 and B-2.2c2 and are carried forward on Schedules B-2.1a, B-2.1b and B-2.1c.

Corporate Office Plant Exclusion

Also, consistent with the Staff's adjustments to corporate office plant investment as discussed above in Water A, the Staff excluded the Applicant's reclassified corporate office plant from Water A, Water C and Wastewater. The Staff's corporate office exclusions are reflected on Schedules B-2.2b4 and B-2.2c3.

Depreciation

Depreciation accounting is the process which distributes the original cost of depreciable assets, adjusted for net salvage, over the normal useful life of the property in a systematic and rational manner. The Staff's investigation of depreciation is segregated into two areas: Depreciation Reserve, and Depreciation Accrual Rates and the corresponding Depreciation Expense. Each of these areas is discussed in detail in the following sections.

Depreciation Reserve

Water A

The Applicant maintains its depreciation reserve by account and on a district basis. In order to determine if the Applicant's booked reserve for depreciation is proper and adequate, the Staff generally finds it useful to compare the booked reserve with a theoretical reserve. The Staff compared the Applicant's booked reserve with a calculated theoretical reserve, based on the current accrual rates and June 30, 2007 plant balances. The results of this study indicated a difference between the actual and the theoretical reserves of 1.79%.

According to the stipulation in Case No. 99-1038-WW-AIR, the amortization of the depreciation reserve deficiency for the years 2000 and 2001 was \$109,550 unless changed by a Commission order(Jt.Ex.1,at4) or the Applicant filed a rate case by June 30, 2001. The amortization of the reserve deficiency beginning January 1, 2002 and thereafter is \$359,955 as was granted in Case No. 91-1318-WW-AIR.

The Staff recommends that the Commission discontinue the current annual amortization of \$359,955 for purposes of this proceeding. The Staff will continue to monitor the reserve in future cases.

The Staff adjusted the Applicant's depreciation reserve to exclude the reserve associated with the adjustments discussed in the Plant in Service section. In addition, the Staff adjusted Land and Land Rights to remove the impact of a retirement recorded to land. Also, the Staff excluded reserve that was not associated with Water A but rather with Water C and Wastewater.

These adjustments are shown on Schedule B-3.1a. The Staff is of the opinion that the actual jurisdictional reserve, as adjusted by the Staff and shown on Schedule B-3a, is proper and adequate and should be used for purposes of this proceeding.

Water C

The Applicant maintains its depreciation reserve by account. In order to determine if the Applicant's booked reserve for depreciation is proper and adequate, the Staff generally finds it useful to compare the booked reserve with a theoretical reserve. The Staff compared the Applicant's booked reserve with a calculated theoretical reserve, based on the current accrual rates and June 30, 2007 plant balances. The results of this study indicated a difference between the actual and the theoretical reserves of -1.53%. Therefore, it is the Staff's opinion that the actual jurisdictional reserve for depreciation, as adjusted by the Staff on Schedule B-3, is proper and adequate and should be used for purposes of this proceeding.

The Staff adjusted the Applicant's depreciation reserve to exclude the reserve associated with the adjustments discussed in the Plant in Service section. The Staff also adjusted the reserve to exclude the reserve associated with Brimfield and the reserve that was not associated with Water A but rather with Water C.

These adjustments are shown on Schedule B-3.1b. In addition, the Staff made an adjustment to exclude Contributions in Aid of Construction from the depreciation reserve as shown on B-6.

The Staff is of the opinion that the actual jurisdictional reserve, as adjusted by the Staff and shown on Schedule B-3b, is proper and adequate and should be used for purposes of this proceeding.

Wastewater

The Applicant maintains its depreciation reserve by account. In order to determine if the Applicant's booked reserve for depreciation is proper and adequate, the Staff generally finds it useful to compare the booked reserve with a theoretical reserve. The Staff compared the Applicant's booked reserve with a calculated theoretical reserve, based on the current accrual rates and June 30, 2007 plant balances. The results of this study indicated a difference between the actual and the theoretical reserves of 4.21%. Therefore, it is the Staff's opinion that the actual jurisdictional reserve for depreciation, as adjusted by the Staff on Schedule B-3, is proper and adequate and should be used for purposes of this proceeding.

The Staff adjusted the Applicant's depreciation reserve to exclude the reserve associated with the adjustments discussed in the Plant in Service section. The Staff also excluded the reserve for the retirement of the Frame Mounted Rope Media. These adjustments are shown on Schedule B-3.1c.

In addition, the Staff made an adjustment to exclude Contributions in Aid of Construction from the depreciation reserve as shown on B-6.

The Staff is of the opinion that the actual jurisdictional reserve, as adjusted by the Staff and shown on Schedule B-3c, is proper and adequate and should be used for purposes of this proceeding.

Depreciation Accrual Rates and Depreciation Expense

Water A

The Applicant's current depreciation accrual rates were prescribed by this Commission Case No. 99-1038-WW-AIR. The Staff is of the opinion that the current accrual rates on Schedule B-3.2a are proper and adequate for use in this case.

The Staff's calculation of depreciation expense based on the adjusted jurisdictional plant in service balances at date certain and the accrual rates discussed above, is shown on Schedule B-3.2a.

Water C

The Applicant's current depreciation accrual rates were prescribed by this Commission Case No. 94-1237-WS-AIR. The Staff is of the opinion that the current accrual rates as shown on Schedule B-3.2b are proper and adequate for use in this case.

The Staff's calculation of depreciation expense based on the adjusted jurisdictional plant in service balances at date certain and the accrual rates discussed above, is shown on Schedule B-3.2b.

In addition the Staff's calculation of depreciation expense was reduced by the depreciation expense associated with Contributions In Aid of Construction.

Wastewater

The Applicant's current depreciation accrual rates were prescribed by this Commission Case No. 94-1237-WS-AIR. The Staff is of the opinion that the current accrual rates as shown on Schedule B-3.2c are proper and adequate for use in this case.

The Staff's calculation of depreciation expense based on the adjusted jurisdictional plant in service balances at date certain and the accrual rates discussed above, is shown on Schedule B-3.2c.

In addition the Staff's calculation of depreciation expense was reduced by the depreciation expense associated with Contributions In Aid of Construction.

Construction Work in Progress

The Applicant did not request an allowance for construction work in Progress in its filing. This is reflected on Schedule B-4.

Working Capital

The Applicant did not request an allowance for working capital in its filing. This is reflected on Schedule B-5.

Other Rate Base Items

The rate base was reduced by the date certain balance of customers advances for construction, contributions in aid of construction, accumulated unrestricted investment tax credits, deferred income taxes related to accelerated depreciation, regulatory liabilities and grossed up investment tax credits, and the tank painting reserve. Also, the rate base was increased by the date certain balances of deferred taxes on AFUDC, regulatory assets for AFUDC debt, and deferred depreciation. The Staff did not include waste disposal nor security cost deferred balances in the rate base. The Staff's calculation of other rate base items is provided on Schedule B-6.

ALLOCATIONS

The Applicant maintains separate accounting records for Water A, Water C, and Wastewater. The Marion corporate office operating expenses and the Marion corporate office plant investment are allocated to all three companies by the Applicant.

The following discusses the Staff's proposed allocation factors for this proceeding.

Corporate office plant investment

The allocation factors presented on Applicant's Schedule B-7.1 show an allocation of the corporate office plant investment to Water A, Water C, and Wastewater based on the number of customers as of June 30, 2007.

Staff's Schedule B-7 presents several allocation factors to be applied to the corporate office investments and operating expenses. The Staff proposes that the corporate office plant investment be allocated to each company on the basis of gross plant-inservice and depreciation reserve. The Staff's allocation methodology is consistent with that used by the Staff and approved by the Commission in similar water rate cases. The Staff, therefore, proposes that its allocation factors as computed on Schedule B-7, be used for the purpose of this proceeding.

Corporate office operating expenses

The allocation factor on Applicant's Schedule B-7.1 relative to corporate office operating expenses is based upon the number of customers as of June 30, 2007. The Staff reviewed the Applicant's operating income allocation methodology and found it to be unrepresentative of accepted allocation methodologies for service and administrative costs.

The Staff proposes an operating income allocation factor for each company based upon a seven factor formula calculated from gross plant, depreciation reserve, net plant, employees, payroll, customers, and operating revenues as shown on Schedule B-7. The Staff's allocation factors were developed consistent with the methodologies used by the Staff and approved by the Commission in similar prior water rate cases. The Staff, therefore, proposes that its allocation factors as computed on Schedule B-7, be used for the purpose of this proceeding.

OPERATING INCOME

The Applicant's test year operating income consists of three months of actual data for the period April 1, 2007 through June 30, 2007, and nine months of forecasted data for the period July 1, 2007 to March 31, 2008. The Staff adjusted the Applicant's test year operating income as required to render it appropriate as a basis for setting rates.

The Staff's pro forma operating income is the Staff's adjusted test year operating income modified to reflect the Applicant's proposed increase in revenues and the associated increases in uncollectible accounts expense, Ohio excise taxes, and federal income taxes.

Schedules C-1 and C-2 present the Staff's determination of operating income. The calculations, methodologies and rationale used to develop the Staff's adjusted and proforma operating income are detailed on Schedules A-1.1, C-1.1, C-3.1 through C-3.21, and C-4.

Pro forma Adjustments

Schedule C-1.1 shows the Applicant's proposed increase in operating revenues based on the Applicant's proposed rates and associated increases in uncollectible expenses, Ohio excise taxes, and federal income taxes.

Current Adjustments

Base Revenues

The Applicant and the Staff adjusted base revenues to annualize test year sales volumes using the most recent rates granted by the Commission in case No. 06-433-WS-AIR. The Staff, however, corrected errors in the Applicant's Schedule E-4, Water A, Special Contracts – Industrial for credit adjustments and also on Schedule E-4, Water A Miscellaneous Metered Sales consumption charges. In addition, Staff also corrected errors in the Applicant's Schedule E-4, Wastewater, Residential consumption charges. The Staff's adjustment is presented on Schedule C-3.1.

Other Operating Revenue

The Staff adjusted test year late payment revenues to reflect the Staff's adjustment to operating revenues. The Staff also adjusted test year Activation, Reconnection, and NSF fees to reflect current revenues. The Staff's adjustments are shown on Schedule C-3.2.

Labor and Labor Related Expense

<u>Labor Expense</u>: The Applicant's annualized labor expense reflects estimated employee levels and wages expected at the end of the test year. The Staff's annualized labor expense reflects actual employee levels and wage rates at the end of the test year. The Applicant's test year labor also includes incentive pay based on financial, individual, and operational goals. The Staff adjusted the

incentive pay to exclude the expense associated with the financial goal as Staff is of the opinion that achievement of this goal benefits Ohio American shareholders.

Group Insurance Expense: The Applicant annualized test year medical, life, and disability (group insurance) expense using its projected test year employee wages and insurance premium rates. The Staff annualized test year group insurance expense by using the latest known test year insurance premium and actual employee wages.

Pension Expense and Other Post-Retirement Employee Benefits (OPEB) Expense: The Staff adjusted test year pension and OPEB expenses to eliminate the effect of financing and other non-service related expenses. The Staff then annualized test year pension and OPEB expenses to reflect the estimated service costs using the latest known 2007 Actuarial Valuation Reports. Both the Applicant and the Staff also included the recognition of a ten year amortization of the pension asset in the pension expense.

401K Plan Expense: The Applicant adjusted test year 401K Plan expense using projected test year employee wages and plan rates. The Staff annualized test year 401K Plan expense using the latest known test year company matching policy and actual employee wages.

Employee Investment Plan (EIP) Expense: Both the Applicant and the Staff adjusted the test year EIP expense to reflect the discontinuation of this program.

The Staff's adjustment to labor and labor related expenses is presented on Schedules C-3.3 and C-3.3a.

Purchased Water Expense

The Staff's purchased water expense reflects eleven months of actual consumption, with the twelfth month being an average of the eleven months. The rates used for Lawrence, Preble County and Portage County reflect the latest known rates. The Staff's adjustment is shown on Schedule C-3.4.

Purchased Power Expense

Both the Applicant and Staff adjusted Purchased Power Expense to reflect the historical average fuel and power costs for Water A, Water C, and Wastewater. The Staff's adjustment is presented on Schedule C-3.5.

Chemical Expense

Both the Applicant and Staff adjusted Chemical Expense to reflect the most recent unit chemical cost multiplied by the historical average usage amount for Water A, Water C, and Wastewater. The Staff's adjustment is presented on Schedule C-3.6.

Waste Disposal Expense

The Staff adjusted test year waste disposal expense reflects costs included in the Applicant's last rate case which have not been fully amortized as of the filing of the current application. In addition the Staff excluded amortization costs that will expire the last quarter of 2008.

The Staff and the Applicant recommended an establishment of an accrual for cleaning costs associated with the Ashtabula lagoon. This accrual is based on actual cost not included in this filing. While the Applicant suggests a two year amortization the Staff recommends a three-year amortization of the accrual. The Staff's adjustment is shown on Schedule C-3.7.

Rate Case Expense

The Applicant estimated rate case expense to be \$551,320 for this proceeding, and proposed a two-year amortization period of this amount. The Applicant's estimate of rate case expense is based on a fully litigated case, which involves a complete investigation, hearings, briefs by the Applicant, the Staff, and intervening parties and appeals to a high court if necessary.

The Staff reviewed and compared the Applicant's current estimate of rate case expense to prior rate case expense levels and determined that the Applicant's current estimate is overstated. The Staff believes that an estimate of \$400,000 is reasonable and recommends a three-year amortization period. The Staff's adjustment is shown on Schedule C-3.8.

The Staff recommends that the Commission review the Applicant's revised estimate of the rate case expense which should be submitted as a late filed exhibit before making a final determination of the appropriate level of rate case expense.

Unaccounted-for Water

Pursuant to the Commission's Opinion and Order in Case No. 03-2390-WS-AIR, the Applicant and the Staff reduced test year chemical and power expenses for Ashtabula, Marion, Tiffin and Franklin County districts by the cost of unaccounted-for water above the average of fifteen percent. For Franklin County the Staff

excluded the system delivery associated with Portage County since Portage County purchases its water and does not use chemicals. Additional discussion of unaccounted for water can be found in the Service Monitoring and Enforcement portion of this Staff Report. The Staff's adjustment is shown on Schedule C-3.9.

Insurance Other Than Group Expense

The Applicant adjusted test year insurance other than group expense which includes workers' compensation, property, general liability insurance, executive risk and officer's liability insurance. The Staff adjusted insurance other than group to reflect the latest known insurance premium in effect during the test year. The Staff's adjusted insurance does not include executive risk and officer's liability insurance. The Staff's adjustment is shown on Schedule C-3.10.

Elimination of Net Negative Salvage Costs

Pursuant to FASB 143, the Applicant books net negative salvage costs to test year maintenance expenses. This adjustment eliminates this cost from maintenance expenses. The Staff includes this cost in the depreciation expense adjustment. This adjustment to eliminate this cost from maintenance expense is shown on Schedule C-3.11.

Miscellaneous Operation & Maintenance Expense

The Applicant and the Staff adjusted test year operating expenses to eliminate lobbying expense and nondeductible penalties. Both the Applicant and the Staff adjusted test year operating expenses to include the amortization of the Orcom software regulatory asset reflected in the Stipulation from Case No. 06-433-WS-AIR. The Staff's adjustment can be found on Schedule C-3.12.

Uncollectible Expense

The Staff adjusted test year uncollectible expense to reflect the Staff's adjustment to operating revenue utilizing the test year average ratio of the uncollectible provision to total revenue. The Staff's adjustment is shown on Schedule C-3.13.

Tank Painting Expense

The Applicant and the Staff adjusted test year tank painting expenses by trending the historical painting cost of each tank to test year current cost. These costs were then amortized over the expected lives of each tank painting.

The Staff's calculation of tank painting expense for Water A and C excludes the Applicant's estimated costs for tank inspections. The Staff's adjustment is shown on Schedule C-3.14.

Advertising and Community Expense Adjustment

The Staff adjusted test year operating expenses to exclude advertising costs believed to be either promotional or institutional in nature. The Staff also excluded the test year Community Relations expenses as Staff believes these expenses are associated solely with public relations and goodwill. The Staff's adjustment is shown on Schedule C-3.15.

Social and Service Club Dues Expense

The Staff adjusted test year operating expenses to eliminate social and service club dues believed to be associated with public relations or goodwill. The Staff's adjustment is shown on Schedule C-3.16.

Charitable Contributions

The Staff excluded charitable contribution expenses from test year operating and maintenance expenses. The Staff's adjustment is shown on Schedule C-3.17.

Management Fees

The Applicant and the Staff reduced management fees to reflect the elimination of one-time costs associated with Sarbanes-Oxley. These fees are paid to American Water Works Service Company and should not have been allocated to Ohio. The Staff's adjustment is shown on Schedule C-3.18.

Depreciation and Amortization Expense

Depreciation and amortization expense was adjusted to reflect the Staff's recommended plant in service as of the date certain. This adjustment is provided on Schedule C-3.19, with supporting calculations shown on Schedule B-3.2a, Schedule B-3.2b, and Schedule B-3.2c.

The Staff's adjustment also includes the amortization of Leasehold Improvements. In addition, the Staff included the amortization of regulatory asset-AFUDC and the amortization of deferred depreciation expense for Water A.

Taxes Other Than Income Taxes

Taxes other than income taxes were adjusted to reflect the proper base and latest known rates. For example, property taxes were computed by applying the latest known property tax rate to the property valuation at date certain, and Ohio excise taxes were calculated to reflect taxes based on test year revenues rather than on the basis of total receipts for a different fiscal period.

Schedule C-3.20 provides the summary of the calculated taxes and the resultant adjustments of those taxes. The supporting calculations are detailed on Schedules C-3.20a through C-3.20e.

Federal Income Tax

The Staff computed test year federal income taxes to reflect the recommended adjustments to operating revenues and expenses. This computation reflects the inter-period interest allocation, ratable flow through of investment tax credit, and normalization of tax-accelerated deprecation, tank painting expense, rate case expense, waste disposal expense, post-retirement employee benefits expense, uncollectible expense, and other temporary differences.

Schedule C-3.21 shows the calculation of the federal income tax adjustment. Schedule C-4 shows the detailed calculation of federal income taxes.

RATE OF RETURN

The Staff recommends a rate of return in the range of 7.96% to 8.38%. The recommended rate of return was developed using a cost of capital approach which reflects the Applicant's market-derived cost of equity, the Applicant's embedded cost of long-term debt and preferred stock, and the embedded capital structure of the Applicant.¹

Capital Structure

The Applicant is a wholly-owned subsidiary of American Water Works, Inc. In the Applicant's prior cases, the Staff determined that the appropriate capital structure to be used in the rate of return analysis was that of the Applicant, rather than the parent consolidated capital structure. This determination was based on the level of revenues contributed by the utility subsidiaries and the level of equity financing which those subsidiaries maintained. The Staff believes that the use of the Applicant's capital structure is still appropriate.

Cost of Long Term Debt

The Staff employed the embedded cost of long term debt of the Applicant, Ohio American Water Company, as of June 30, 2007. In the calculation of the weighted cost of debt, the Staff divided the annual interest by the carrying value. The debt calculation includes the effect of unamortized debt expense on both the interest cost and the carrying value. Staff determined the embedded cost of long term debt to be 6.17%.² In the calculation of the weighted cost of preferred stock, the Staff divided the annual interest by the carrying value. The preferred stock calculation includes the effect of unamortized issuance expense on the carrying value. Staff determined the embedded cost of preferred stock to be 8.48%.³

Cost of Common Equity

As the stock of the Applicant is not traded on the market, the Staff looked to proxies to determine the cost of common equity for the Applicant. The Staff considered a group of water utilities which are representative of the industry for purposes of cost of equity

¹ See Schedule D-1.

² See Schedule D-1.2.

³ See Applicant's Schedule D-4.

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estimation. This group consists of publicly traded companies, listed as "Water Utilities" by MSN Investor with a market capitalization above \$250 million, and included in the "Water Utility" group in the Value line Investment Survey Standard Edition. The result is a comparable group of five, which includes the following companies:

Company Name	<u>Ticker</u>
American States Water Company	AWR
California Water Service Group	CWT
Southwest Water Company	SWWC
Aqua America, Inc.	WTR

The Staff employed a cost of equity estimate for the comparable group companies that is the average of their capital asset pricing model (CAPM) and discounted cash flow (DCF) derived estimates. In calculating its CAPM cost of common equity estimate, the Staff employed the average of the Value Line betas, being 1.0125 and the Ibbotson⁴ derived spread of arithmetic mean total returns between large company stocks and long term government bonds (i.e., "risk free return"; 6.5%). These were used in the CAPM formulation with the weighted average of 10 year and 30 year daily closing Treasury yields for the period from March 21, 2007 through March 20, 2008. The weighting was done in a manner that emphasized later quarters to a greater degree. The averaged 10 year yield is 4.11%. The averaged 30 year yield is 4.60%. These average to 4.36%. This was added to the product of the beta and the 6.5% spread, and resulted in a CAPM cost of equity estimate of 10.94%.⁵

In calculating its DCF cost of common equity estimate, for each comparable company, the Staff employed the annual average stock price, the sum of the last four quarterly dividends, estimates of the expected rate of growth of earnings, and generic issuance costs related to the external equity financing. The stock price employed is the average daily closing price for the period from March 21, 2007 through March 20, 2008.

The DCF model assumes that earnings growth and dividends growth are the same. The Staff averaged earnings per share estimates from Reuters, Yahoo, MSN, and Value Line to get DCF growth estimates for each company.⁶ The Value Line average incorporates both the explicit long-range earnings estimate shown in the "box" and the implicit continuous growth rate calculated from the estimates of earnings per share.

For the Staff's determination of DCF cost of equity, a non-constant DCF growth rate was assumed. Dividends were assumed to grow at a rate derived from financial analysts' growth estimates for the first five years (i.e., long term growth rate). The Staff's DCF growth estimates were used for the first five years, as they are averages of

⁴ Ibbotson Associates <u>2007 Yearbook: Stocks, Bonds, Bills and Inflation: Valuation Edition</u>

⁵ See Schedule D-1.3.

⁶ See Schedule D-1.4.

estimates from various investor news services. From the twenty-fifth year on, the growth rate was assumed to equal the long-term growth rate in GNP. For the sixth through twenty-fourth years, dividends vary between the two rates in a linear fashion.⁷ The long-term growth rate in GNP was the average annual change in GNP from the U. S. Department of Commerce for 1929 through 2005.⁸

Based on long-term GNP growth, the respective company DCF growth estimate and dividend, a stream of annual dividends was calculated. The internal rate of return derived from the dividend stream and the stock price was used for Staff's non-constant growth DCF cost of equity estimate.

The comparable group non-constant DCF cost of equity estimates average 10.29%. When averaged with the 10.94% CAPM estimate, the result is 10.62%. Using a one-hundred basis point range of uncertainty, the cost of equity estimate becomes 10.12% to 11.12%. To provide for this return, allowance must be made for issuance and other costs, as shown on Schedule D-1.1, resulting in an adjustment factor of 1.03619. Applying this factor to the baseline cost of common equity range results in a recommendation of 10.48% to 11.52%.

⁷ See Schedules D-1.5 through D-1.8.

⁸ See Schedule D-1.9.

⁹ See Schedule D-1.1.

RATES AND TARIFFS

INTRODUCTION

In this proceeding, the Ohio-American Water Company (Applicant or Company) requests authority to increase its rates and charges for general water service to all classes of customers. Applicant is a large water company. Ohio-American acquired Citizens Utilities effective September 7, 2000, and blended the two tariffs into one tariff in Case No. 03-2390-WS-AIR while retaining separate rates for service. The Applicant's current rates became effective March 7, 2007, in Case No. 06-433-WS-AIR. The Applicant now requests an increase in rates and charges to all Company districts that, if approved, will generate additional revenue of \$5,483,008 representing a 16.8% increase in the current revenue.

Rates & Tariffs Staff has investigated the rate and tariff matters proposed by the Applicant. The results of Staff's investigation are reported herein. It is the Staff's intent to provide analysis with respect to the acceptability and reasonableness of the revenue recovery mechanisms contained in Applicant's proposed tariffs. Staff has not recommended specific rates and charges, but rather focused on formulas/percentages/or direction to be applied to the authorized revenue. Typical customer bills under Applicant proposed rates are presented at the end of this section.

TARIFF ANALYSIS

General

Staff has found a few incorrect references or typos that need correcting within the Applicant's tariff. This is not an issue that warrants discussion in this report, but alerts the Applicant of some minor corrections that need to be addressed. Staff will provide the sites outside of this written report.

Case No. 07-292-WS-ORD

Case No. 07-292-WS-ORD addresses the Commission's 5-year review of Chapter 4901:1-15, Ohio Administrative Code (OAC), Standards for Waterworks Companies and Sewage Disposal System Companies. The Finding and Order for this case were approved by the Commission on March 19, 2008. As a result, Commission directives could not be addressed by the Company at the time of its filing. The Company should

make all changes according to the Commission's Finding & Order when it submits its tariffs for review at the end of this proceeding.

Provisions

The tariff contains no section specifying the Applicant's complaint-handling procedures as required by Rule 4901:1-15-15 (A)(8)(g). Staff recommends the Applicant add to its tariff a new section titled "Complaint Process", include the language on this subject that is specified in Rule 4901:1-15-33, O.A.C., and reference this new section in the Table of Contents and Subject Index.

Section 2 - Definitions

Although Section 21 and the Applicant's various main extension agreements use the term "main extension", the Applicant's tariff does not define this term. Staff recommends the Applicant add to Section 2 the definition specified in Rule 4901:1-15-30 (C)(1), O.A.C.

Although Section 21 and the Applicant's various main extension agreements use the term "related facilities", the Applicant's tariff does not define this term. Staff recommends the Applicant add to Section 2 the definition specified in Rule 4901:1-15-30 (C)(2), O.A.C.

Section 12 – Terms and Conditions of Billing and Payment

Paragraph G of this section concerns incorrect usage quantities in customer bills, and states that the Company will not be bound by such bills. Due to the existence of this limiting language in the tariff, Staff recommends this paragraph also include the requirements governing inaccurate or estimated bills as specified in Rule 4901:1-15-24 (C) through (E), O.A.C. in order that the tariff also reflects the customer's rights when inaccurate or estimated bills have been rendered.

Section 21 -- Extension of Mains

Paragraph (A) of this section states that the Company will extend mains to serve new customers either in accordance with the applicable rules or in accordance with the main extension agreements set forth in its tariff. Staff believes these agreements should be consistent with the applicable rules, and therefore recommends this paragraph be revised by deleting the word "either" in the third line and by substituting "and" in place of "or" in the seventh line. Staff also recommends the sheet-number reference to in the eighth line be corrected to read "63-88".

Water Main Extension and Deposit Agreement

On Original Sheet No. 64, the fourth paragraph of Applicant's Water Main Extension and Deposit Agreement states that the refundable extension deposit account shall be reduced by the amount of the tax so that only the adjusted deposit shall be subject to refund. This paragraph omits, however, any information on how this adjustment is calculated. Staff recommends that the Applicant add to this paragraph a statement that the amount of such tax adjustment shall be determined in accordance with Rule 4901:1-15-30 (H)(2), O.A.C.

Attachment 1 - Notification of Customer Rights

As required by Rule 4901:1-15-15 (D), O.A.C., the Applicant has attached to its tariff a copy of its Notification of Customer Rights (NCR) and included such attachment in the tariff filed with the Application in this case. Staff has reviewed that version of the NCR and has identified the following issues.

- The reconnection and dishonored payment charges appearing in the NCR do not match those in the Applicant's current tariff.
- The NCR omits a statement that customers may obtain upon request a copy of the Commissions standards for waterworks and sewage disposal companies as required by Rule 4901:1-15-16 (G), O.A.C.
- The NCR does not contain the new Public Utilities Commission of Ohio (PUCO) and Office of the Consumers' Council (OCC) contact language that the commission adopted on November 20, 2007 in Case No. 07-1042-AU-ORD.

The Applicant has addressed the above issues by filing late revisions to its NCR (on November 16 and 26, 2007), but those filings were made in the Applicant's <u>prior</u> rate case. Staff recommends the Applicant file in the <u>current</u> rate case an NCR containing these same revisions.

Attachment 2 -- Bill Format

As required by Rule 4901:1-15-15 (D), O.A.C., the Applicant has attached to its tariff a copy of its bill form, and such attachment was included in the tariff filed with the Application in this case on November 13, 2007. Subsequently, the Applicant filed, on December 20, 2007, a revised bill format pursuant to the Commission's Finding and Order in Case No. 07-1042-AU-ORD. Staff has reviewed that subsequent filing and considers the revised bill format to be in compliance with Rule 4901:1-15-23, O.A.C. as well as the revisions to that rule adopted in Case No. 07-1042-AU-ORD. Staff therefore recommends that the Applicant adopt the bill format that was subsequently filed in Case

No. 07-1042-AU-ORD and file that version as a replacement to the version it filed in its application for the pending rate case.

Bills and Payments for Services

The Applicant bills customers monthly and bi-monthly. Charges are billed in arrears. The bills are due 15 days after the billing date, but are not subject to disconnection until 22 days after the billing date. If the bill has not been paid by the 22nd day, then the customer is subject to disconnection upon 15 days prior written notice. Staff finds Applicant's billing and payment procedures reasonable and recommends approval.

Application for Service Form/Establishing Service

The Applicant does not require written application for service. Staff finds an oral contract to be reasonable and recommends approval.

Company Photo Identification

In prior rate cases Staff has reviewed the Company's photo identification which is required in Rule 4901:1-15-11 O.A.C. The Applicant has provided blank versions of the Company's ID. Staff finds the photo identification to be reasonable.

Disconnection Problems

The Applicant has been experiencing situations where a customer that has been disconnected for nonpayment or violation of policy reconnects the service without Company authorization. The Company disconnects the customer again and the customer reconnects a second time. To stop this issue the Company has resorted to digging up the curb stop and disconnecting service. Some customers have responded by digging up the curb stop and reconnecting the service. This has led the Company to take more drastic measures. The Company has exposed the service at the main and removed the Company's service line out of the ground (which had been bored across from the other side of the road).

When other PUCO regulated water companies have experienced this disconnect problem the Commission has authorized the following tariff language:

"When the Company has discontinued customer service under its Tariff, by turning off the curb stop and this proves to be unsuccessful the Company may take whatever actions are necessary to physically disconnect the service. The Company will bill the customer for the out of pocket expenses incurred for disconnection and reconnection." Staff recommends this language be inserted in the Applicant's tariff.

MISCELLANEOUS CHARGES

Late Payment Charge

Applicant's tariff permits 15 days to pay a bill before it is considered past the due date. A late payment charge is not assessed until 20 days after the due date. Staff finds this to be reasonable and recommends approval.

Applicant currently applies a late payment charge of 5%, based on current charges only, and is not compounded on future delinquencies. Staff finds this policy to be reasonable and recommends approval.

Dishonored Payment Charge

Staff finds that a dishonored payment charge is appropriate and should reflect the actual costs incurred by the Company to process such checks. The cost of dishonored payments should not be recovered by customers in general. Such payments decrease the funds available for the utility to meet its obligations with resulting:

- (1) Additions to working capital requirements;
- (2) Increased interest expense associated with short-term borrowing; and
- (3) Labor and non-labor expenses in processing the returned/dishonored payments.

The Applicant's tariff contains a dishonored check charge of \$20.75. Applicant stated in response to Data Request No. 27 that there were 676 dishonored items during the test year. The Applicant provided itemized costs of processing dishonored payments at a charge of \$22.27. Staff has reviewed the information and recommends the dishonored payment charge remain at \$20.75 for all customers.

Account Activation Charge

An Account Activation Charge is assessed to customers for new services as well as for new customers connecting to inactive accounts. The charge is to recover the costs associated with activating an account from those customers who cause the cost to be incurred, rather than from the entire population of customers as a small piece of every bill. It is the administrative costs of turning on water at a new or existing premise and will apply to all customer classes. Staff finds this to be reasonable and recommends approval.

Applicant is not proposing to increase this charge of \$23.10. Staff has reviewed the information contained in Data Request No. 24 which stated that 8,551 Account Activation charges were collected during the test year. The response also itemized costs to be \$24.25. After reviewing the response Staff recommends an Account Activation Charge of \$22.40.

Reconnection Charge

The Applicant's tariff contains a reconnection charge of \$41.65. The Applicant is not proposing to increase this charge.

In response to Data Request No. 26, the Applicant stated there were 4,968 reconnections processed during the test period. In this same response the Applicant submitted itemized costs for reconnection of service, which Staff reviewed. Staff finds that a regular business hours reconnection charge of \$61.00 can be justified and recommends approval. The after hours reconnection charge is at actual cost which Staff finds reasonable and recommends approval.

RATES AND REVENUE ANALYSIS

General guidelines or objectives are followed in Staff's review of rate schedules and designs. The applicable schedules should provide the utility the opportunity to recover the authorized revenue. The various schedules should represent a reasonable distribution of revenue among the various customer groups. The particular schedule should be equitable and reasonable to all customers within a group. The schedules should provide for customer understanding, continuity of rates, and minimal customer impact.

This criterion involves several considerations. The schedules should, to the extent practicable, be predicated upon the costs associated with particular service rendered. Customers receiving like services should experience the same charges and provisions. Also, differences in the applicable charge should be representative of differences in costs.

From a practical rate design standpoint, absolute equality between costs and revenue may be difficult to achieve in the short term. While it may be viewed as equitable to set rates at costs, if there is a substantial divergence from the current rates, the resulting impact on individual customers may be viewed as unreasonable. While supporting cost supported charges, Staff considers such items as the resulting typical customer billing

and the resulting revenue increases. These tests help provide benchmarks with regard to the reasonableness of charges and rate forms. While it is Staff's position that rates should reflect costs, it is also important to consider the continuity associated with the current and proposed pricing structures. This may result in movement towards more closely aligning revenues with costs, rather than an absolute match at a particular time period.

When employing these standards to develop and design a rate, the results should be understandable to the customer billed under the schedule.

REVENUE ANALYSIS

Water A and Water C Defined

To aid the reader in understanding, Water A represents water service to all Ohio American service areas except for Franklin County and Portage County Districts. Water C represents water service to Franklin and Portage County Districts.

Uniform Tariff Pricing

The Company services seven distinct districts in Ohio, four of which have been long standing districts, a fifth district, Mansfield, came under the Company's direction in 1993. Lake White Water Works was acquired in September 1999 and is considered part of the Marion District. The four long standing districts; Marion, Ashtabula, Lawrence County, and Tiffin have been under a uniform tariff pricing structure. They all pay identical rates for like services. One exception is the Marion district, which receives softened water. Because of this additional service, the Marion customers pay a water-softening surcharge that is added to the uniform tariff rate. The other exception is the Mansfield District, which is currently unmetered, sans the Madison system, which is metered. The other two districts are the Franklin County district and the Portage County district which were formerly Citizens Utility districts. These two districts have volumetric rates different from the other five as well as additional surcharges.

Staff realizes there are many benefits to uniform tariff pricing, but also realizes that there is some level of mismatch between revenue recovery and cost occurrence that must occur between the different districts when this is instituted. Staff finds some of the benefits specific to this Company are; (1) less rate applications filed by the Applicant thus reducing rate case expense, (2) rate increase can be shared by all districts, thus reducing the amount of rate increase per customer per filing, (3) less cost to maintain one accounting system, (4) less cost in preparing annual report and tax reporting forms, (5) ease of application and understanding of single billing structure, (6) less cost of bill printing of separate Company headings, (7) less information gathering placed on the

Company's Customer Service Department, and (8) less cumbersome information to be understood by the customers. Staff finds that these benefits and the fact that all districts are providing similar service (except where softened water and unmetered service are provided) outweigh the cost differential between the different districts for this specific Company. Staff, therefore, supports the policy of uniform tariff rates for all districts. Staff recommends that Applicant establish rates that move towards the direction of uniform tariff pricing in the rates as well as in rate design.

Cost of Service Analysis

Cost of service studies (COS) are used to approximate the costs incurred by the utility company in providing service and the appropriate level of cost responsibility for each distinct class of customer. This is accomplished in several steps as described below:

- (1) Functionalization is the separation of total costs of services into two broad categories of Operation and Maintenance (O&M) and Capital cost and the further division of costs to identify the nature of the specific expense item. For example, individual O&M expense items relate to the aspect of operations which directly cause those expenses (e.g. supply, treatment, and transmission and distribution, or administrative in nature). Capital costs are commonly expressed as annual costs related to the level of plant investment.
- (2) Classification is the distribution of the functionalized costs into the general cost categories of base demand, extra-capacity, customer costs and fire protection costs. The extra-capacity demand category is further divided into maximum-day demand and maximum-hour demand. The customer costs category is further divided into meters & services and billing & collecting.
- (3) Allocation is the assignment of cost responsibility to the various customer classes based on the number of customers and the relative demands imposed on the system by the customer classes.

The Applicant submitted total company cost of service studies (COS) for water for all customers and another COS for a single customer (Dragoo) shown separately. The same was true for the wastewater cost of service studies. The water COS were provided for total company costs and not broken out by Water A and Water C. The Applicant submitted cost of service studies using the Base-Extra Capacity method. This method follows the general procedures outlined above and recognizes the idea that costs are incurred by the Company in providing service to both average and above average rates of demand. This study distributes revenue responsibility among the various customer classes. Staff reviewed the Applicant's cost of service study and

found it to be reasonable with consideration for Staff's comments below. The results of Applicant's cost of service study are as follows:

Wtr. A & Wtr. C	Current	Cost of
(Water Only)	Revenue	Service
Class of Service	<u>Distribution</u>	<u>Study</u>
	05.000/	00.700/
Residential	65.82%	66.70%
Commercial & Misc.	14.77	13.00
Industrial	7.74	8.80
Special Contracts-Ind.	1.14	-0- (combined in Industrial)
OPA	5.17	5.60
Special Contracts-Resale	3.66	4.10
Private Fire	1.69	1.80
Misc. Metered Sales	01	Not shown
Total	100.00%	100.00%
	Current	Cost of
(Wastewater Only)	Revenue	Service
Class of Service	<u>Distribution</u>	<u>Study</u>
Residential	90.1%	90.3%
Commercial/Public	8.4	7.8
Dragoo Management	1.5	1. <u>9</u>
Total	100.0%	100.0 %

Revenue Distribution

The following is a comparison of Applicant's proposed revenue distribution and the current revenue distribution. In the instant rate case COS, the Applicant did not break out Miscellaneous Metered Sales but made it a line item in their revenue distribution reports. In prior rate cases, the Applicant has stipulated to change the cost of service study to comport with their E schedules in future rate cases and subsequently doesn't file as such. In the Case No. 06-433-WS-AIR stipulation was the following language: "The Company agrees that in future rate fillings, the cost distribution categories in the cost of service studies will be reconciled to the different class categories, including private fire service in the Schedule E fillings." Staff again recommends that in future rate fillings, the Applicant label the cost distribution categories in their cost of service study identical to the different class categories in the Schedule E fillings (e.g. Misc. Metered Sales). Staff recommends that in the next rate filling if the Schedule E categories do not match the Cost of Service (COS) study(s) that the Staff may, during its investigation, recommend rejection of the COS.

Staff also does not understand why the water COS with Dragoo shown separately would use different customer classifications from the water COS without Dragoo broken out. If there is no reasonable explanation Staff again recommends that the COS filings match the Schedule E filings (with the exception of Dragoo management costs being broken out). Staff would again recommend that in the next rate filing if the Schedule E categories do not match the Cost of Service (COS) study(s), with Dragoo as an exception, that the Staff can, at any time during its investigation, reject the COS and toll the clock until the issue is resolved.

Applicant's Proposed Revenue Distribution Compared to Current Revenue Distribution

A-Water

Class of Service	Percent <u>Current</u>	Applicant <u>Proposed</u>	Change
Residential	62.11%	62.22%	.11%
Commercial & Misc.	15.66	15.69	.03
Industrial	8.91	8.91	-0-
Special Contracts-Ind.	1.32	1.17	(0.15)
Other Public Authority	5.94	5.93	(0.01)
Special Contracts-Resale	4.21	4.22	.01
Private Fire	1.84	1.85	.01
Misc. Metered Sales	01_	01	<u>-0-</u>
Total	100.00%	100.00%	0.00%

Applicant's Proposed Revenue Distribution Compared to Current Revenue Distribution

C-Water

Class of Service	Percent <u>Current</u>	Applicant <u>Proposed</u>	<u>Change</u>
Residential	90.49%	90.87%	.38%
Commercial	8.81	8.53	(.28)
Private Fire	70	<u>.60</u>	<u>.10</u>
Total	100.00%	100.00%	0.00%

Applicant's Proposed Revenue Distribution Compared to Current Revenue Distribution

Wastewater

Class of Service	Percent <u>Current</u>	Applicant <u>Proposed</u>	<u>Change</u>
Residential	90.18%	90.27%	0.09%
Commercial	<u>9.82</u>	<u>9.73</u>	(0.09)
Total	100.00%	100.00%	0.00%

Applicant's Proposed Revenue and Distribution of the Revenue Increase

A-Water

Class of Service	Current Revenue	Proposed Revenue	Revenue Increase	Percent Increase	Distribution of Increase
Residential	\$15,979,286	\$ 17,971,736	\$ 1,992,450	12.47%	63.09%
Commercial	4,029,551	4,530,920	501,369	12.44	15.87
Industrial	2,290,662	2,572,991	282,329	12.33	8.94
Spec. Contracts-Ind.	338,368	338,368	-0-	-0-	-0-
OPA	1,528,434	1,714,454	186,020	12.17	5.89
Special Contracts	1,082,826	1,219,008	136,182	12.58	4.31
Private Fire	474,257	533,858	59,601	12.57	1.89
Misc. Metered	3,025	3,396	371	12.26	01
Total	\$ 25,726,409	\$ 28,884,731	\$ 3,158,322	12.28%	100.00%

Applicant's Proposed Revenue and Distribution of the Revenue Increase

C-Water

Class of Service	Current <u>Revenue</u>	Proposed Revenue	Revenue Increase	Percent <u>Increase</u>	Distribution of Increase
Residential	\$ 3,492,936	\$ 4,602,313	\$ 1,109,377	31.76%	92.11%
Commercial	340,190	432,031	91,841	27.00	7.62
Private Fire	26,902	30,143	3,241	12.05	27
Total	\$ 3,860,028	\$ 5,064,487	\$ 1,204,459	31.20%	100.00%

Applicant's Proposed Revenue and Distribution of the Revenue Increase

Wastewater

Class of Service	Current Revenue	Proposed Revenue	Revenue <u>Increase</u>	Percent Increase	Distribution of Increase
Residential	\$ 2,755,432	\$ 3,769,538	\$ 1,014,106	36.80%	90.53%
Commercial	300,197	406,318	106,121	35.35	<u>9.47</u>
Total	\$ 3,055,629	\$ 4,175,856	\$ 1,120,227	36.36%	100.00%

Staff recommendations are not addressed by specific dollars but rather the general movement of these dollars that should be occurring. Staff recommendations are as follows:

*Water Revenue – Staff finds the greatest disparity between the residential and industrial classes. The residential and industrial classes should be bearing a greater responsibility of the revenue recovery while reducing the commercial class' share. The COS compared to the Applicant proposed revenue distribution also shows Dragoo Management, Special Contracts-Resale (see later discussion under Special Service Contracts/Aqua Ohio Water), and Private Fire to be under recovering also. Staff is recommending that the overall revenue be distributed more in line with the cost of service study. Further Staff is recommending that volumetric rates be calculated such that the revenue increase is distributed according to the cost of service study for each class after the fixed cost charges have been removed.

Sewer Revenue – Staff finds that Dragoo Management revenue apportionment needs to move closer to its share of the costs while reducing the commercial/public share.

Customer Charge

The Applicant's tariff contains a customer charge with no water entitlement. The Applicant is proposing to increase its customer charge from \$9.41 to \$10.59. In the E-3 schedule the Applicant states that they did not use Staff's methodology in their proposed customer charge. Rather the Applicant proposes to increase the customer charge approximately 12.5%.

Staff's Calculation of Customer Charge

	Account Description		<u>Amount</u>
	Variable Expenses per Meter Size: Plant Accounts		
345	Services	\$	8,702,958
346	Meters	Ψ	4,473,712
347	Meter Installations		1,870,912
389	A&G Land		44,411
390	Office Structures and Improvements		1,644,380
391	Office Furniture & Equipment		2,687,904
	Total Customer Plant	\$	19,424,277
	Less: Related Depreciation Reserves		
345	Services	\$	8,389,534
346	Meters		1,332,649
347	Meter Installations		659,670
389	A&G Land		-0-
390 391	Office Structures and Improvements Office Furniture & Equipment		475,566 1,420,622
381	Office Furniture & Equipment		1,420,022
	Total Customer Depreciation Reserves	\$	12,278,041
	Total "Customer Rate Base"	\$	7,146,236
	Rate of Return		8.27%
(1)	Return on "Customer Rate Base"	\$	590,994
	Operation & Maintenance Expense Accounts: <u>Transmission & Distribution</u>		
663	Meter Expense	\$	191,852
664	Meter Installation Expense	Ψ	434,820
675	Service Maintenance		147,530
676	Meter & Meter Installation Maintenance		<u>7,534</u>
(2)	Total Operation & Maintenance T&D Expense	\$	781,736
	Variable Taxes per Meter Size:		
	Property Taxes	\$	4,320,184
	Gross Receipts Taxes		1,570,809
	PUCO & OCC Taxes Federal Income Taxes		55,191 <u>1,613,703</u>
	Total Variable Taxes	\$	7,559,887
	I CON TWINING I CINCO	Ψ	, ,000,001

Multiplied by Customer Conversion Factor:

	"Customer Rate Base" Total Rate Base	\$ 7,146,236 \$ 55,754,251		12.82%
(3)	Total Customer Variable Taxes		\$	969,178
	Depreciation Expense Accounts		Pla	nt Accounts
345 346 347 389	Services Meter Meter Installations A&G Land		\$	641,369 235,285 54,363 -0-
390 391 (4)	Office Structures and Improvements Office Furniture & Equipment Total Customer Plant Depreciation	Expense	\$	39,761 294,916 1,265,694
(1) (2) (3) (4)	Summary of Variable Expenses per M Return on "Customer Rate Base" Total Operation & Maintenance T&D E Total Customer Variable Taxes Total Customer Plant Depreciation Ex	xpense	\$	590,994 781,736 969,178 1,265,694
` '	Total	,711 x 12	\$	3,607,602 716,532
	Monthly Customer Variable Charge	,111 × 12	\$	5.0348
901 902	Fixed Expenses per Meter Size: Customer Accounting Expenses: Supervision Meter Reading Expenses		\$	21,883 215,207
903 905 (5)	Customer Records & Collections Miscellaneous Customer Expense Total Customer Accounting Expens	es	\$	451,217 <u>151,516</u> 839,823
	Customer Payroll Related Costs: Payroll Related Taxes times Customer Conversion Factor:		\$	358,143
	Customer Acct. Payroll Total O&M Payroll	\$ 469,806 \$4,089,910		11.49%

(6)	Total Customer Payroll Taxes	\$	41,140
	Total Customer Fixed Expenses		
	Customer Accounting Expenses	\$	839,823
	Customer Payroll Taxes		<u>41,140</u>
	Total	\$	880,963
	Divided by: Total monthly customer billings		405,350
	Monthly Customer Fixed Charge	\$	2.1733
Summ	ary:		
	Monthly Customer Variable Charge for 5/8"	\$	5.0348
	Monthly Customer Fixed Charge	'	2.1733
	Monthly Customer Charge	\$	7.2081
Staff	Recommended Monthly Customer Charge	\$	7.21

Staff recommends that regardless of the amount of revenue authorized by the Commission, Staff's recommended customer charges not be altered.

Customer Charges for all Meter Sizes

Meter Size	Variable <u>Rate</u> (1)	Multiplier (2)	Total <u>Variable</u> (1)*(2)=3	Fixed (4)	$\frac{\text{Total}}{(3)+(4)=(5)}$	Staff Examples (6)
5/8 inch	\$ 5.0348	1	\$ 5.0348	\$ 2.1733	\$ 7.2081	\$ 7.21
3/4 inch	5.0348	1.5	7.5522	2.1733	9.7255	9.73
1 inch	5.0348	2.5	12.5870	2.1733	14.7603	14.76
1 1/2 inch	5.0348	5	25.1740	2.1733	27.3473	27.35
2 inch	5.0348	8	40.2784	2.1733	42.4517	42.45
3 inch	5.0348	15	75.522	2.1733	77.6953	77.70
4 inch	5.0348	25	125.8700	2.1733	128.0433	128.04
6 inch	5.0348	50	251.7400	2.1733	253.9133	253.91
8 inch	\$ 5.0348	80	\$ 402.7840	\$ 2.1733	\$ 404.9573	\$ 404.96

Softening Surcharge

The following chart illustrates the Staff's calculation of the softening surcharges. The Applicant provided cost data relevant to the softening surcharges in response to Data Request No. 25. Staff found that since the prior case the costs of softening water increased in the Company A - Marion District but decreased in the Company C - Lake Darby and Worthington Hills Districts. Staff's calculations are performed to identify the cost of softening so as to apply the costs solely to those that receive the service. Staff finds the softening surcharges calculated below are warranted and recommends approval of the \$.3609 for the Marion district and \$.6007 for the Lake Darby and the Worthington Hills district.

Calculation of Softening Surcharge

Company A

Description		<u>Value</u>
Utility Plant		
Plant Associated with Softening (from prior studies)	\$	<u>81,515</u>
Total for Water A UPIS		89,448,771
Percent		.0911 %
Capital Related Costs that change when UPIS changes	s:	
Utility Operating Income	\$	4,039,234
Depreciation		2,779,382
Property Taxes		3,525,083
Federal Income Taxes		<u>1,463,404</u>
Total Capital Related Costs	\$	11,807,103
Multiplied by percent above		.0911
Total Softening Capital Related Costs	\$	10,756
Softening Operation O&M Expenses: Softening Chemicals	\$	710,525
Softening Labor		72,929
Softening Power		-0-
Maintenance on Softening Equipment Labor		<u>24,699</u>
Total Softening Expenses	\$	808,153

Payroll Taxes: Total Payroll Taxes		\$	313,840
Softening Labor divided by	\$ 97,628		2.52%
Total O & M Payroll	\$ 3,872,149		
Total Softening Payroll Taxes		\$	7,909
Summary: Capital Related Costs Softening O&M Expenses Payroll Taxes		\$	10,756 808,153 7,909
Total Softening Costs		\$	826,818
Water Sales in Marion District subject Staff Recommended Softening Sur	_	rge (CCI	F) 2,291,306

Calculation of Softening Surcharge

Company C - Water

<u>Description</u>	<u>Value</u>
Utility Plant	
Plant Associated with Softening (from prior studies)	\$ <u>151,800</u>
Total for Water C UPIS	14,872,612
Percent	1.0207%
	•
Capital Related Costs that change when UPIS changes:	
Utility Operating Income	\$ 612,076
Depreciation	353,274
Property Taxes	773,800
Federal Income Taxes	<u> 187,946</u>
Total Capital Related Costs	\$ 1,927,096
Multiplied by percent above	1.0207

Total Softening Capital Related Costs		\$	19,670
Softening Operation O&M Expenses:		•	440.000
Softening Chemicals		\$	113,890
Softening Labor			6,750
Softening Power			-0-
Maintenance on Softening Equipment Labor	-		
Total Softening Expenses		\$	120,640
Payroll Taxes:			
Total Payroll Taxes		\$	44,303
Softening Labor divided by	\$ 6,750		1.32%
Total O & M Payroll	\$ 511,814		
Total Softening Payroll Taxes		\$	585
Summary: Capital Related Costs		\$	19,670
Softening O&M Expenses	120,640		
Payroll Taxes	<u>585</u>		
Total Softening Costs		\$	140,895
Water Sales in Lake Darby and Worthin Surcharge (CCF)	ngton Hills Dis	stricts	subject to Softening 234,559

Large Quantity User Rates

Staff Recommended Softening Surcharge

The Company currently does not have any customers on the Large Quantity User tariff rate. However, Staff finds that the specific rate should continue to be part of the tariff in the event that any current or future customers want to go on this rate schedule. The Applicant is not proposing an increase in the current rate of \$1.61 per CCF. Staff calculated the rate using the Commission accepted calculation, which is to price at production costs per unit. Staff found that the Staff calculated rate differs from the current tariffed rate in that it is a lower rate than the tariffed rate. The current tariff has one Large Quantity User rate for all districts. Staff blended the data provided in

.6007

response to Data Request No. 31 to derive the Large Quantity User rate. Staff finds the Large Quantity User Rate to be a basis for which to judge the merits of large user contracts. The following chart illustrates the calculation of the production cost. Staff finds this to be a reasonable approach and recommends approval of the rate (\$.88).

Staff Calculation of Production Cost

<u>Account</u>		<u>Amount</u>
	Production Costs	
600.0	Supervision & Engineering	\$ -0-
601.1	Expenses	9,106
601.2	Labor	-0-
602	Purchased Water	1,031,237
603.1	Miscellaneous	431,062
620.0	Supervision & Engineering-Electric	-0-
622.2	Power Production	-0-
623.0	Pumping Production	275,719
624.0	Fuel and Power	377,840
626.0	Pumping - Other	34,338
640.0	Supervision & Engineering	63,014
641.0	Chemicals	1,299,235
642.0	WT Labor	869,429
643.0	Miscellaneous	267,172
644.0	Rent-Lab Equipment	16,653
652.0	Maintenance Softening Equipment Expenses	235,320
923.0	Contract Services	<u>273,234</u>
	Net Production Cost	\$ 5,183,359

Capital Costs	<u>Value</u>	
Operating Income	\$	11,564,641
Less Depreciation		3,294,767
Property Tax		4,320,184
Gross Receipts Tax		1,367,753

Payroli Tax	358,143
Federal Income Tax	(164,523)

Total Capital Costs	\$	2,388,317 x 28.44% =	\$	679,237
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Total Production Costs	\$	5,862,	596	1
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Unit Production Cost ((cc)	\$.88
		Ψ .	

All	ocation	Ratio

Source of Supply Plant	\$ 4,993,295
Pumping Plant	9,164,008
Water Treatment Plant	<u> 17,899,327</u>
Total Production Plant	\$ 32,056,630
Less: Softening Plant	1,715,407
Production Plant	\$ 30,341,223
Total Plant Investment	\$ 106,691,284
Ratio of Total Plant	28.44%

Purchased Water Rate (PWR)

The Applicant purchases water from Portage County (Portage County District/Brimfield area), Indiana American (Marion District/Preble County), and West Virginia American Water (Lawrence County District). The Applicant has a purchase water adjustment (PWA) surcharge which applies to Portage County District only. A purchase water adjustment permits a water company that purchases it water from another utility to recover these costs through a mechanism outside of the rate increase case process. A PWA is not used for the other two purchased water areas because of uniform tariff pricing in Water A. Water is purchased under the seller's tariffed rates in the Preble County and Lawrence County Districts.

However, the Applicant is proposing to increase the purchased water rate for Portage County by approximately 10.51%, from \$1.4573 per CCF to \$1.61048 per CCF.

In the E-3 schedule the rationale offered by Applicant is that they used a methodology to calculate the additional costs associated with providing water to customers served with purchased water versus the costs of providing water to customers treated by the Company, resulting in a proposed surcharge that is less than the current surcharge. This is an incorrect statement as the Company is proposing an increase as shown in the E-4.1 Wtr. C schedules. Information on the purchased water rate was found in Section C, page 126 of 228 in the work papers. The purchased water contract with Portage County was provided in response to Data Request No. 7.

In the Applicant's E4.1 work papers, page 6, Applicant delineates how the Applicant proposed \$1.61048 was derived. Staff stated in previous Case No. 06-433-WS-AIR that this methodology is unacceptable in that it does not comply with 4909.171, ORC. The charge of a purchased water rate can be based solely on the cost to the Company of the water purchased from Portage County. 4909.171(B), ORC, states "...which revisions shall reflect solely the change in the cost to the company of the water or the sewage treatment, as specified in division (A) of this section and no other cost, charge, or item, and shall not change the distribution of the revenue responsibility of the various classes of the company's customers." There is also a 45 day waiting period after customer notification before rates can become effective.

To institute an ORC compliant purchased water rate, uniform tariff pricing for all of Ohio American Water (Water A and Water C blended) would have to be abandoned. A conformant purchased water rate would need to be for only the cost of the purchased water from Portage County according to current ordinances or agreements. Noticing requirements would necessitate a special notice and waiting period different than notice periods required for this rate proceeding.

In previous Case No. 06-433-WS-AIR, the Applicant stipulated to the following language "Concerning the purchased water surcharge for Portage County, since there may be an increase in the Portage County rates when the present contract expires at the end of 2006, Ohio American and the Staff will work together at that time to correct/agree upon a methodology when a Portage County increase has been announced." In this proceeding, the Applicant is not complying with the stipulation signed in Case No. 06-433-WS-AIR.

Staff recommends that the Applicant either abandon a separate purchased water charge for the Portage County area and continue to pursue uniform tariff pricing for the entire Company or establish a purchased water rate according to 4909.171 of the ORC. Whichever path is chosen, Staff recommends that the final action be taken by implementing rates which reflect that decision in this proceeding.

Reverse Osmosis Surcharge

The reverse osmosis surcharge applies to Blendon Township customers only as this is an additional water processing procedure applicable only to this group of customers. The Applicant is proposing to decrease this charge from \$1.3250 per CCF to \$1.19220 per CCF, an 11.1% decrease. While there was no mention of the reverse osmosis surcharge in the E-3 schedule, the Applicant provided their reverse osmosis costs in the

Schedule E work papers, page 52. Staff has reviewed these costs and finds \$1.19220 per CCF to be reasonable.

Special Service Contracts

Aqua Ohio Water -Lake Shore Division Contract

The Applicant's Ashtabula District provides water service via contract to Aqua Ohio Water Company – Lake Shore Division (formerly known as Consumer's). In exploring rates for this customer in Case No. 99-1038-WW-AIR, the Applicant conducted an Ashtabula District specific cost of service study using the same Base-Extra Capacity method that was used in separating out costs between customer classes for the total Company.

In setting the rates for Aqua in the initial contract, Case No. 94-1535-WW-AEC, the parties to the contract agreed that the rate charged would be set by the outcome of the Ashtabula District cost study performed at that time. The Commission approved the contract. The contract also stated that any future rate increases to this contract customer would be tied to future Company wide rate case applications filed by the Applicant. In the Finding and Order for that contract, the Commission ordered that the cost associated in servicing this customer be considered when pricing this customer's future rates.

The Opinion and Order issued in Case No. 99-1038-WW-AIR indicates that the stipulated agreement provides that "Any future rate increase to Consumer's Ohio shall be based upon total company cost of service study." Therefore, the data presented in the cost-of service study in this proceeding was formulated using the criterion established in Exhibit A of the Amendment to Water Purchase Agreement, July 1995 with the exception that total company costs are used rather than Ashtabula District costs.

Staff finds this contract rate should become effective the same date the tariffed rates become effective in this case.

Whirlpool Contract

In Case No. 96-940-WW-AEC, the Applicant entered into a contract with Whirlpool Corporation for a period of 3 years. The Commission approved the contract on November 25, 1996. The contract expired and the Applicant petitioned the Commission for approval of an amendment to extend this contract on December 8, 1999. The Commission approved the three-year extension and renewal of the agreement on June 1, 2000. On September 20, 2005 Applicant filed for a second amendment to this contract. The second amendment was for three years, contained no material changes, the rates remained the same, and was approved by the Commission on April 19, 2006.

This contract was not broken out in the cost of service study. The E-4 schedule shows - 0-% increase to the contracts.

Fire Protection Service

Public Fire Protection Service

The Applicant provides public fire protection service, however, it does not charge separately for the service. It includes the costs of this service in the volumetric rates. This has been a long-standing practice of the Applicant which Staff finds reasonable and recommends approval.

Private Fire Protection Service

In the E-3 section of the filing, the Applicant stated that the increase to Private Fire Protection Service is based on an across the board increase. It is proposing a 12.57% increase to this customer class. Staff finds movement towards the cost of service study to be reasonable and refers you to the above discussion on Revenue Distribution.

Mansfield District- Flat Rate Customers

In Case No. 93-893-WW-UNC, the Applicant purchased four small, unmetered companies that make up part of the Mansfield District. These four companies were formerly known as Imperial Water Company, Inc., Walcrest and Halabrien Sloboda, Harp Water Association, and Little Valley. In Case No. 95-935-WW-AIR, all four systems came under one flat rate for all flat rate customers regardless of the service area. Staff recommended in the Case No. 06-433-WS-AIR that the flat rate be gradually increased over time to meet the average metered customer bill. Applicant is proposing to increase the flat rate based on an across the board increase. Historically flat rate customers' rates have increased to the average metered residential bill. Staff finds the historical method of increasing to the average metered bill to be more reasonable and recommends approval.

Declining Rate Block Structure

The Applicant has a declining rate block structure for both Water A and C customers, but the blocks are different between the two customer bases.

The basis behind a declining rate block structure is to capture the majority of each specific customer class' usage and costs per unit imposed on the system per that customer class in a particular block of the structure, while maintaining one rate design for all the different classes. The first block of the rate design is formed to capture the majority of the residential class, which imposes the highest demand on the system due to its peak usage patterns, thus placing the highest cost per unit on the system. The

second block is formed to capture the majority of the commercial and other public authority classes, which impose a slightly lower demand and cost per unit on the system than does the residential class but more cost per unit than the industrial class. The last block is formed to capture the majority of the industrial class, which has a more consistent load throughout the day and places the lowest demand and thus the lowest cost per unit on the system.

Staff finds declining rate block structures to be reasonable when dealing with multiple customer classes with different load factors, which is the case of the Applicant's systems, because it allows for ease of administering for the Company (one rate schedule), while capturing the imposed cost of the customer classes. Staff, therefore, recommends approval of the Applicant's declining rate block structure to set rates among the different classes.

Rate Blocks

The Applicant's Water A rate block design (the amount of usage per block) was established in 1980 using a comprehensive study of class consumption patterns. Another study was performed by the Applicant in Case No. 92-2299-WW-AIR, which found that the rate block design still was appropriate. Staff finds due to the relative stability of the Applicant's customer makeup and customer demand that the current rate block design still is appropriate.

The Applicant is proposing to change the rate blocks for Water C so that they match the rate blocks for sewer. Staff is not aware of any recent rate block design studies being performed for Water C, and the rationale in the E-3 schedules was movement towards uniform tariff pricing. Staff finds the proposed rate design to reasonable. Staff further recommends that a comprehensive consumption study be submitted with the next rate case filing.

Applicant has been moving towards uniform tariff pricing between Water A and Water C, which Staff has agreed with and encouraged. In the above discussion of a purchased water adjustment clause for Water C, Staff recommends that this movement towards uniform tariff pricing continue only if the purchased water adjustment clause is deleted.

Volumetric Rates

The volumetric rates should be calculated by reducing the total revenue requirement by the revenue generated from sources independent of the volumetric rates; Softening Surcharge revenue, Private Fire Service revenue, Miscellaneous and Reconnection revenue, Special Service Contracts revenue, etc. The remaining revenue to be recovered should then be allocated to the customer classes. The class revenue totals should be reduced by the revenues from Staff recommended fixed customer charges and fixed flat rate customers to determine the class revenue to be recovered through the volumetric rates. The resulting simultaneous equations should then be solved to help narrow the appropriate rates. The rates should then be adjusted by iteration to

recover the class revenues as closely as possible when applied to the test year billing determinants.

Sewer Rates

For customers who only receive sewer service the sewer rate design consists of a customer charge and a flat rate volumetric charge. For those customers that are also water customers there is a declining block, volumetric usage charge only. The Applicant is proposing to increase the sewer customer charge to equal the Applicant proposed water customer charge. Staff agrees that the water and sewer customer charges should be identical, however Staff recommends Staff's proposed customer charge rate be approved.

In prior Case No. 06-433-WS-AIR, the Applicant instituted a Summer/Winter usage formula in response to customer concerns about being charged sewer service for water that is not returned to the sanitary sewer system (i.e. car washing, lawn watering, pools, etc.). The formula is designed so that the use of a winter averaging methodology will recover summer sewer costs based on a customer's winter average rather than actual summer water demand.

The formula has been in effect for over a year now and Staff is not aware of any problems or customer complaints regarding the procedure. Staff finds the Summer/Winter formula to be reasonable and recommends approval.

All Water A Districts: General Water Service Rates

Customer Charges: (\$/bill)

	Monthly:				
		Current	Proposed	Dollar Increase	Percent Increase
	te Description	<u>Rate</u>	<u>Applican</u> t	<u>Applicant</u>	<u>Applicant</u>
	3" Meter	\$ 9.41	\$10.59	\$ 1.18	12.54%
3/4	. 43	12.00	13.51	1.51	12.58
1"		17.18	19.34	2.16	12.57
	1/2"	30.12	33.90	3.78	12.55
2"		45.64	51.38	5.74	12.58
3"		81.88	92.17	10.29	12.57
4"		133.64	150.43	16.79	12.56
6"		263.05	296.11	33.06	12.57
	Di Monthia				
C /0	<u>Bi-Monthly:</u>	040.00	#04.40	# 0.00	40 540/
	3" Meter 	\$18.82	\$21.18	\$ 2.36	12.54%
$\frac{3}{4}$	"	24.00	27.02	3.02	12.58
1"		34.36	38.68	4.32	12.57
	1/2"	60.24	67.80	7.56	12.55
2"		91.28	102.76	11.48	12.58
		C		h = == = ((((() () ())	
		<u> </u>	nsumption C	harges: (\$/CCF)	
Fire	st 20-CCF/Mo.	\$4,4793	\$5.0422	\$.5629	12.57%
	xt 1,980	3.2779	3.6898	.4119	12.57
	er 2,000	1.4081	1.5850	.1769	12.56
•	·,		11000	, , , , ,	, =
So	ftening Surcharge	\$0.3326	\$0.3609	\$.0283	8.51%
			<u>Unmeter</u>	ed Rates	
Bi-	-Monthly	\$70.77	\$79.66	\$8.89	12.56%
	-				

Water C Districts: General Water Service Rates

Custom <u>er</u>	Charges:	(\$/bill)

		<u>Oustorner O</u>	<u>παι 903. (ψισπη</u>	
<u>Monthly:</u>				
	Current	Proposed	Dollar Increase	Percent Increase
Rate Description	<u>Rate</u>	<u>Applican</u> t	<u>Applicant</u>	<u>Applicant</u>
5/8" Meter	\$ 9.41	\$10.59	\$ 1.18	12.54%
3/4 "	12.00	13.51	1.51	12.58
1"	17.18	19.34	2.16	12.57
1-1/2"	30.12	33.90	3.78	12.55
2"	45.64	51.38	5.74	12.58
	81.88	92.17	10.29	12.57
4 "	133.64	150.43	16.79	12.56
6"	263.05	296,11	33.06	12.57
	<u>C</u>	Consumption C	harges: (\$/CCF)	
First 13.33 CCF/Mo.	\$3.2074	\$4.7470	\$1.5396	48.00%
Next 586.67 CCF	1.9686	2.9136	.9450	48.00
Over 600 CCF	1.9686	1.5850	(.3836)	(19.49)
0 ,0, 000 00.			(.0000)	(,
Surcharges:	(\$/CCF)			
Softening	\$0.6122	\$0.6007	\$(.0115)	(1.88)%
Reverse Osmosis	\$1.3250	\$1.1922	\$(.1388)	(10.02)
Purchased Water	\$1.4573	\$1.61048	\$.15318	10.51
1 UICHASEU WALEI	Ψ1.40/0	Ψ1.010-0	ψ. 100 10	10,01

Wastewater Service Rates

wastewater dervice itates									
		Customer C	Charges: (\$/bill)						
<u>Monthly:</u>									
	Current	Proposed	Dollar Increase	Percent Increase					
Rate Description	Rate	<u>Applican</u> t	<u>Applicant</u>	<u>Applicant</u>					
5/8" Meter	\$ 9.41	\$10.59	\$ 1.18	12.54%					
3/4 "	12.00	13.51	1.51	12.58					
1"	17.18	19.34	2.16	12.57					
1-1/2"	30.12	33.90	3.78	12.55					
2"	45.64		5.74	12.58					
3"	81.88	92.17	10.29	12.57					
4"	133.64 150.43		16.79	12.56					
6"	263.05	296.11	33.06	12.57					
	<u>C</u>	Consumption (Charges: (\$/CCF)						
First 13.33 CCF/Mo.	ድ ፍ በ472	\$8.2319	\$2.2146	36.80%					
•	\$6.0173	•	• • • • • • • • • • • • • • • • • • • •	36.80					
Next 586.67 CCF	4.2500	5.8142	1.5642						
Over 13.33 CCF	1.6589	2.2694	.6105	36.80					
		<u> Unn</u>	netered Rates						
Domestic Customers	\$35.98	\$49.39	\$13.41	37.27%					

SERVICE MONITORING AND ENFORCEMENT

WATER SERVICE QUALITY

Staff investigated the Company Water Company's physical facilities and administrative operations to assess compliance with 4901:1-15 O.A.C., the Standards for Waterworks Companies and Sewage Disposal System Companies, and the previous Stipulation and Recommendation entered into by the Company in Case No. 06-433-WS-AIR including the commitments made in that case. The investigation also entailed a review of plant operating records, water quality tests, maintenance and operational concerns and various inputs provided by customers including a customer survey sent in August 2007.

STIPULATION COMMITMENT REVIEW

The Stipulation and Recommendation agreement the Company entered into with the Staff and OCC included numerous operational commitments. The following is a summary of these commitments and their current status. In Case No. 06-433-WS-AIR as part of the Stipulation and Recommendation, the Company agreed to set aside \$50,000 as an assurance that it would meet five commitment categories consisting of (1) unaccounted-for-water identification, reporting, and reduction, (2) meter-reading, change-out program, (3) valve maintenance operation, (4) tank inspections, storage studies and replacements, (5) hydrant flushing and painting. The status of each of these commitments is discussed below, as well as all other commitments made in the last Stipulation and Recommendation. The commitments are numbered as referred to in the last Stipulation and Recommendation.

[9D] Summer/Winter Educational Campaign:

Commitment

The Company in consultation with OCC and the Staff developed and conducted a wastewater customer educational campaign concerning summer/winter rates approved in the last rate case.

Finding

The Company requested and received approval for an adjusted compliance schedule. Brochures were developed by a joint effort of the Company, Staff and OCC and mailed to the customers on or about April 16, 2007.

Recommendation

Staff recommends that the Commission order the Company to update the brochure annually as needed, and make available or send copies to all new customers and any existing customers that may inquire with questions or concerns about the Summer/Winter rates.

[11B] <u>Unaccounted-for-Water (UFW) Identification, Reporting, and Reduction</u>

Commitment:

Section 4901:1-15-20 (C) (5) O.A.C. requires every waterworks company to determine the amount of unaccounted-for-water (UFW) in each of its metered systems, and report this amount to the Staff. Companies must also issue reports containing planned remedial actions to be taken if a system's UFW ratio is equal to or in excess of fifteen-percent of the gross system production. The remedial action report is required to include an assessment of the cost benefit of a leak survey.

The Company committed to file remedial action plans within 60 days of the Opinion and Order for the Huber Ridge, Blacklick, Madison and Marion systems [11B(i)]. The Company also committed to reduce the UFW to at least 15% on the following schedule [11B(ii)] —

Huber Ridge Blacklick Madison Marion

by June 30, 2008 by June 30, 2008 by December 31, 2007

by December 31, 2007

The Company further committed to maintain no more than 15% UFW on a rolling 12-month basis for each (metered) system; including Marion, Tiffin, Ashtabula, Lawrence County, Lake White, Madison, Blacklick, Valley, Huber Ridge, Timberbrook, Lake Darby, Aurora East and Beechcrest. The results reported by quarter for each of these systems for the year 2007 are shown in the table below.

¹ The quarterly report data submitted by the Company includes monthly production quantities and the Company's calculated UFW ratio. Staff calculated the quarterly, yearly, and total company averages from this data as submitted.

Unaccounted-for-Water (UFW%)

	1st	2nd	3rd	4th	Annual
	Quarter	Quarter	Quarter	Quarter	2007
"A" Companies					
Ashtabula	14.4%	18.9%	19.3%	19.6%	18.1%
Lake White	8.4%	6.9%	6.9%	8.9%	7.7%
Lawrence County	11.9%	11.9%	10.4%	10.3%	11.1%
Madison	20.9%	13.3%	11.9%	17.3%	15.8%
Marion	24.6%	24.7%	23.5%	22.4%	23.8%
Tiffin	11.1%	9.0%	7.1%	7.1%	8.6%
Average	18.7%	20.0%	19.3%	19.0%	19.3%

	1st	2nd	3rd	4th	Annual
Franklin County	Quarter	Quarter	Quarter	Quarter	2007
Blacklick	23.9%	23.7%	25.2%	26.9%	24.9%
Huber Ridge	23.4%	23.3%	22.7%	21.5%	22.7%
Lake Darby	11.0%	11.7%	10.8%	8.4%	10.5%
Timberbrook	7.4%	9.7%	11.7%	10.9%	10.0%
Worthington (Valley)	5.0%	6.5%	7.2%	8.4%	6.8%
Average	18.6%	18.1%	18.8%	19.4%	18.7%

	1st	2nd	3rd	4th	Annual	
Portage County	Quarter	Quarter	Quarter	Quarter	2007	
Aurora East	30.3%	33.4%	22.5%	17.3%	26.8%	
Beechcrest	7.0%	4.5%	8.4%	2.0%	5.6%	
Average	16.6%	16.9%	13.3%	7.2%	13.8%	

Total Company	18.6%	19.8%	19.2%	18.9%	19.1%
Averages					

Finding:

The Company filed quarterly operation reports with the Staff that included system production flows and UFW ratios for each month and for all of its metered systems. Production flow quantities were also filed for all unmetered systems as required by the Administrative Code.

The Company did not successfully complete the commitment of lowering UFW in the Marion District to less than 15% by December 31, 2007. The Applicant was successful in the Madison System (Mansfield Area) for the second and third quarters of 2007, but the UFW was above 15% again in the fourth quarter. In addition, the Ashtabula District's UFW exceeded 15% for the last three quarters of the year. The Company has until June 30, 2008 to reduce its UFW ratio in its

Franklin County District's Blacklick and Huber Ridge systems to less than 15%, but has shown little progress towards doing this in 2007.

The remedial action plan submitted for the Portage County District in January 2008 states that leaks located and repaired caused its UFW figures (Aurora East System) to drop significantly from 42% in July 2007, to 20% in August, and finally to -5% in September, but rising again to 22.2% in December 2007. The reported September results draw into question whether the Company is calculating UFW on a rolling 12 month average in Portage County. Calculating UFW by use of a rolling average was required in the last Stipulation and Recommendation agreement. Its use may be more important with smaller systems such as those in Portage County to help mitigate the lag time between consumer meter readings and production meter readings.

In a letter dated November 26, 2007, the Company recognized that it would most likely not lower the unaccounted-for-water ratio in the Marion District, as committed to in the last Stipulation and Recommendation. As a result the Company made a \$10,000 contribution to the previously agreed upon community agencies for distribution in the appropriate service areas. The Company has been submitting quarterly reports outlining proposed remedial actions for each system that has reported UFW ratios equal to or in excess of 15% as required by the past stipulation and the Ohio Administrative Code.

Recommendation

Staff recommends the Commission to order the Company to:

- 1. Submit with its quarterly operations report details supporting its UFW reported values including the monthly production quantity, the metered quantity, the amount of all unmetered flows permitted under the Administrative Code, the actual monthly UFW as calculated, and the rolling 12 month average UFW as calculated. The Company shall submit this information to Staff by the 15th of the month following the quarter.
- Meet with Staff within 60 days of the Opinion and Order in this case and submit for review and acceptance by Staff, a plan outlining known and potential causes of UFW in each of the following systems; Ashtabula, Marion, Huber Ridge, Blacklick and Aurora East and include remedial actions and timelines for remedying the causes of UFW.
 - a. The plan shall outline costs and resources necessary to find and remedy the causes of UFW in each of the above systems and timelines necessary to bring the systems to a level of compliance with the plan within 12 months of Staff approval of the plan.
 - b. Company failure to comply with the terms of the plan within 12 months of the Opinion and Order in this case will result in the Staff recommending the Commission order the Company in its next rate case to adjust test period chemical and power expenses for any system out of compliance with the terms of the plan.

[11C] Meter-Reading Change-Out Program

Commitment

Install encoder meters in all metered districts as a means of coming into compliance with Section 4901:1-15-19 (A) (2) O.A.C. requiring an annual actual meter reading. Encoder meters have an external apparatus that provides a true reading of the actual meter located inside the premises.

Finding

The annual meter report the Company submitted to staff on January 28, 2008 indicated that all inside customer meters were read at least once as required in all districts during 2007. The encoder meter change out program has been completed with the exception of a few meters in each system that the Company claims access could not be made or that the installation of an encoder meter was physically impractical.

Recommendation

The Company is encouraged to convert the small number of non-encoder inside meters remaining to encoders to help insure continued compliance with the Administrative Code. Staff recommends that the Commission order the Company to continue sending an annual meter report for all of its metered systems by January 15 of the following year. Should the annual meter report indicate any meters in any of the Company's metered systems have not received at least one actual reading in the prior year, the Company will include a detailed summary including the reasons this did not occur.

[11D] Valve Maintenance, Operations

Commitment

On October 17, 1996, the Commission granted the Company a four-year waiver from Section 4901:1-15-10 (B) (5) Administrative Code and permitted the Company to operate non-critical small local distribution valves every four years, rather than every two years. On April 12, 2001, the Commission granted the Company's request to continue the waiver which is applicable solely to the Company's larger systems, (Ashtabula, Lawrence County, Marion, and Tiffin), and is valid only as long as 5% or less of the valves require repair or replacement.

Finding

Staff confirmed in field visits (at which time the Company produced records of its valve operations), that the Company fully complied with this commitment in 2007.

Recommendations

Staff has no recommendations at this time.

[11E] Tank Inspections, Storage Studies and Replacements

Commitment

In addition to inspecting storage tanks in 2006 at least once every five years as required by 4901:1-15-10 (B) (6) O.A.C., the Company committed to reporting on specific storage concerns with the Bunker Hill Storage tank in Ashtabula, the Lake White elevated storage tank in Pike County, and the general capacity of the Marion distribution system.

[i] <u>Marion Storage Study</u>: The Company committed to completing a distribution and storage study of the Marion water system within six months of the Opinion and Order in Case No. 06-433-WS-AIR.

Finding

A study was presented to Staff and docketed in Case No. 07-252-WS-UNC on November 4, 2007. The plan took an overview of distribution storage and transmission needs to support current and projected system demands in Marion. The major recommendations from the study are listed below:

2007 Marion District Storage Study Recommendations

Proje	ct No.	Description	Estimated Cost
1		Construct 0.5 Million Gallon Elevated Storage	\$2,200,000
		Tank and rehabilitate Victory Road Reservoir	
2	а	Install 9,300 feet of 12-inch main in Campbell	\$750,000
		Road	
	b	Optional Pumping Station	\$500,000
3		Install 8,200 feet of 12-inch main in Mount Vernon	\$900,000
		Avenue	
4		Install 2,700 feet of main in Church Street, Forest	\$300,000
		Lawn Avenue, and Center Street	
5		Replace High Service Pump No. 6 at the Holland	\$350,000
		Road Filter Plant	
6		Install 3,200 feet of 12-inch main in Copeland	\$350,000
_		Avenue and Fairview Street	
7		Install 6,000 feet of 12-inch main in Brookpark	\$660,000
		Road, Meadow Lane, Summerset Drive,	
		Jamesway, and Mount Vernon Ave.	
		Total Potential Cost of All Projects	\$6,010,000

The recommendations presented appear to provide a good overall approach for the Marion District to use as their system grows and Staff encourages the Company to give primary consideration to the parts that would address the system storage concerns.

Recommendation

Staff has no recommendations at this time.

[ii] Bunker Hill (Ashtabula) Storage Tank: The Company agreed in the last Stipulation and Recommendation to present a plan to Staff within 180 days of the Opinion and Order² on how they could maintain their distribution system while taking the Bunker Hill Storage Tank out of service (for extended periods of time) for inspection and maintenance as needed.

Finding

The plan, which included four options, was presented to Staff on a timely basis, but the Company has not given any indication as to which of the proposed options (if any) they intend to implement and when. Normal operations of the Ashtabula distribution system are dependent on this tank being in service; therefore, it is critical that the Company implement at least one of their alternatives now in light of the possibility of an unscheduled need to take the tank offline. The tank has not been fully inspected within the required five year cycle except by means of a submersible camera.

Recommendation

Staff recommends that the Commission direct the Company to select a method from the plan submitted to Staff or another method that can otherwise be shown to be adequate, within 30 days of the Opinion and Order in this case. Staff further recommends the Commission direct the Company to implement and make operational at least one of the plans alternatives or another method that can otherwise be shown to be adequate within six months from the Opinion and Order in this case³. If in addition to one of the four identified options, the Company chooses to build a second tank, the Staff recommends the Commission direct the Company to ensure the tank is constructed and in operation within 2 years of the Opinion and Order in this case.

[iii] New Lake White Storage Tank: The Company committed to complete construction of a new tank in its Pike County Lake White District by June 30, 2008.

Finding

Construction began in early January 2008 with a required completion date of June 30, 2008. Pending weather and other unforeseen contingencies the tank is anticipated to be completed by the stipulated deadline.

² Rate Case No. 07-433-WS-AIR

³ Current Rate Case No. 07-1112-WS-AIR

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Recommendation

Staff has no recommendations at this time.

[11F] Hydrant Flushing and Painting

Commitment

The Company agreed to repaint each fire hydrant in the Ashtabula and Marion Districts at least once every five years or approximately 20% of these hydrants each year. The Company also agreed to continue flushing the hydrants in accordance with Administrative Code 4901:1-15-10(B) (4) O.A.C.

Finding

Field investigations confirm that the Company has satisfied both commitments in 2007.

Recommendation

Staff has no recommendations at this time.

[12] Huber Ridge Discoloration Issue

The Huber Ridge water discoloration was one of the key areas in Case No. 06-433-WS-AIR stipulation discussions. The following eight subsections of this report deal with the specific commitments the Company agreed to in order to correct the discoloration problem in Huber Ridge.

[12A] Prechlorination Report

Commitment

By January 31, 2007, the Company committed to submit a report to Staff, OCC and representatives of the Ohio Environmental Protection Agency (OEPA) with results of prechlorination efforts undertaken in the Huber Ridge system in late 2006.

Finding

The Company evaluated the use of applying chlorine prior to filtration to enhance the removal of iron and manganese by the filters. The effort was found to be ineffectual at the doses that could be fed without adversely affecting the sensitive reverse osmosis membranes. The report of these

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findings was submitted by the Company timely and stated that prechlorination should not be added to the regular plant treatment processes on a routine basis. The Company has since evaluated the use of sodium permanganate as a pre-filtration oxidizing agent. The use of this chemical has been approved by the OEPA and has been installed in the new chemical feed building the Company completed near the end of 2007. Trial runs with the permanganate feed proved to lower the manganese level of the water after filtration to under OEPA's secondary maximum contaminate level.

Recommendation

Staff has no recommendation at this time.

[12B-C] Distribution and Plant Monitoring Plan

Commitment

By January 31, 2007 the Company was to submit a plan that presents objective measurable criteria for determining water quality in the Huber Ridge water distribution system.

Finding

The Company agreed to work with the Staff and OCC to develop a plan to monitor compliance with its commitment to address the discoloration issue in Huber Ridge. The Stipulation and Recommendation was executed in January 2007, but did not go into effect until the Opinion and Order was signed on March 7, 2007 and some of the initial dates committed to were not adjusted. However, the Company met this part of the agreement and developed a monitoring plan for the water distribution system and the water treatment plan and had this plan reviewed and approved by the OEPA.

Recommendation

Staff has no recommendation at this time.

[12D] Distribution Model and Unidirectional Flushing Program

Commitment

By March 31, 2007, the Company was to complete a distribution model to develop a unidirectional flushing program.

Finding

This commitment was for the completion of a unidirectional flushing program by March 31, 2007 including a survey of the location of all distribution system valves, hydrants and mains. In addition, all hydrants were to be flushed twice during 2007 concurrent with valve operation necessary for a unidirectional approach. The Company completed a distribution model of the Huber Ridge system by March 31, 2007. The Company completed its first of two required system flushing during the weeks of March 19th and 26th of 2007 and used the observations from these flushing's as data to input into the computer model. Subsequently, the Company flushed the entire system two more times using the uni-directional flushing method to thoroughly clean the system.

Recommendation

The uni-directional flushing commitment was completed for 2007. Staff recommends that the Company continue to flush to prevent additional accumulated sediment in its distribution piping from causing future incidents of discolored water in the system.

[12E] Evaluation of Internal Status of Distribution Pipes from Sample Sections

Commitment

By April 30, 2007, the Company was to complete and report to Staff, OCC and OEPA the results of its evaluation of the internal status of the Huber Ridge pipes through the removal and examination of five to six pipe sections. The Company was required to notify Staff, OCC and OEPA of the time and location the sections were to be removed to permit representatives of these agencies to be present and observe.

Finding

The Company submitted a pipe evaluation report on April 30, 2007 stating that all samples were collected and were found to be in good to excellent condition. The interior walls (including the mortar lining) were in good condition; had little scale build up; and had the coloration of the mortar lining. Most of the pipe sections were taken after the first (spring) system flushing program had been completed. Each of these pipe sections had areas on the internal wall surface where the thin scale had apparently been removed during flushing.

Recommendation

Staff recommends the Company save any pipe samples removed from the distribution system in the course of their normal excavations. The Company shall make these samples available to the Staff for examination and may be discarded after examination or 12 months, subsequent to removal whichever comes first.

[12F] Evaluation of Addition Chemical Treatment Options

Commitment

By May 31, 2007 if more 5% of the Huber Ridge Water Plant OEPA reportable samples analyzed in the previous quarter under the plan (12B-C) do not meet iron and manganese secondary standards, the Company will present the Staff and OCC with a report evaluating the use of including a chemical additive to the finished water.

Finding

The Company committed to submit a report by May 31, 2007 evaluating the use of a chemical additive to the finished water for controlling water quality in the Huber Ridge water distribution system if more than 5% of the Huber Ridge water treatment plant reportable OEPA samples analyzed in the previous quarter under the plan did not meet iron and manganese secondary standards.

The Company reported and docketed the following test results from samples taken from its Huber Ridge water treatment plant finished water tap.

% < SMCL*	
Iron	Manganese
0.3 (mg/L) **	0.05 (mg/L) **
100.0%	25.0%
100.0%	50.0%
100.0%	100.0%
	Iron 0.3 (mg/L) ** 100.0% 100.0%

^{*} SMCL-Secondary Maximum Contaminant Level

The Company found that their filters were not adequately removing manganese from the raw water. Previous efforts, outlined in the prechlorination report to increase the removal by pre-oxidizing the water with chlorine proved unsatisfactory and posed potential threat of damaging the reverse osmosis membranes used for eliminating dissolved solids including minerals associated with water hardness. The Company applied for and received permission from the OEPA to temporarily add sodium permanganate as an oxidizing agent before the filters which proved effective in reducing the manganese levels to under the SMCL of 0.05 mg/L. The Company constructed a new chemical storage and feed building attached to the existing water plant in late 2007 and included the permanganate in its application. Records submitted to OEPA and reviewed by Staff show that both iron and manganese have been under their SMCL's for more than 95% of the required samples since May of 2007 and through the end of the year.

Removing iron and manganese from the water delivered to the distribution system has been recognized as being only part of the problems potentially causing the discoloration issue in Huber Ridge. The water's chemical make-up can cause the elements previously depositing in the

^{**} Mg/L- milligrams per liter

distribution system to leach back into the water within the system's distribution piping. The unidirectional flushing program is intended to address this. Also, the Company began feeding an orthophosphate/polyphosphate blend to the finished water to help keep any residual iron and manganese in solution and to create a protective coating in the distribution piping and service lines. Construction of Huber Ridge new chemical feed room was completed by December, 2007. Staff finds that this commitment has been satisfactorily completed.

Recommendation

Staff has no recommendations at this time.

[12G] Discontinuance of Reverse Osmosis Charge

Commitment

By June 30, 2007, if discoloration continued in the Huber Ridge distribution system, the Company was to cease charging the reverse osmosis surcharge each month until the discoloration has been eliminated.

Finding

The Company agreed to discontinue charging the Huber Ridge customers a reverse osmosis surcharge after June 30, 2007 if the system discoloration issue had not been eliminated. After June 30, 2007 the charge could be reinstated for each month that the monitoring criteria outlined in the Stipulation and Recommendation agreement had been satisfactorily completed. This issue would be considered satisfied once the company had eliminated discoloration for six consecutive months.

Sample results reported by the Company for June 2007 report indicated that the iron and manganese levels at the water treatment plant finished water sampling tap were under the Secondary Maximum Contaminate Level (SMCL) for iron and manganese 100% of the time (the Stipulation required them to be under the SMCL 95% or more of the time.) Therefore, the Company was not required to cease the reverse osmosis charge after June 30th. Subsequent reports have shown that the Company continued to satisfy this commitment for at least six consecutive months.

Recommendation

Staff recommends that the disallowance of the reverse osmosis charge as outlined in the Stipulation and Recommendation agreement from Case No. 06-433-WS-AIR be continued should plant records show that for two consecutive months the secondary maximum contaminate levels for iron (0.3 mg/L) or for manganese (0.05 mg/L) are exceeded more the 95% of the time.

[12H] September 30, 2007 Evaluation of Additional Treatment Options

Commitment

By September 30, 2007, if more than 5% of the samples for the Huber Ridge Water Treatment Plant did not meet secondary standards the Company would meet with Staff, OCC and OEPA to discuss additional steps and timeline.

Finding

This commitment required the Company to meet with Staff, OCC, and OEPA before September 20, 2007 if more that 5% of plant finished water samples analyzed in the previous quarter under the Plan did not meet the secondary standards.

The meeting was not held since less than 5% of the samples exceeded their SMCL's. However, the Company did include in a construction permit application filed with OEPA to add an orthophosphate/polyphosphate blend to the chemicals being used at the treatment plant as previously discussed.

Recommendation

Staff has no recommendations at this time.

[12]] Customer Letter

Commitment

The Company was to notify by letter the Huber Ridge customers whenever the discoloration issue due to water chemistry has been eliminated, and include suggested steps that customers can take to minimize any future occurrences that may be caused by customers' service lines or other facilities or equipment owned by the customers.

Finding

A letter was sent to customers on October 24, 2007 and a copy docketed with the Commission the following day. Staff acknowledges that the analysis of sampling taken at the plant from June 2007 through the end of 2007 indicates that water delivered to the Huber Ridge distribution system was under the OEPA's Secondary Maximum Contaminate Levels (SMCL) for iron and manganese and that the Company appears to have progressed in controlling how water chemistry has added to the overall Huber Ridge discoloration problem. The issuance of the letter has been appropriate in addressing "water chemistry" contributing factors, but the discoloration problem also includes

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includes other contributing factors within the distribution system for which continued Company efforts will be required.

Recommendation

Staff has no recommendations at this time.

[13] Lake Darby Softening

Commitment

The Company committed to install new flow monitors to monitor the softening process and to activate timely the softener regeneration. They also agreed to install new instrumentation and alarms, a 24 hour, 7 day a week remote reporting system, and to implement process control testing and monitoring to consistently and reliably produce finished water softness with a daily average hardness of between 120 mg/l to 150 mg/l for at least 95% of monthly samples. The Company also agreed to continue providing Staff with a monthly report showing a daily average of all process control and certified plant tap testing of the softened water.

Finding

The following table shows a summary of the test results reported:

Summary of Lake Darby System in the Franklin County District Monthly Hardness Statistics for Year 2007 (Central Laboratory)

	Jan-07	Feb-07	Mar-07	Apr-07	May-07	70-unr	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	2007 Annual
Max	142	145	246	144	142	142	145	141	143	231	144	142	246
Min	87	124	124	120	101	121	126	127	125	120	124	123	87
Average Daily	122	132	135	131	129	133	134	132	132	135	135	133	132
Number of Times Within Commitment Range	23	28	30	30	29	30	31	3,1	30	30	30	31	353
Number of Times Above 150 mg/L Upper Commitment Range	0	0	1	О	0	0	0	0	Ö	1	0	0	2
Number of Tirnes Below 120 mg/L Lower Commitment Range	8	0	0	а	2	0	0	0	0	0	0	0	10
% Within Range	74.2	100.0	96.8	100.0	93.5	100.0	100.0	100.0	100.0	96.8	100.0	100,0	96.7
% Above 150 mg/l	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.5
% Below lower limit	25.8	0.0	0.0	0.0	6.5	0.0%	0.0	0.0	0.0	0.0	0.0	0.0	2.7

The Company reported two sets of results for Lake Darby, the first being for samples tested at their district central laboratory in Huber Ridge and the second being for samples split from the first, but tested immediately at the Lake Darby water treatment plant.

May 2007 was the only month where on two occasions less than 95% of the daily average hardness test results reported outside the range. Results of 100 mg/L were reported for May 7th and results of 116 mg/L were reported for May 20th. With two occurrences below the lower commitment limit, the Company was outside the commitment range 6.5% of the time. However, the plant test for May 20th was within the approved range with a daily average hardness of 127 mg/L being reported. This and the minimal amount outside of the approved range show that the Company met their commitment.

In October 2007 Staff was informed by a Prairie Township trustees that he had been performing his own hardness testing at the township fire station located next to the water treatment plant. Some of his test results showed a large fluctuation of hardness ranging from under 120 mg/L to levels at 180 mg/L or above. Staff ran some of its own tests and found some samples to be above the 150 mg/l upper hardness level that the Company agreed to in the last stipulation. However,

there were two circumstances that needed to be considered in evaluating the significance of these tests: first the test procedures the Company used in its lab tests were 17 times more accurate than can be obtained from the field test kits used by the trustee and Staff; second the Lake Darby water tower was down for cleaning, maintenance and painting during October and November 2007. It was not until after the tank was placed back into service and the township trustee sent verification samples to a certified lab, that a valid conclusion could be made. The lab results confirmed that some samples taken at the fire station were testing significantly above the approved range.

The Company was asked to explain the apparent discrepancy between the fire station samples and the average daily finished water sample results being recorded at the plant. The Company determined that the method of blending unsoftened water with water from the two softening units during their recharge cycle was a likely cause. Ion exchange softeners reduce water that passes through them to zero hardness. Totally softened water is extremely aggressive on plumbing and is not recommended or approved for consumption. Therefore, water companies "blend" some filtered treated water, back with water that has been softened until a desired level of hardness has been obtained. During periods when one of the two Lake Darby plant softeners were being regenerated, the amount of water being softened and delivered to the distribution system was cut in half, while no adjustment had been made to the blended water. This caused short spikes of hard water above the commitment level. The Company developed and implemented a solution by installing automatic valves on the blended water feed line to reduce the blended water during regeneration.

A second issue of concern occurred in February 2008 when the Lake Darby plant ran out of salt used to regenerate the softeners. The softeners did not work for one day and into the next, until an emergency shipment of salt arrived and the softeners could be regenerated. A Company investigation cited operator error as the reason and The Company has changed the salt level monitoring procedures to reduce the likelihood of a reoccurrence of the incident. The Company made a onetime aggregate credit of \$1,000 to the Lake Darby customers.

The Company is currently conducting a corrosion study relative to the Lake Darby system and any decision to consider reducing hardness levels to less than 120 mg/L would be inadvisable until the study is completed. As an aside, the Company's Worthington Hills system also provides ion-exchange softened water and uses an orthophosphate for corrosion control.

Recommendation

Staff recommends that the Company take additional monitoring steps to assure that the Company is not only producing water technically within the committed range, but that the Lake Darby customers are effectually receiving water consistently within the range. Staff recommends that the daily average hardness report consist of the average results from a minimum of four samples and not more that six finished water samples spaced evenly per day. These samples may be tested at the Lake Darby plant, but also must be tested by the Company's certified laboratory in Huber Ridge. At least one of the daily plant samples will be taken while one of the softeners is regenerating. Staff also recommends that the Company test at least weekly a minimum of two

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samples taken from the Lake Darby distribution system. The Company will resample the next day from the same site if results from it exceed 170 mg/L.

Staff also recommends the Commission order the Company to continue to report the results of the hardness testing to Staff. The Company will permit Staff to witness the collection and testing of any samples with 24 hours prior notice, and will permit the splitting of these samples for analysis by a laboratory.

Staff further recommends the Company provide an aggregate credit of \$1,000 available to Lake Darby customers for each occurrence where the daily average hardness levels from the plant's approved finished water sampling tap is under 120 mg/L or in excess of 150 mg/L for any two consecutive days. The aggregate credit shall also be made whenever samples from one of the distribution sites are found on two consecutive days to exceed 170 m/L.⁴ The Company shall provide Staff with a copy of any corrosion studies completed on the Lake Darby system within 30 days of completion.

[14] Mansfield Main Installation

Commitment

The Company committed to complete the replacement of approximately 3,000 feet of main in the Harpcrest system; Apple Lane and McElroy projects, by December 31, 2007.

Finding

The construction projects were completed and the replacement mains placed into service on October 18, 2007.

Recommendation: Staff has no recommendations at this time.

[15] Marion Slaker Installation

Commitment

The Company committed to replace two lime slakers including their gravimetric feeders, a lime bin hopper, and grit elevators at the Marion water treatment plant by December 31, 2007. The Company also committed to implement process control testing and monitoring to operate the water softening process to consistently and reliably produce finished water with softness within a daily average range of between 120 mg/L and 150 mg/l for at least 95 % of monthly samples.

⁴ The distribution site sample limit has been set at approximately 1 grain (17.1 mg/L) above the upper commitment level of the finished water taps to allow for field testing equipment accuracy.

Finding

The new slakers and associated equipment have been purchased and installed and were in use by the end of 2007.

The Company has been reporting the results of its hardness testing to the Staff, OCC, and the City of Marion as required. The following table shows a summary of the test results reported:

Summary of Marion District Monthly Hardness Statistics for Year 2007

	January	February	March	April	May	June	yluly	August	September	October	November	December	Annual (2007)
Maximum Day	153	146	152	152	147	149	155	149	154	155	150	153	155
Minimum Day	114	131	133	130	129	129	127	136	134	120	121	129	114
Average Daily	141	141	141	140	140	141	141	142	142	138	138	139	140
Number of Times Within Commitment Range	29	28	30	29	31	30	29	31	28	30	30	30	355
Number of Times Above 150 mg/L Upper Commitment Range	1		1	1			2		2	1		1	9
Number of Times Below 120 mg/L Lower Commitment Range	1												1
% Within Range	93.5	100.0	96.8	96.7	100.0	100.0	93.5	100.0	93,3	96.8	100.0	96.8	97.3
% Above 150 mg/l	3.2	0.0	3.2	3.3	0.0	0.0	6.5	0.0	6.7	3.2	0.0	3.2	2.5
% Below lower limit	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3

The Stipulation and Recommendation went into effect on March 7, 2007; therefore, the month of January was not considered in the review of the Company's performance in this commitment. The Company reported in July and September that it produced water within the commitment range only 93.5% and 93.3% of the time respectively. This represented two occurrences, the reported value on the 16th was 151 mg/L and on the 17th the reported value was 155 mg/L. The Company also reported two occurrences in September when the reported value on the 9th was 154 mg/L and on the 28th when the reported value was 152 mg/L. Staff finds that the variance above the upper commitment level on these four occurrences is relatively insignificant and that the overall annual average performance of 97.3% of reported samples within the commitment range of 120mg/L to 150mg/L shows that the commitment has been satisfactorily completed.

Recommendation

Staff recommends the Commission order the Company to continue sampling for finished water hardness and reporting the results monthly to Staff. No modifications to the testing or reporting requirements are recommended⁵.

[16] Ashtabula Treatment Plant

Commitment

The Company committed to analyzing least cost options for the Ashtabula Water Treatment Plant's capital investment program and to provide the Staff and OCC with a detailed report describing the financing options. Meetings were to be held at appropriate points in the planning process and prior to any construction, with Staff and OCC to discuss the reasons for selecting the renovation on new construction options and the proposed financing plan.

Finding

The Company states it is still in the early planning stages of evaluating its options, has not progressed to the point in its planning where it has developed least cost options, and thus no meetings have yet been held.⁶

Recommendations

Staff recommends that the Commission order the Company to keep Staff informed of any progress made in selecting and implementing major plant improvements or additions.

[17] Leak Repair

Commitment

The Company committed to repair non-service affecting leaks within seven days of detection and service affecting leaks within 24 hours of detection and to give Staff notice of instances where such leaks could not be repaired within the allotted time and why. In addition the Company was to provide the cause of the leak, the proposed remedies to address it, and the date when the leak is expected to be repaired.

⁶ Direct Testimony of David Little (page 20) docketed in Case No. 07-1112-WS-AIR on November 20, 2007.

⁵ The Marion Plant routinely samples for hardness approximately every two hours and averages the results over a twenty four hour period for reporting purposes.

Finding

The Company has been filing leakage reports with its quarterly report submissions that demonstrate substantial compliance with this commitment. The Company has also worked with Staff to refine its reporting format to make its interpretation more comprehensive and easier to understand.

Recommendation

Staff recommends that the Commission order the Company to continue to comply with this commitment and to continue to supply quarterly leakage reports.

[18] Restoration of Property Commitment

Commitment

The Company committed in Case No. 06-433-WS-AIR and in previous cases to restore property affected by its construction work in a satisfactory and timely manner and to keep detailed records that include the costs incurred and justification for projects that could have been completed in conjunction with the cities' activities, but for which the Company chose to act independently. The Company also agreed to keep records of all service and non-service affecting leak excavations. If the Company did not have existing records to satisfy the conditions of this requirement, the Company committed to develop a log that did. The Company was to submit this information with the quarterly operations report to Staff and OCC for projects involving Tiffin or Marion districts.

Finding

Staff sent inquiries to the Marion and Tiffin city engineers in July 2007 requesting confirmation of satisfactory compliance with the above commitments. The city of Tiffin did not reply to this inquiry, but the Marion city engineer did on July 27, 2007 with a recent list of pending excavation permits the city had issued to the Marion District. The first 11 permits on the list were issued during the period of October 2006 through April 2007, and were found by the city to still need work before they could be called completely restored. Staff investigated these sites and confirmed that at least six of them had not been satisfactorily restored as of July 31, 2007. This information was referred to the Company and docketed in Case No. 07-252-WS-UNC on August 17, 2007. The Company responded on September 19, 2007 saying its representatives were under the mistaken understanding that all repairs had been completed as required and that the necessary restorations were now complete.

The road and lawn restoration issues have been included in at least the last two rate cases because the Company had developed a history of taking a long time in repairing its excavation sites after completion of the original work. Conversations with city representatives show that the

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Company has greatly improved its procedures and is making a substantial effort to properly restore property after project completion. However, the six cases referred to above show that some additional internal monitoring needs to be set up to minimize future occurrences.

Paragraph 18L of the stipulation⁷ states that if the Company does not have existing records to satisfy the conditions of this requirement, then the Company shall develop a log that does. The Company worked with Staff and developed a revised leak log form that includes much of the data necessary for monitoring of excavation restorations.

Recommendation

Staff has no recommendations at this time.

Customer Survey

Staff surveys regulated water company customers approximately every five years to determine customers' satisfaction with their water service. All districts of the Ohio American Water Company were surveyed in August/September of 2007.

Finding

A total of 1,625 replies (or 23.2%) of 6,985 surveys mailed to the Company customers were received and have been tabulated. The surveys indicated that the Company has a wide range of customer satisfaction levels, but that the areas where the Company is perceived as having the lowest satisfactory performance remain in the Franklin County District. Water quality issues and high rates appear to be the primary issues where the customers expressed their dissatisfaction. An appendix at the end of this section provides a condensed table of survey results including perceptions of overall quality, pressure, and Company service responsiveness.

CUSTOMER SERVICE AUDIT

Finding

Staff completed a customer service audit in March 2008 regarding the customer service performance, practices, and procedures of the Company. Staff found that the Company Water's customer service representatives were competent and helpful to their customers. Other than the issues discussed elsewhere in the staff report, the Staff found that the customer service practices and policies of the Ohio American Water Company complied with the rules and regulations set forth by the PUCO.

⁷ Rate Case 06-0433-AIR

Customer Contacts

Finding

Staff reviewed the contacts made by Company customers to the PUCO Consumer Hotline (Hotline) for the period of February 1, 2007 through February 29, 2008. Overall, 685 contacts were made during this period. One hundred thirty-four customers called the Hotline before calling the Company. Most of these customers were seeking account information and were directed back to the Company to give the Company the first opportunity to respond to their customers. Contacts about disconnection issues or payment arrangements prompted 150 contacts. The next highest number related to billing or metering concerns, with 141 contacts. Service concerns prompted 45 contacts, while issues regarding new service accounted for 16 contacts. Twenty customers contacted the Hotline because they had difficulty reaching the Company. The remaining ten customers had comments on the Company's policies (6) or on the Commission (4).

One hundred and eleven customers contacted the Commission to protest the Company's current or previous rate case or regarding other tariff issues. Twenty-three customers had concerns about water quality issues, while another 13 voiced their concerns about the quality of the Company's customer service. The other 22 were miscellaneous contacts, such as questions about utility easements.

APPENDIX

Ohio American Water Company 2007 Customer Survey Detailed Results Mansfield Area Systems

	Bise	cayne	Bryo	onaire	For	d Rd	Gree	nridge	Hal	ibran
	Count		Count		Count	% Total	Count	% Total	Count	% Total
I would rate the	overall water qua	lity as:	·	·		· · · · · · · · · · · · · · · · · · ·				
1 Excellent	6	8.1%	6	16.2%	3	50.0%	8	25.0%	4	44.4%
2 Good	22	29.7%	16	43.2%	1	16.7%	14	43.8%	4	44.4%
3 Satisfactory	27	36.5%	10	27.0%	1	16.7%	10	31.3%	1	11.1%
4 Fair	8	10.8%	3	8.1%	1	16.7%				
5 Poor	11	14.9%	2	5.4%						
Total Responses	3 74	100.0%	37	100.0%	6	100.0%	32	100.0%	9	100.0%
Average Choice	2.95		1.29		2.00		2.06		1.67	
I would rate my v	water pressure as	:								
1 Excellent	8	11.0%	10	27.0%	3	60.0%	5	15.6%	5	55.6%
2 Good	31	42.5%	12	32.4%			13	40.6%	2	22.2%
3 Satisfactory	21	28.8%	12	32.4%	2	40.0%	6	18.8%	2	22.2%
4 Fair	10	13.7%	2	5.4%			7	21.9%		
5 Poor	3	4.1%	1	2.7%			1	3.1%		
Total Responses	73	100.0%	37	100.0%	5	100.0%	32	100.0%	9	100.0%
Average Choice	2.58		1.46		1.80		2.56		1.67	
etc.)	u experience disc								ak occas	ions,
	u experience disc	olored wat	er during	normal op	erations?	' (Excludin	g flushing	g/main brea	ak occas	ions,
etc.) 1 Never	11	16.7%	12	33.3%	4	66.7%	15	46.9%		
etc.) 1 Never 2	11 15	16.7% 22.7%	12 16	33.3% 44.4%			15 12	46.9% 37.5%	8	88.9%
etc.) 1 Never 2 3	11 15 18	16.7% 22.7% 27.3%	12 16 3	33.3% 44.4% 8.3%	4	66.7%	15 12 4	46.9% 37.5% 12.5%		88.9%
etc.) 1 Never 2 3	11 15 18 11	16.7% 22.7% 27.3% 16.7%	12 16	33.3% 44.4%	4	66.7%	15 12	46.9% 37.5%	8	88.9%
etc.) 1 Never 2 3 4 5 Frequently	11 15 18 11 11	16.7% 22.7% 27.3% 16.7%	12 16 3 5	33.3% 44.4% 8.3% 13.9%	2	66.7% 33.3%	15 12 4 1	46.9% 37.5% 12.5% 3.1%	8	88.9% 11.1%
etc.) 1 Never 2 3 4 5 Frequently Total Responses	11 15 18 11 11 11 6 66	16.7% 22.7% 27.3% 16.7%	12 16 3 5	33.3% 44.4% 8.3%	6	66.7%	15 12 4 1	46.9% 37.5% 12.5%	8 1	88.9% 11.1%
etc.) 1 Never 2 3 4 5 Frequently Total Responses Average Choice	11 15 18 11 11 11 66 3.16	16.7% 22.7% 27.3% 16.7% 16.7% 100.0%	12 16 3 5 36 1.43	33.3% 44.4% 8.3% 13.9%	2	66.7% 33.3%	15 12 4 1	46.9% 37.5% 12.5% 3.1%	8	88.9%
etc.) 1 Never 2 3 4 5 Frequently Total Responses Average Choice I currently utilize	11 15 18 11 11 6 66 3.16	16.7% 22.7% 27.3% 16.7% 100.0%	12 16 3 5 36 1.43	33.3% 44.4% 8.3% 13.9%	6 1.33	66.7% 33.3%	15 12 4 1 32 1.72	46.9% 37.5% 12.5% 3.1%	9 1.11	88.9% 11.1% 100.0%
etc.) 1 Never 2 3 4 5 Frequently Total Responses Average Choice I currently utilize Nothing	11 15 18 11 11 6 66 3.16 in my home (Che	16.7% 22.7% 27.3% 16.7% 16.7% 100.0%	12 16 3 5 36 1.43 apply)	33.3% 44.4% 8.3% 13.9% 100.0%	6	66.7% 33.3%	15 12 4 1 32 1.72	46.9% 37.5% 12.5% 3.1% 100.0%	8 1	88.9% 11.1%
etc.) 1 Never 2 3 4 5 Frequently Total Responses Average Choice I currently utilize Nothing Softening Syster	11 15 18 11 11 6 66 3.16 in my home (Che	16.7% 22.7% 27.3% 16.7% 100.0%	12 16 3 5 36 1.43	33.3% 44.4% 8.3% 13.9%	6 1.33	66.7% 33.3%	15 12 4 1 32 1.72	46.9% 37.5% 12.5% 3.1%	9 1.11	88.9% 11.1% 100.0%
etc.) 1 Never 2 3 4 5 Frequently Total Responses Average Choice I currently utilize Nothing Softening System Whole House War	11 15 18 11 11 11 11 5 66 3.16 in my home (Che 10 m 50 ater 29	16.7% 22.7% 27.3% 16.7% 16.7% 100.0%	12 16 3 5 36 1.43 apply)	33.3% 44.4% 8.3% 13.9% 100.0%	6 1.33	66.7% 33.3%	15 12 4 1 32 1.72	46.9% 37.5% 12.5% 3.1% 100.0%	9 1.11	88.9% 11.1% 100.0%
etc.) 1 Never 2 3 4 5 Frequently Total Responses Average Choice I currently utilize Nothing Softening System Whole House Wa	11 15 18 11 11 11 11 5 66 3.16 in my home (Che 10 n 50 ater 29 atment 8	16.7% 22.7% 27.3% 16.7% 16.7% 100.0% ck all that 10.3% 51.5% 29.9% 8.2%	12 16 3 5 36 1.43 apply) 17 12 6	33.3% 44.4% 8.3% 13.9% 100.0% 43.6% 30.8% 15.4%	6 1.33	66.7% 33.3% 100.0% 33.3% 66.7%	15 12 4 1 32 1.72	46.9% 37.5% 12.5% 3.1% 100.0% 63.6% 27.3% 9.1%	9 1.11	88.9% 11.1% 100.0% 88.9%
etc.) 1 Never 2 3 4 5 Frequently Total Responses Average Choice I currently utilize Nothing Softening System Whole House Ware Filter Point-of-Use Tre	11 15 18 11 11 11 11 6 66 3.16 in my home (Che 10 n 50 atter 29 atment 8	16.7% 22.7% 27.3% 16.7% 16.7% 100.0% ck all that a 10.3% 51.5% 29.9%	12 16 3 5 36 1.43 apply)	33.3% 44.4% 8.3% 13.9% 100.0% 43.6% 30.8% 15.4%	6 1.33	66.7% 33.3% 100.0%	15 12 4 1 32 1.72	46.9% 37.5% 12.5% 3.1% 100.0% 63.6% 27.3%	9 1.11	88.9% 11.1% 100.0% 88.9%
etc.) 1 Never 2 3 4 5 Frequently Total Responses Average Choice I currently utilize Nothing Softening Syster Whole House Wi Filter Point-of-Use Tre Device Total Responses	11 15 18 11 11 11 11 6 66 3.16 in my home (Che 10 n 50 atter 29 atment 8	16.7% 22.7% 27.3% 16.7% 10.0% ck all that a 10.3% 51.5% 29.9% 8.2% 100.0%	12 16 3 5 36 1.43 apply) 17 12 6 4 39	33.3% 44.4% 8.3% 13.9% 100.0% 43.6% 30.8% 15.4% 10.3% 100.0%	6 1.33	66.7% 33.3% 100.0% 33.3% 66.7%	15 12 4 1 32 1.72	46.9% 37.5% 12.5% 3.1% 100.0% 63.6% 27.3% 9.1%	9 1.11 8	88.9% 11.1% 100.0% 88.9% 11.1%

10

35

28.6%

100.0%

3

6

50.0%

100.0%

3

7

42.9%

100.0%

70.4%

100.0%

19

27

46.3%

100.0%

31

67

No

Total Responses

OHIO AMERICAN WATER COMPANY Case No. 07-1112-WS-AIR

Water

Sewer

Total Reponses

Q6	Promptly Answered?: Yes	28	57.1%	20	71.4%	4	100.0%	7	41.2%	5	71.4%
	No	8	16.3%	3	10.7%		100.070	1	5.9%	<u>~</u>	11.470
	Not Applicable	13	26.5%	5	17.9%			9	52.9%	2	28.6%
	Total Responses	49	100.0%	28	100.0%	4	100.0%	17	100.0%	7	100.0%
	rotal Nesponses	43	100.076	20	100.0%		100.0 %	17	100.076		100.076
7	Professional Manner?			1							
	Yes	31	64.6%	23	76.7%	4	100.0%	8	44.4%	5	71.4%
	No	3	6.3%	1	3.3%		<u> </u>	1	5.6%		
	Not Applicable	14_	29.2%	6	20.0%			9	50.0%	2	28.6%
	Total Responses	48	100.0%	30	100.0%	4	100.0%	18	100.0%	7	100.0%
} .	If you marked 'NO' for Pro	ofessiona	l Manner,	please e	xplain:						
	No Response	4	50.0%	1	33.3%			2	66.7%		
	Rude Service									-	
	Slow Service			1	33.3%						
	Talked Down to Me										
	Did Not Fix Problems										
	Called Several Times	1	12.5%	1	33.3%						
	Other	3	37.5%			1	100.0%	1	33.3%		
	Total Responses	8	100.0%	3	100.0%	1	100.0%	3	100.0%	0	
	1 Excellent	12	17.1%	3	8.6%					1	12.5%
	No such experience	44	62.9%	25	71.4%	3	60.0%	23	85.2%	7	87.5%
	2 Good	7	10.0%	7	20.0%	2	40.0%	3	11.1%		
	3 Satisfactory	6	8.6%					1	3.7%		
	4 Fair										
	5 Poor	1	1.4%				1				
	Total Responses	70	100.0%	35	100.0%	5	100.0%	27	100.0%	8	100.0%
0.	Emergency Response:										
٠.	No such experience	57	80.3%	24	72.7%	4	80.0%		78.6%		
					12.1%	7	50.076	22	10.076	7	87.5%
	1 Excellent	7	9.9%	3	9.1%	1	20.0%	22 1	3.6%	7 1	87.5% 12.5%
	1 Excellent 2 Good	7 2	9.9% 2.8%								
				3	9.1%			1	3.6%		
	2 Good	2	2.8%	3	9.1%			1	3.6%		
	Good Satisfactory	2	2.8%	3	9.1%			1	3.6%		
	2 Good 3 Satisfactory 4 Fair	2 4	2.8% 5.6%	3	9.1%			1 4	3.6% 14.3%		
1.	2 Good 3 Satisfactory 4 Fair 5 Poor	2 4 1 71	2.8% 5.6% 1.4% 100.0%	3 6	9.1% 18.2%	5	100.0%	1 1 28	3.6% 14.3% 3.6% 100.0%	8	12.5%
1.	2 Good 3 Satisfactory 4 Fair 5 Poor Total Responses In your community, which	2 4 1 71	2.8% 5.6% 1.4% 100.0%	3 6 33 consider	9.1% 18.2% 100.0%	5	20.0% 100.0% service curr	1 1 28	3.6% 14.3% 3.6% 100.0%	8	12.5%
1.	2 Good 3 Satisfactory 4 Fair 5 Poor Total Responses In your community, which apply).	2 4 1 71 utility rat	2.8% 5.6% 1.4% 100.0% es do you	3 6	9.1% 18.2% 100.0% reasonable	5 for the	100.0%	1 4 1 28	3.6% 14.3% 3.6% 100.0% ceived? (Cl	8	12.5% 100.0% that
1.	2 Good 3 Satisfactory 4 Fair 5 Poor Total Responses In your community, which apply). None	2 4 1 71 utility rat	2.8% 5.6% 1.4% 100.0% es do you 1.3% 13.5%	3 6 33 consider	9.1% 18.2% 100.0% reasonable 1.4% 7.1%	5 for the	20.0% 100.0% service curr 5.3% 21.1%	1 4 1 28 rently re 1 6	3.6% 14.3% 3.6% 100.0% ceived? (CI	8 neck all	12.5% 100.0% that
1.	2 Good 3 Satisfactory 4 Fair 5 Poor Total Responses In your community, which apply). None Gas	2 4 1 71 utility rat 2 21	2.8% 5.6% 1.4% 100.0% es do you	3 6 33 consider	9.1% 18.2% 100.0% reasonable 1.4% 7.1%	5 for the	20.0% 100.0% service curr 5.3% 21.1% 21.1%	1 4 1 28 rently re 1 6 17	3.6% 14.3% 3.6% 100.0% ceived? (CI 1.8% 10.9% 30.9%	8 neck all	12.5% 100.0% that 19.0% 28.6%
1.	2 Good 3 Satisfactory 4 Fair 5 Poor Total Responses In your community, which apply). None Gas Electric	2 4 71 71 utility rat 2 21 43	2.8% 5.6% 1.4% 100.0% es do you 1.3% 13.5% 27.7%	3 6 33 consider	9.1% 18.2% 100.0% reasonable 1.4% 7.1%	5 for the	20.0% 100.0% service curr 5.3% 21.1%	1 4 1 28 rently re 1 6	3.6% 14.3% 3.6% 100.0% ceived? (CI	8 neck all	12.5% 100.0% that

24.3%

11.4%

100.0%

4

1

19

21.1%

100.0%

5.3%

9

9

55

16.4%

16.4%

100.0%

2

4

21

9.5%

19.0%

100.0%

17

8

70

18

21

155

11.6%

13.5%

100.0%

Q12. Please express any comments or suggestions about your water service:

i lease express any com	HOIRS OF	auggoanon	o upout	your water	3014100.					
Color	20	28.2%	5	17.9%						
Flat Rate	4	5.6%					2	8.7%	1	25.0%
Follow-Up Needed										
Hardness	1	1.4%								
High Rates	17	23.9%	5	17.9%	2	66.7%	10	43.5%	1	25.0%
Low Pressure	4	5.6%	4	14.3%			4	17.4%		
No Comment										
Odor	1	1.4%	4	14.3%						
Other	8	11.3%	1	3.6%			3	13.0%	1	25.0%
Particles In Water	3	4.2%	2	7.1%						
Positive comment	8	11.3%	4	14.3%	1	33.3%	4	17.4%	1	25.0%
Rusty Water			1	3.6%						
Taste	2	2.8%	2	7.1%						
Won't Drink Water	3	4.2%								
Total Responses	71	100.0%	28	100.0%	3	100.0%	23	100.0%	4	100.0%

Ohio American Water Company 2007 Customer Survey Mansfield Area Systems

		Har	ocrest	Little	Valley	Ma	dison	Mol	nican	Wa	crest
		Count	% Total	Count	% Total	Count	% Total	Count	% Total	Count	% Total
Q1.	I would rate the	overall wa	ater quality	as:							
	1 Excellent	21	29.2%			17	28.8%	6	35.3%	1	11.1%
	2 Good	29	40.3%			14	23.7%	8	47.1%	2	22.2%
	3 Satisfactor v	17	23.6%			17	28.8%	2	11.8%	6	66.7%
	4 Fair	5	6.9%	1	100.0%	5	8.5%	1	5.9%		
	5 Poor					6	10.2%				
	Total Responses	72	100.0%	1	100.0%	59	100.0%	17	100.0%	9	100.0%
	Average Choice	2.08		4.00		2.47		1.88		2.56	
Q 2.	I would rate my	water pres	sure as:								
	1 Excellent	13	18.1%			17	28.8%	4	23.5%		
	2 Good 3	30	41.7%	1	100.0%	16	27.1%	10	58.8%	3	33.3%
	3 Satisfactor v	14	19.4%			17	28.8%	2	11.8%	3	33.3%
	4 Fair	9	12.5%			5	8.5%			1	11.1%
	5 Poor	6	8.3%			4	6.8%	1	5.9%	2	22.2%
	Total Responses	72	100.0%	1	100.0%	59	100.0%	17	100.0%	9	100.0%
	Average Choice	2.51		2.00		2.37		2.06		3.22	

etc.)										
1 Never	48	66.7%			29	50.9%	6	35.3%	3	37.5%
2	18	25.0%			22	38.6%	9	52.9%	2	25.0%
3	4	5.6%			3	5.3%	1	5.9%	1	12.5%
4					2	3.5%			1	12.59
5 Frequently	2	2.8%	1	100.0%	1	1.8%	1	5.9%	1	12.59
Total Responses	72	100.0%	1	100.0%	57	100.0%	17	100.0%	8	100.0
Average Choice	1.47		5.00		1.67		1.88		2.38	
l currently utilize i	in my hoi	ne (Check a	ll that ap	ply)						
Nothing [46	63.0%		. ,,	47	83.9%	11	64.7%	1	7.79
Softening System	21	28.8%	1	50.0%	3	5.4%	4	23.5%	8	61.59
Whole House Water Filter	5	6.8%	1	50.0%	1	1.8%			4	30.8
Point-of-Use Treatment Device	1	1.4%			5	8.9%	2	11.8%		
Total Responses If you called the comanner?	73 company	100.0% was your ca	2 Il answer	100.0% ed promptly	56 and was	100.0%	17 n addre	100.0%	13 fessiona	100.09
Responses If you called the comanner? Did you call										
Responses If you called the comanner? Did you call the company?	company	was your ca	ll answer	ed promptly	and was	your conce	n addre	ssed in a pro	fessiona	<u> </u>
Responses If you called the comanner? Did you call the company? Yes	company 32	was your ca			and was	s your conce		ssed in a pro	fessiona 5	55.6°
Responses If you called the comanner? Did you call the company?	company	was your ca	ll answer	ed promptly	and was	your conce	n addre	ssed in a pro	fessiona	<u> </u>
Responses If you called the comanner? Did you call the company? Yes No Total	company 32 33	was your ca 49.2% 50.8%	II answer	red promptly	and was 25 28	47.2% 52.8%	n addre	35.3% 64.7%	fessiona 5 4	55.6° 44.4°
Responses If you called the comanner? Did you call the company? Yes No Total Responses Promptly	company 32 33	was your ca 49.2% 50.8%	II answer	red promptly	and was 25 28	47.2% 52.8%	n addre	35.3% 64.7% 100.0%	fessiona 5 4	55.6° 44.4° 100.0°
Responses If you called the omanner? Did you call the company? Yes No Total Responses Promptly Answered?:	32 33 65	49.2% 50.8%	Il answer	100.0%	25 28 53	47.2% 52.8% 100.0%	6 11 17	35.3% 64.7% 100.0%	fessiona 5 4 9	55.6° 44.4° 100.0°
Responses If you called the omanner? Did you call the company? Yes No Total Responses Promptly Answered?: Yes No No Not Applicable	32 33 65	49.2% 50.8% 100.0%	Il answer	100.0%	25 28 53	47.2% 52.8% 100.0%	6 11 17	35.3% 64.7% 100.0%	fessiona 5 4 9	55.6 44.4 100.0
Responses If you called the omanner? Did you call the company? Yes No Total Responses Promptly Answered?: Yes No	32 33 65	49.2% 50.8% 100.0%	Il answer	100.0%	25 28 53	47.2% 52.8% 100.0% 58.3%	6 11 17	35.3% 64.7% 100.0% 36.4% 9.1%	fessiona 5 4 9	55.6 44.4 100.0 42.9
Responses If you called the omanner? Did you call the company? Yes No Total Responses Promptly Answered?: Yes No Not Applicable Total Responses	32 33 65 25 9	49.2% 50.8% 100.0% 61.0% 22.0% 17.1%	2 2	100.0% 100.0%	25 28 53 21 5 10	47.2% 52.8% 100.0% 58.3% 13.9% 27.8%	6 11 17	35.3% 64.7% 100.0% 36.4% 9.1% 54.5%	5 4 9 3 4	55.6° 44.4° 100.0° 42.9°
Responses If you called the omanner? Did you call the company? Yes No Total Responses Promptly Answered?: Yes No No Not Applicable Total Responses	32 33 65 25 9 7 41	49.2% 50.8% 100.0% 61.0% 22.0% 17.1% 100.0%	Il answer	100.0% 100.0%	25 28 53 21 5 10 36	47.2% 52.8% 100.0% 58.3% 13.9% 27.8%	6 11 17 4 1 6	35.3% 64.7% 100.0% 36.4% 9.1% 54.5%	5 4 9 3 4 7	55.6° 44.4°
Responses If you called the omanner? Did you call the company? Yes No Total Responses Promptly Answered?: Yes No Not Applicable Total Responses Professional Manner?	32 33 65 25 9 7 41	49.2% 50.8% 100.0% 61.0% 22.0% 17.1% 100.0%	2 2	100.0% 100.0% 100.0%	25 28 53 21 5 10	47.2% 52.8% 100.0% 58.3% 13.9% 27.8%	6 11 17	35.3% 64.7% 100.0% 36.4% 9.1% 54.5% 100.0%	5 4 9 3 4	55.6 ⁴ 44.4 ⁴ 100.0 ⁴ 42.9 ⁴ 100.0 ⁴
Responses If you called the omanner? Did you call the company? Yes No Total Responses Promptly Answered?: Yes No Not Applicable Total Responses	32 33 65 25 9 7 41	49.2% 50.8% 100.0% 61.0% 22.0% 17.1% 100.0%	Il answer	100.0% 100.0% 100.0%	25 28 53 51 10 36	47.2% 52.8% 100.0% 58.3% 13.9% 27.8% 100.0%	6 11 17 4 1 6 11	35.3% 64.7% 100.0% 36.4% 9.1% 54.5% 100.0%	5 4 9 3 4 7 3	55.6° 44.4° 100.0° 42.9° 57.1° 100.0°

Q8. If you marked 'NO' for Professional Manner, please explain:

No Response				6	54.5%			1	50.0%
Rude Service	1	14.3%		1	9.1%			1	50.0%
Slow Service				1	9.1%				
Talked Down to Me									
Did Not Fix Problems	1	14.3%				1	25.0%		
Called Several Times									
Other	5	71.4%		3	27.3%	3	75.0%		
Total Responses	7	100.0%	0	11	100.0%	4	100.0%	2	100.0%

The company's response time to service calls requests (e.g. meter re-read) and emergencies (e.g. main break) is : Service Call

Q9. Service

Response:										
No such experience	45	67.2%			34	64.2%	12	75.0%	5	71.4%
1 Excellent	8	11.9%			6	11.3%	2	12.5%	1	14.3%
2 Good	8	11.9%			8	15.1%	1]	6.3%	1	14.3%
3 Satisfactor y	3	4.5%	1	100.0%	4	1.9%				-
4 Fair	2	3.0%			1	1.9%	1	6.3%		
5 Poor	1	1.5%			3	5.7%		·		
Total Responses	67	100.0%	1	100.0%	53	100.0%	16	100.0%	7	100.0%

Q10. Emergency

respuise.										
No such experience	52	78.8%	1	100.0%	46	90.2%	14	87.5%	4	66.7%
1 Excellent	4	6.1%			3	5.9%	1	6.3%	2	33.3%
2 Good	6	9.1%								
3 Satisfactor y	2	3.0%			1	2.0%				
4 Fair	1	1.5%			1	2.0%	1	6.3%		
5 Poor	1	1.5%								
Total Responses	66	100.0%	1	100.0%	51	100.0%	16	100.0%	6	100.0%

Q11. In your community, which utility rates do you consider reasonable for the service currently received? (Check all that apply).

None	5	3.3%			3	2.3%			1	5.9%
Gas	21	13.8%			12	9.4%			3	17.6%
Electric	34	22.4%	1	50.0%	26	20.3%	8	36.4%	4	23.5%
Phone	26	17.1%			20	15.6%	4	18.2%	5	29.4%
Cable ⊺∨	13	8.6%			21	16.4%	1	4.5%	2	11.8%
Water	19	12.5%			23	18.0%	8	36.4%	1	5.9%
Sewer	34	22.4%	1	50.0%	23	18.0%	1	4.5%	1	5.9%
Total Reponses	152	100.0%	2	100.0%	128	100.0%	22	100.0%	17	100.0%

Q12. Please express any comments or suggestions about your water service:

Ashtabula

Color	1	1.1%				· · · · · · · · · · · · · · · · · · ·	1	10.0%		
Flat Rate	16	17.0%	1	20.0%			1	10.0%	 -	11.1%
Follow-Up Needed	8	8.5%		20.070			1	10.070		11.170
Hardness			1	20.0%			·			
High Rates	12	12.8%	2	40.0%	9	26.5%	5	50.0%	2	22.2%
Low Pressure	6	6.4%			3	8.8%			4	44.4%
No Comment	32	34.0%			2	5.9%				•
Odor	2	2.1%							1	11.1%
Other	12	12.8%	,		4	11.8%			1	11,1%
Particles In Water					2	5.9%				
Positive comment	3	3.2%			11	32.4%	2	20.0%		
Rusty Water							1	10.0%		
Taste	2	2.1%	1	20.0%	1	2.9%				
Won't Drink Water					2	5.9%				
Total Responses	94	100.0%	5	100.0%	34	100.0%	10	100.0%	9	100.0%

Ohio American Water Company 2007 Customer Survey Group "A" Districts

Lawrence County

Marion

Tiffin

Lake White

									, , ,	
	County	% Total	County	% Total	County	% Total	County	% Total	County	% Total
I would rate the ove	rall water q	uality as:			, ,					
1 Excellent	42	32.1%	9	9.2%	42	41.2%	24	15.4%	44	27.2%
2 Good	56	42.7%	26	26.5%	43	42.2%	60	38.5%	73	45.1%
3 Satisfactory	26	19.8%	27	27.6%	10	9.8%	44	28.2%	35	21.6%
4 Fair	1	0.8%	23	23.5%	6	5.9%	18	11.5%	9	5.6%
5 Poor	6	4.6%	13	13.3%	1	1.0%	10	6.4%	1	0.6%
Total Responses	131	100.0%	98	100.0%	102	100.0%	156	100.0%	162	100.0%
Average Choice	2.03		3.05		1.83		2.55		2.07	
l would rate my wate 1 Excellent	er pressure 49	as: 36.8%	26	26.5%	47	45.6%	42	26.6%	52	32.1%
2 Good	51	38.3%	38	38.8%	39	37.9%	51	32.3%	71	43.8%
3 Satisfactory	25	18.8%	16	16.3%	9	8.7%	48	30.4%	30	18.5%
4 Fair	4	3.0%	13	13.3%	4	3.9%	11	7.0%	4	2.5%
5 Poor	4	3.0%	5	5.1%	4	3.9%	6	3.8%	5	3.1%
Total Responses	133	100.0%	98	100.0%	103	100.0%	158	100.0%	162	100.0%
Average Choice	1.97		2.32		1.83		2.29		2.01	

How often do you e	xperience di	iscolored wate	er during no	rmal operat	tions? (Excl	uding flushing	/main brea	k occasions, e	etc.)	
1 Never	97	72.9%	12	12.6%	69	67.6%	72	45.6%	114	70.8%
2	26	19.5%	35	36.8%	20	19.6%	52	32.9%	37	23.0%
3	8	6.0%	19	20.0%	5	4.9%	26	16.5%	7	4.3%
4	0		11	11.6%	5	4.9%	5	3.2%	1	0.6%
5 Frequently	2	1.5%	18	18.9%	3	2.9%	3	1.9%	2	1.2%
Total Responses	133	100.0%	95	100.0%	102	100.0%	158	100.0%	161	100.0%
Average Choice	1.38		2.87		1.56	-	1.83		1.39	

Q4.	I currently utilize in my	/ home (Ch	eck all that a	apply)							
	Nothing	113	83.1%	48	47.1%	86	84.3%	116	75.3%	101	61.2%
	Softening System	4	2.9%	30	29.4%	1	1.0%	6	3.9%	43	26.1%
	Whole House Water Filter	3	2.2%	6	5.9%	3	2.9%	11	7.1%	4	2.4%
	Point-of-Use Treatment Device	16	11.8%	18	17.6%	12	11.8%	21	13.6%	17	10.3%
	Total Responses	136	100.0%	102	100.0%	102	100.0%	154	100.0%	165	100.0%
	property and the last last the control of the contr				-41				! !		
Q5.	If you called the comp Did you call the company?	any was yo	our call answ	erea promi	otiy and was	your concer	n addressed	in a protes	ssional man	iner <u>?</u>	
	Yes	44	36.4%	44	53.0%	30	32.6%	42	29.4%	34	22.7%
	No	77	63.6%	39	47.0%	62	67.4%	101	70.6%	116	77.3%
	Total Responses	121	100.0%	83	100.0%	92	100.0%	143	100.0%	150	100.0%
Q6	Promptly Answered?:		70 70 I	90.	07.00/		00 70/ I		D4 00/	07	0.4.40/
	Yes	37	78.7%	36	87.8%	23	69.7%	36	81.8%	27	84.4%
	No	10	21.3%	5	12.2%	10	30.3%	8	18.2%	5	15.6%
	Total Responses	47	100.0%	41	100.0%	33	100.0%	44	100.0%	32	100.0%
Q7	Professional Manner?										
	Yes	38	80.9%	33	78.6%	27	87.1%	37	90.2%	27	90.0%
	No	9	19.1%	9	21.4%	4	12.9%	4	9.8%	3	10.0%
	Total Responses	47	100.0%	42	100.0%	31	100.0%	41	100.0%	30	100.0%
Q8.	If you marked 'NO' for No Comment			lease expl	ain:						
	Rude Service	2	28.6%	4	28.6%	2	33.3%	3	16.7%	1	50.0%
	Slow Service										
	Talked Down to Me										
	Did Not Fix Problems							1	5.6%	1	50.0%
	No Response			1	7.1%			9	50.0%		
	Called Several Times										
	Other	5	71.4%	9	64.3%	4	66.7%	5	27.8%		

100.0%

14

100.0%

6

18 100.0%

100.0%

100.0%

Total Responses

	No such experience	95	75.4%	53	63.9%	76	80.9%	107	75.9%	122	83.0%
	1 Excellent	14	11.1%	13	15.7%	8	8.5%	12	8.5%	14	9.5%
	2 Good	7	5.6%	10	12.0%	7	7.4%	7	5.0%	8	5.49
	3 Satisfactory	5	4.0%	4	4.8%	1	1.1%	6	4.3%	3	2.0%
	4 Fair	5	4.0%	2	2.4%			6	4.3%		<u> </u>
	5 Poor	0		1	1.2%	2	2.1%	3	2.1%		ļ
	Total Responses	126	100.0%	83	100.0%	94	100.0%	141	100.0%	147	100.0%
Q10.	Emergency Response:				_						
	No such experience	109	84.5%	59	72.0%	79	85.9%	121	87.7%	130	91.5%
	1 Excellent	7	5.4%	10	12.2%	7	7.6%	7	5.1%	8	5.69
	2 Good	5	3.9%	6	7.3%	4	4.3%	2	1.4%	1	0.79
	3 Satisfactory	3	2.3%	4	4.9%		•	4	2.9%	2	1.49
	4 Fair	4	3.1%	2	2.4%			2	1.4%	1	0.79
	5 Poor	1	0.8%	1	1.2%	2	2.2%	2	1.4%		
	Total Responses	129	100.0%	82	100.0%	92	100.0%	138	100.0%	142	100.0%
Q11.	In your community, which	utility rates	do vou cons	sider reason	nable for the	service cur	rently receiv	ed? (Che	rk all that a	innly)	
QII.	None	14	6.1%	6	3.2%	3	1.2%	10	3.0%	4	1.19
	Gas	27	11.8%	18	9.5%	20	7.8%	45	13.6%	43	12.19
	Electric	59	25.8%	54	28.6%	52	20.3%	85	25.6%	86	24.29
	Phone	27	11.8%	49	25.9%	49	19.1%	62	18.7%	66	18.5%
	Cable TV	24	10.5%	24	12.7%	26	10.2%	28	8.4%	40	11.29
	Water	57	24.9%	25	13.2%	60	23.4%	63	19.0%	67	18.8%
	Sewer	21	9.2%	13	6.9%	46	18.0%	39	11.7%	50	14.0%
	Total Reponses	229	100.0%	189	100.0%	256	100.0%	332	100.0%	356	100.09
	Name with the control of the control								1		1444
Q12.	Please express any comm	ne <u>nts or su</u> g	gestions ab	out your wa	ater service:						
	Color	3	2.1%	10	7.0%	1	0.8%	7	3.3%	1	1.5%
	Follow-Up Needed	6	4.1%	1	0.7%	8	6.3%	21	10.0%		
	Hardness			6	4.2%	1	0.8%	2	1.0%	3	4.6%
	High Rates	14	9.7%	18	12.7%	10	7.9%	19	9.0%	13	20.0%
	Low Pressure	3	2.1%	3	2.1%	1	0.8%	5	2.4%	4	6.2%
	No Comment	76	52.4%	41	28.9%	59	46.5%	90	42.9%	2	3.1%
	Odor	4	2.8%	5	3.5%	4	3.1%	10	4.8%	. 5	7.7%
	Other	23	15.9%	34	23.9%	23	18.1%	26	12.4%	6	9.2%
	Particles in Water					1	0.8%	1	0.5%	4	6.2%
	Positive comment	10	6.9%	3	2.1%	12	9.4%	8	3.8%	19	29.2%
	Taste	6	4.1%	9	6.3%	4	3.1%	14	6.7%	7	10.8%
	Won't Drink Water			12	8.5%	3	2.4%	7	3.3%	1	1.5%
	Total Responses	145	100.0%	142	100.0%	127	100.0%	210	100.0%	65	100.0%

	İ		klick	Huber	Ridge	Lake	Darby	<u>Timbe</u>	rbrook
		Coun	%	Coun	%	Coun	%	Coun	%
		t	Total	t	Total	t	Total	t	Total
	ld rate the overall water	r quality a							
1 Ex	cellent	4	4.7%	9	8.3%	2	2.4%	10	10.9%
2 Go	od	6	7.0%	31	28.7%	15	17.6%	30	32.69
	tisfactory	21	24.4%	36	33.3%	28	32.9%	22	23.99
4 Fa		16	18.6%	21	19.4%	25	29.4%	22	23.99
5 P	oor	39	45.3%	<u>11</u>	10.2%	15	17.6%	8	8.79
	Responses	86	100.0 %	108	100.0 %	85	100.0 <u>%</u>	92	100.
Avera	ge Choice	3.93		2.94		3.42		2.87	
2 Go 3 Sa	tisfactory	29 34 4	34.9% 41.0% 4.8% 3.6%	47 26 9	43.5% 24.1% 8.3% 7.4%	32 29 8 3	38.1% 34.5% 9.5% 3.6%	35 22 12 4	38.09 23.99 13.09 4.39
Total Avera	oor Responses ge Choice	3 83 2.55	100.0	108 2.46	100.0	84 2.50	100.0 %	92 2.42	
5 P Total Avera How coccas 1 N	oor Responses	83 2.55	100.0	108 2.46	100.0	84 2.50	%	2.42	break
5 P Total Avera How coccas 1 N	oor Responses ge Choice often do you experience ions, etc.)	83 2.55 discolore 29 23	100.0 % d water dur 33.7% 26.7%	108 2.46 ring norm 28 33	100.0 % nal operation 26.4% 31.1%	84 2.50 ons? (Exc 39 23	%	2.42 hing/mair 51 21	56.0% 23.1%
5 P Total Avera How coccas 1 N	oor Responses ge Choice often do you experience ions, etc.)	83 2.55 discolore	100.0 % d water dur 33.7% 26.7% 19.8%	108 2.46 ring norm	100.0 % nal operation 26.4% 31.1% 25.5%	84 2.50 ons? (Exc 39 23 13	% sluding flust 47.0% 27.7% 15.7%	2.42 hing/mair 51 21 8	56.0% 23.1% 8.8%
Total Avera How coccas 1 N 2 3	oor Responses ge Choice often do you experience ions, etc.) ever	83 2.55 discolore 29 23 17 9	100.0 % d water dur 26.7% 19.8% 10.5%	108 2.46 ring norm 28 33 27 9	100.0 % nal operation 26.4% 31.1% 25.5% 8.5%	84 2.50 ons? (Exc 39 23 13 2	%	2.42 hing/mair 51 21 8 5	56.0% 23.1% 8.8% 5.5%
Total Avera How coccas 1 N 2 3	oor Responses ge Choice often do you experience ions, etc.)	83 2.55 discolore 29 23 17	100.0 % d water dur 26.7% 19.8% 10.5% 9.3%	108 2.46 ring norm 28 33 27	100.0 % nal operation 26.4% 31.1% 25.5% 8.5% 8.5%	84 2.50 ons? (Exc 39 23 13	%	2.42 hing/mair 51 21 8	56.09 23.19 8.89 5.59 6.69
Total Avera How coccas N 2 3 4 5 F	oor Responses ge Choice often do you experience ions, etc.) ever	83 2.55 discolore 29 23 17 9	100.0 % d water dur 33.7% 26.7% 19.8% 10.5% 9.3% 100.0	108 2.46 ring norm 28 33 27 9	100.0 % nal operation 26.4% 31.1% 25.5% 8.5% 8.5% 100.0	84 2.50 ons? (Exc 39 23 13 2	%	2.42 hing/mair 51 21 8 5	56.09 23.19 8.89 5.59 6.69
Total Avera How coccas N 2 3 4 5 F	oor Responses ge Choice often do you experience ions, etc.) ever	83 2.55 discolore 29 23 17 9 8	100.0 % d water dur 26.7% 19.8% 10.5% 9.3%	108 2.46 ring norm 28 33 27 9	100.0 % nal operation 26.4% 31.1% 25.5% 8.5% 8.5%	84 2.50 ons? (Exc 39 23 13 2 6	%	2.42 hing/main 51 21 8 5 6	100. 9 break 56.0% 23.1% 8.8% 5.5% 6.6% 100.
Total Avera How coccas 1 N 2 3 4 5 F Total I Avera	oor Responses ge Choice often do you experience ions, etc.) ever requently Responses ge Choice	2.55 discolore 29 23 17 9 8 86 2.35	100.0 % d water dur 33.7% 26.7% 19.8% 10.5% 9.3% 100.0 %	108 2.46 ring norm 28 33 27 9 106 2.42	100.0 % nal operation 26.4% 31.1% 25.5% 8.5% 8.5% 100.0 %	84 2.50 ons? (Exc 39 23 13 2 6 83 1.95	%	2.42 hing/main 51 21 8 5 6 91 1.84	56.09 23.19 8.89 5.59 6.69
Total Avera How coccas Nothir	oor Responses ge Choice often do you experience ions, etc.) ever requently Responses ge Choice ently utilize in my home	2.55 discolore 29 23 17 9 8 86 2.35 (Check all	100.0 % d water dur 33.7% 26.7% 19.8% 10.5% 9.3% 100.0 %	108 2.46 ring norm 28 33 27 9 106 2.42	100.0 % nal operation 26.4% 31.1% 25.5% 8.5% 100.0 %	84 2.50 ons? (Exc 39 23 13 2 6 83 1.95	%	2.42 hing/mair 51 21 8 5 6 91 1.84	56.09 23.19 8.89 5.59 6.69 100.
Total Avera How coccas 1 N 2 3 4 5 F Total I Avera I curre Nothir Softer	oor Responses ge Choice often do you experience ions, etc.) ever requently Responses ge Choice ently utilize in my home of	83 2.55 discolore 29 23 17 9 8 86 2.35 (Check all 36 43	100.0 % d water dur 33.7% 26.7% 19.8% 10.5% 9.3% 100.0 % 1 that apply 35.3% 42.2%	108 2.46 ring norm 28 33 27 9 106 2.42	100.0 % nal operation 26.4% 31.1% 25.5% 8.5% 100.0 % 62.1% 10.3%	84 2.50 ons? (Exc 39 23 13 2 6 83 1.95	%	2.42 hing/mair 51 21 8 5 6 91 1.84	56.0% 23.1% 8.8% 5.5% 6.6% 100.
Total Avera How coccas Nothir Softer Whole	oor Responses ge Choice often do you experience ions, etc.) ever requently Responses ge Choice ently utilize in my home ing ing System House Water Filter	83 2.55 discolore 29 23 17 9 8 86 2.35 (Check all 36 43 13	100.0 % d water dur 33.7% 26.7% 19.8% 10.5% 9.3% 100.0 % I that apply 35.3% 42.2% 12.7%	108 2.46 ring norm 28 33 27 9 106 2.42	100.0 % hal operation 26.4% 31.1% 25.5% 8.5% 100.0 % 62.1% 10.3% 10.3%	84 2.50 ons? (Exc 39 23 13 2 6 83 1.95	%	2.42 hing/mair 51 21 8 5 6 91 1.84	56.09 23.19 8.89 5.59 6.69
Total Avera How coccas Nothir Softer Whole	oor Responses ge Choice often do you experience ions, etc.) ever requently Responses ge Choice ently utilize in my home of the system e House Water Filter of-Use Treatment	83 2.55 discolore 29 23 17 9 8 86 2.35 (Check all 36 43	100.0 % d water dur 33.7% 26.7% 19.8% 10.5% 9.3% 100.0 % 1 that apply 35.3% 42.2%	108 2.46 ring norm 28 33 27 9 106 2.42	100.0 % nal operation 26.4% 31.1% 25.5% 8.5% 100.0 % 62.1% 10.3%	84 2.50 ons? (Exc 39 23 13 2 6 83 1.95	%	2.42 hing/mair 51 21 8 5 6 91 1.84	56.0° 23.1° 8.8° 5.5° 6.6° 100.

Yes	39	49.4%	48	48.5%		37.5%	38	44.2%
No	40	50.6%	51	51.5%	50	62.5%	48	55.8%

		Blac	klick	Huber	Ridge	Lake	Darby	Timbe	rbrook
		Coun	%	Coun	%	Coun	%	Coun	%
		t	Total	t	Total	t	Totai	t	Total
	Total Responses	79	100.0 %	99	100.0 %	80	100.0 %	86	100.0 %
Q 6	Promptly Answered?:								
	Yes	29	72.5%	33	70.2%	25	69.4%	34	85.0%
	No	11	27.5%	14	29.8%	11	30.6%	6	15.0%
	Total Responses	40	100.0 %	47	100.0 %	36	100.0 %	40	100.0 %
Q 7	Professional Manner?								
	Yes	28	70.0%	28	63.6%	22	64.7%	31	83.8%
	No	12	30.0%	16	36.4%	12	35.3%	6	16.2%
	Total Responses	40	100.0	44	100.0	34	100.0	37	100.0 %
Q8.	If you marked 'NO' for Profe	secional Ma	· · · · · · · · · · · · · · · · · · ·	e ovnloin			······································		
жо.	Called Several Times	SSIONAL IVIA	liller, picas	e explair					
	Did Not Fix Problems					1	10.0%	5	71.4%
	No Comment		8.3%			<u> </u>	10.0%	5	11.470
			0.370						
	No Response Other	6	50.0%	17	77.3%	5	50.0%	1	14.3%
	Duda Carvica	1 5	A1 7%	3	12 A% I	1	ነ ለበ በ‰ ፣	1	1/1/20%
	Rude Service	5	41.7%	3	13.6%	4	40.0%	1	14.3%
	Slow Service		41.7%	2	9.1%	4	40.0%	1	14.3%
	Slow Service Talked Down to Me	0		2	9.1%				
	Slow Service		100.0			10	40.0% 100.0 %	7	100.0
\9 .	Slow Service Talked Down to Me Total Responses The company's response tirbreak) is: Service Call Response:	0 12 me to service	100.0 % e calls requ	2 22 uests (e.c	9.1% 100.0 % g. meter re	10 -read) an	100.0 % d emergen	7 cies (e.g.	100.0 % main
) 9.	Slow Service Talked Down to Me Total Responses The company's response tire break) is: Service Call Response: No such experience	0 12 me to service 57	100.0 % e calls requ	2 22 uests (e.c	9.1% 100.0 % g. meter re	10 -read) an	100.0 % d emergen	7 cies (e.g.	100.0 % main 69.0%
) 9.	Slow Service Talked Down to Me Total Responses The company's response tire break) is: Service Call Response: No such experience 1 Excellent	0 12 me to service 57 8	100.0 % e calls requ 71.3% 10.0%	2 22 uests (e.c	9.1% 100.0 % g. meter re 74.5% 2.9%	10 -read) an 61 6	100.0 % d emergen 77.2% 7.6%	7 cies (e.g. 58 9	100.0 % main 69.0% 10.7%
Q 9.	Slow Service Talked Down to Me Total Responses The company's response tire break) is: Service Call Response: No such experience 1 Excellent 2 Good	0 12 me to service 57 8 1	100.0 % e calls requ 71.3% 10.0% 1.3%	2 22 uests (e.c	9.1% 100.0 % q. meter re 74.5% 2.9% 5.9%	10 -read) an 61 6 2	100.0 % d emergen 77.2% 7.6% 2.5%	7 cies (e.g. 58 9 6	100.0 % main 69.0% 10.7% 7.1%
Q 9.	Slow Service Talked Down to Me Total Responses The company's response tire break) is: Service Call Response: No such experience 1 Excellent 2 Good 3 Satisfactory	0 12 me to service 57 8 1 1 7	71.3% 10.0% 1.3% 8.8%	2 22 uests (e.c	9.1% 100.0 % q. meter re 74.5% 2.9% 5.9% 5.9%	10 -read) an 61 6 2 4	77.2% 7.6% 2.5% 5.1%	7 cies (e.g. 58 9 6 6	100.0 % main 69.0% 10.7% 7.1% 7.1%
Q 9.	Slow Service Talked Down to Me Total Responses The company's response tire break) is: Service Call Response: No such experience 1 Excellent 2 Good 3 Satisfactory 4 Fair	0 12 me to service 57 8 1 7	71.3% 10.0% 10.0% 1.3% 8.8% 5.0%	2 22 uests (e.c	9.1% 100.0 % 9.1% 74.5% 2.9% 5.9% 5.9% 3.9%	10 -read) an 61 6 2 4 4	77.2% 7.6% 2.5% 5.1%	7 cies (e.g. 58 9 6 6 4	100.0 % main 69.0% 10.7% 7.1% 7.1% 4.8%
29.	Slow Service Talked Down to Me Total Responses The company's response tire break) is: Service Call Response: No such experience 1 Excellent 2 Good 3 Satisfactory	0 12 me to service 57 8 1 1 7	71.3% 10.0% 1.3% 1.3% 8.8% 5.0% 3.8%	2 22 uests (e.c	9.1% 100.0 % 9.1% 74.5% 2.9% 5.9% 5.9% 6.9%	10 -read) an 61 6 2 4	77.2% 7.6% 2.5% 5.1% 2.5%	7 cies (e.g. 58 9 6 6	100.0 % main 69.0% 10.7% 7.1% 7.1% 4.8% 1.2%
Q9.	Slow Service Talked Down to Me Total Responses The company's response tire break) is: Service Call Response: No such experience 1 Excellent 2 Good 3 Satisfactory 4 Fair	0 12 me to service 57 8 1 7	71.3% 10.0% 10.0% 1.3% 8.8% 5.0%	2 22 uests (e.c	9.1% 100.0 % 9.1% 74.5% 2.9% 5.9% 5.9% 3.9%	10 -read) an 61 6 2 4 4	77.2% 7.6% 2.5% 5.1%	7 cies (e.g. 58 9 6 6 4	100.0 % main 69.0% 10.7% 7.1% 4.8% 1.2% 100.0
	Slow Service Talked Down to Me Total Responses The company's response tire break) is: Service Call Response: No such experience 1 Excellent 2 Good 3 Satisfactory 4 Fair 5 Poor	0 12 me to service 57 8 1 7 4 3	71.3% 10.0% 1.3% 8.8% 5.0% 3.8% 100.0	2 22 uests (e.g	9.1% 100.0 % 9.1% 74.5% 2.9% 5.9% 5.9% 6.9% 100.0	10 -read) an 61 6 2 4 4 2	77.2% 7.6% 2.5% 5.1% 2.5% 100.0	7 cies (e.g. 58 9 6 6 4	100.0 % main 69.0% 10.7% 7.1% 7.1% 4.8% 1.2% 100.0
	Slow Service Talked Down to Me Total Responses The company's response tire break) is: Service Call Response: No such experience 1 Excellent 2 Good 3 Satisfactory 4 Fair 5 Poor Total Responses	0 12 me to service 57 8 1 7 4 3	71.3% 10.0% 1.3% 8.8% 5.0% 3.8% 100.0	2 22 uests (e.g	9.1% 100.0 % 1. meter re 74.5% 2.9% 5.9% 5.9% 3.9% 6.9% 100.0 %	10 -read) an 61 6 2 4 4 2	77.2% 7.6% 2.5% 5.1% 2.5% 100.0	7 cies (e.g. 58 9 6 6 4	100.0 % main 69.0% 7.1% 7.1% 4.8% 1.2% 100.0
	Slow Service Talked Down to Me Total Responses The company's response tire break) is: Service Call Response: No such experience 1 Excellent 2 Good 3 Satisfactory 4 Fair 5 Poor Total Responses Emergency Response:	0 12 me to service 57 8 1 7 4 3 80	71.3% 10.0% 10.0% 1.3% 8.8% 5.0% 3.8% 100.0	2 22 uests (e.d 76 3 6 6 4 7 102	9.1% 100.0 % 9.1% 74.5% 2.9% 5.9% 5.9% 6.9% 100.0	10 -read) an 61 6 2 4 4 2 79	77.2% 7.6% 2.5% 5.1% 2.5% 100.0	7 cies (e.g. 58 9 6 6 4 1	100.0 % main 69.0% 10.7% 7.1% 4.8% 1.2% 100.0 %
	Slow Service Talked Down to Me Total Responses The company's response tire break) is: Service Call Response: No such experience 1 Excellent 2 Good 3 Satisfactory 4 Fair 5 Poor Total Responses Emergency Response: No such experience 1 Excellent	0 12 me to service 57 8 1 7 4 3 80	71.3% 10.0% 10.0% 1.3% 8.8% 5.0% 3.8% 100.0 %	2 22 uests (e.d. 76 3 6 6 4 7 102	9.1% 100.0 % 2. meter re 74.5% 2.9% 5.9% 5.9% 3.9% 6.9% 100.0 %	10 -read) an 61 6 2 4 4 2 79	77.2% 7.6% 2.5% 5.1% 2.5% 100.0	7 cies (e.g. 58 9 6 6 4 1 84 71	100.0 % main 69.0% 10.7% 7.1% 4.8% 1.2% 100.0 %
Q9. Q10	Slow Service Talked Down to Me Total Responses The company's response tire break) is: Service Call Response: No such experience 1 Excellent 2 Good 3 Satisfactory 4 Fair 5 Poor Total Responses Emergency Response: No such experience 1 Excellent 2 Good	0 12 me to service 57 8 1 7 4 3 80	71.3% 10.0% 10.0% 1.3% 8.8% 5.0% 3.8% 100.0	2 22 uests (e.c 76 3 6 6 4 7 102	9.1% 100.0 % 9.1% 74.5% 2.9% 5.9% 5.9% 100.0 % 93.1% 3.0%	10 -read) an 61 6 2 4 4 2 79	77.2% 7.6% 2.5% 5.1% 2.5% 100.0	70 cies (e.g. 58 9 6 6 4 1 84 71 4 4 4	69.0% 10.7% 7.1% 7.1% 4.8% 1.2% 100.0 % 85.5% 4.8% 4.8%
	Slow Service Talked Down to Me Total Responses The company's response tire break) is: Service Call Response: No such experience 1 Excellent 2 Good 3 Satisfactory 4 Fair 5 Poor Total Responses Emergency Response: No such experience 1 Excellent	0 12 me to service 57 8 1 7 4 3 80	71.3% 10.0% 10.0% 1.3% 8.8% 5.0% 3.8% 100.0 %	2 22 uests (e.c 76 3 6 6 4 7 102	9.1% 100.0 % 9.1% 74.5% 2.9% 5.9% 5.9% 3.9% 6.9% 100.0 % 93.1% 3.0% 1.0%	10 -read) an 61 6 2 4 4 2 79	77.2% 7.6% 2.5% 5.1% 2.5% 100.0	7 cies (e.g. 58 9 6 6 4 1 84 71 4	100.0 % main 69.0% 10.7% 7.1% 4.8% 1.2% 100.0 %

Total Responses

Blac	klick	Huber Ridge		Lake	Darby	Timbe	rbrook
Coun	%	Coun	%	Coun	%	Coun	%
t	Total	t	Total	t	Total	t	Total
75	100.0 %	101	100.0 %	79	100.0 %	83	100.0 %

In your community, which utility rates do you consider reasonable for the service currently received? (Check all that apply). Q11

Gas 34 17.4% 42 18.6% 28 14.8% 33 15.2 Electric 52 26.7% 61 27.0% 49 25.9% 52 24.0 Phone 49 25.1% 63 27.9% 56 29.6% 47 21.7 Cable TV 33 16.9% 36 15.9% 33 17.5% 28 12.9 Water 13 6.7% 11 4.9% 11 5.8% 37 17.1	Total Reponses	195	100.0 %	226	100.0 %	189	100.0 %	217	100.0 %
Gas 34 17.4% 42 18.6% 28 14.8% 33 15.2 Electric 52 26.7% 61 27.0% 49 25.9% 52 24.0 Phone 49 25.1% 63 27.9% 56 29.6% 47 21.7 Cable TV 33 16.9% 36 15.9% 33 17.5% 28 12.9	Sewer	7	3.6%	7	3.1%	9	4.8%	14	6.5%
Gas 34 17.4% 42 18.6% 28 14.8% 33 15.2 Electric 52 26.7% 61 27.0% 49 25.9% 52 24.0 Phone 49 25.1% 63 27.9% 56 29.6% 47 21.7	Water	13	6.7%	11	4.9%	11	5.8%	37	17.1%
Gas 34 17.4% 42 18.6% 28 14.8% 33 15.2 Electric 52 26.7% 61 27.0% 49 25.9% 52 24.0	Cable TV	33	16.9%	36	15.9%	33	17.5%	28	12.9%
Gas 34 17.4% 42 18.6% 28 14.8% 33 15.2	Phone	49	25.1%	63	27.9%	56	29.6%	47	21.7%
(but a local design of the latter of the lat	Electric	52	26.7%	61	27.0%	49	25.9%	52	24.0%
None 7 3.6% 6 2.7% 3 1.6% 6 2.8	Gas	34	17.4%	42	18.6%	28	14.8%	33	15.2%
	None	7	3.6%	6	2.7%	3	1.6%	6	2.8%

Q12 Please express any comments or suggestions about your water service:

Color	7	4.5%	18	10.3%	5	3.6%	2	3.3%
Follow-Up Needed	14	8.9%	20	11.4%	11	8.0%		
Hardness	26	16.6%	7	4.0%	19	13.8%	11	18.0%
High Rates	36	22.9%	43	24.6%	45	32.6%	11	18.0%
Low Pressure	1	0.6%	3	1.7%	2	1.4%	3	4.9%
No Comment	26	16.6%	37	21.1%_	24	17.4%		
Odor	2	1.3%	7	4.0%	4	2.9%	3	4.9%
Other	20	12.7%	30	17.1%	14	10.1%	14	23.0%
Particles in Water	3	1.9%	4	2.3%			6	9.8%
Positive comment	3	1.9%			1	0.7%	9	14.8%
Rusty Water								
Taste	4	2.5%			7	5.1%	2	3.3%
Won't Drink Water	15	9.6%	6	3.4%	6	4.3%		
Total Responses	157	100.0 %	175	100.0 %	138	100.0 %	61	100.0 %

			-	-			
		Wor	thington	Auro	ra East	Beed	hcrest
		Count		Coun		Count	
Q 1.	I would rate the overall water	quality as	S:	-			
	1 Excellent	11	9.6%	7	12.5%	11	8.9%
	2 Good	26	22.8%	19	33.9%	27	22.0%
	3 Satisfactory	37	32.5%	22	39.3%	39	31.7%
	4 Fair	22	19.3%	5	8.9%	27	22.0%
	5 Poor	18	15.8%	3	5.4%	19	15.4%
	Total Responses	114	100.0%	56	100.0%	123	100.0%
	Average Choice	3.09		2.61		3.13	
	er - ou es se una este antica de la company	•		• "			
Q2.	I would rate my water						
QΖ.	pressure as:						-
	1 Excellent	21	18.1%	8	14.3%	16	12.9%
	2 Good	44	37.9%	13	23.2%	34	27.4%
	3 Satisfactory	32	27.6%	21	37.5%	33	26.6%
	4 Fair	15	12.9%	8	14.3%	18	14.5%
	5 Poor	4	3.4%	6	10.7%	23	18.5%
	Total Responses	116	100.0%	56	100.0%	124	100.0%
	Average Choice	2.46		2.84		2.98	
	1 Never 2 3 4 5 Frequently	37 45 25 6	31.9% 38.8% 21.6% 5.2% 2.6%	10 25 9 4 7	18.2% 45.5% 16.4% 7.3% 12.7%	16 34 33 18 23	12.9% 27.4% 26.6% 14.5% 18.5%
	Total Responses	116	100.0%	55	100.0%	124	100.0%
	Average Choice	2.08		2.51		2.48	
Q4.	I currently utilize in my home				70.40/	74	~ 4 404 T
	Nothing	57	46.7%	38	70.4%	74	54.4%
	Softening System	24	19.7%	3	5.6%	35	25.7%
	Whole House Water Filter	8	6.6%	5	9.3%	16	11.8%
	Point-of-Use Treatment	33	27.0%	8	14.8%	11	8.1%
	Device Total Pagagagas	122	100.0%	54	100.0%	136	100.0%
	Total Responses	122	100,070 [04	100.0 /6	130	100.076
Q 5.	If you called the company was addressed in a professional n Did you call the company?	s your call nanner?	answered	promptly a	and was yo	ur concern	
wυ,	Yes	47	43.1%	28	51.9%	70	57.4%
	No	62	56.9%	26		52	42.6%
	Total Responses	109	100.0%	54		122	100.0%
	Total Nesholises	103	100.0 /6	1 34	100.070	1	100.0 /6
Q6	Promptly Answered?:	37	77.1%	1 00	70 20/	<u> </u>	77 20/
	Yes	11	22.9%	23		51 15	77.3% 22.7%
	No		22.3%	.l. 6	20.7%	10	22.1%

	Vvortr	nington	Auror	a <u>Eas</u> t	Reed	hcrest
	Count		Count	% Total	Count	% Total
Total Responses	48	100.0%	29	100.0%	66	100.0%
Professional Manner?						
Yes	39	92.9%	22	78.6%	75	70.8%
the state of the s			6		31	29.2%
Total Responses	42	100.0%	28	100.0%	106	100.0%
If you marked 'NO' for Profe	essional Man	ner please	explain:			
	Solotial Wall		OXPIGITI.		3	13.0%
	1		1	16.7%		30.4%
CONTRACTOR IS STREET, THE PROPERTY OF THE PROP				10.770	<u> </u>	00.470
appropriate and the contract of the contract o	1		1	16.7%	2	8.7%
						17.4%
						26.1%
				30.070		4.3%
,					·····	7.070
	a		6	100.0%	23	100.0%
Total Nesponses		100.076		100.070		100.070
2 Good 3 Satisfactory 4 Fair	8	7.5% 0.9%	5	10.2%	11	8.1% 9.9%
5 Poor		0.070		2.070	- 8	
	- 1 - 3	2.8%		2.0%	8	7.2%
Total Responses	3 106	2.8% 100.0%	1 49	2.0% 100.0%	8 4 111	
Total Responses			1		4	7.2% 3.6%
Total Responses Emergency Response:	106	100.0%	1 49	100.0%	4 111	7.2% 3.6% 100.0%
Total Responses Emergency Response: No such experience	106	83.3%	1 49 39	100.0% 79.6%	4 111 82	7.2% 3.6% 100.0% 72.6%
Total Responses Emergency Response: No such experience 1 Excellent	85 5	83.3% 4.9%	1 49 39 1	79.6% 2.0%	4 111 82 9	7.2% 3.6% 100.0% 72.6% 8.0%
Total Responses Emergency Response: No such experience 1 Excellent 2 Good	85 5 4	83.3% 4.9% 3.9%	39 1 39	79.6% 2.0% 6.1%	82 9	7.2% 3.6% 100.0% 72.6% 8.0% 9.7%
Total Responses Emergency Response: No such experience 1 Excellent 2 Good 3 Satisfactory	85 5 4 4	83.3% 4.9% 3.9% 3.9%	39 1 3 4	79.6% 2.0% 6.1% 8.2%	82 9 11 3	7.2% 3.6% 100.0% 72.6% 8.0% 9.7% 2.7%
Total Responses Emergency Response: No such experience 1 Excellent 2 Good	85 5 4	83.3% 4.9% 3.9%	39 1 39	79.6% 2.0% 6.1%	82 9	7.2% 3.6% 100.0% 72.6% 8.0% 9.7%
	Yes No Total Responses If you marked 'NO' for Profe Called Several Times Did Not Fix Problems No Comment No Response Other Rude Service Slow Service Talked Down to Me Total Responses The company's response tire emergencies (e.g. main bre Service Call Response: No such experience 1 Excellent 2 Good 3 Satisfactory	Yes 39 No 3 Total Responses 42 If you marked 'NO' for Professional Manne Called Several Times 1 Did Not Fix Problems 1 No Comment 1 No Response 1 Other 6 Rude Service 1 Slow Service 1 Talked Down to Me 7 Total Responses 9 The company's response time to service emergencies (e.g. main break) is : Service Call Response: No such experience 77 1 Excellent 8 2 Good 9 3 Satisfactory 8	Yes 39 92.9% No 3 7.1% Total Responses 42 100.0% If you marked 'NO' for Professional Manner, please 0.0% Called Several Times 0.0% Did Not Fix Problems 1 11.1% No Comment 0.0% No Response 1 11.1% Other 6 66.7% Rude Service 1 11.1% Slow Service 0.0% 1 Talked Down to Me 0.0% 0.0% Total Responses 9 100.0% The company's response time to service calls requestemergencies (e.g. main break) is: Service Call Response: No such experience 77 72.6% 1 Excellent 8 7.5% 2 Good 9 8.5% 3 Satisfactory 7.5%	Yes 39 92.9% 22 No 3 7.1% 6 Total Responses 42 100.0% 28 If you marked 'NO' for Professional Manner, please explain: Called Several Times 0.0% Did Not Fix Problems 1 11.1% 1 No Comment 0.0% 1 2 2 3 1	Yes 39 92.9% 22 78.6% No 3 7.1% 6 21.4% Total Responses 42 100.0% 28 100.0% If you marked 'NO' for Professional Manner, please explain: Called Several Times 0.0% 0.0% Did Not Fix Problems 1 11.1% 1 16.7% No Comment 0.0% 0.0% 0.0% 0.0% No Response 1 11.1% 1 16.7% Other 6 66.7% 2 33.3% Rude Service 1 11.1% 2 33.3% Slow Service 0.0% 0.0% 0.0% 0.0% Talked Down to Me 0.0% 0.0% 0.0% 0.0% The company's response time to service calls requests (e.g. meter re-resemengencies (e.g. main break) is : 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Yes 39 92.9% 22 78.6% 75 No 3 7.1% 6 21.4% 31 Total Responses 42 100.0% 28 100.0% 106 If you marked 'NO' for Professional Manner, please explain: Called Several Times 0.0% 3 Did Not Fix Problems 1 11.1% 1 16.7% 7 No Comment 0.0%

100.0%

100.0%

246 100.0%

100

256

Total Reponses

Worth	Worthington		a East	Beechcrest		
Count	% Total	Count	% Total	Count	% Total	

Q12. Please express any comments or suggestions about your water service:

1 loade express and estimate			,			
Color	6	3.2%	6	7.7%	6	6.3%
Follow-Up Needed	17	9.2%	2	2.6%		
Hardness	19	10.3%	3	3.8%	15	15.8%
High Rates	13	7.0%	6	7.7%	12	12.6%
Low Pressure	8_	4.3%	5	6.4%	19	20.0%
No Comment	50	27.0%	27	34.6%		
Odor	3	1.6%	4	5.1%	9	9.5%
Other	38	20.5%	12	15.4%	19	20.0%
Particles in Water	2	1.1%	1	1.3%		
Positive comment	6	3.2%	6	7.7%	6	6.3%
Rusty Water	3	1.6%	1	1.3%		
Taste	11	5.9%	4	5.1%		
Won't Drink Water	9	4.9%	1	1.3%	s 9	9.5%
Total Responses	185	100.0%	78	100.0%	95	100.0%

Ohio American Water Company Case No. 07-1112-WS-AIR Revenue Requirements

		ı		Water A			Water C			Wastewater		
		1	art	Staff Lower Bound	Staff Upper Bound	Applicant	Staff Lower Bound	Staff Upper Bound	Applicant	Staff Lower Bound	Staff Upper Bound	Staff Total Company
			(a)			(a)			(a)			
ε	Rate Base (b)	49	48,544,085 \$	46,699,180 \$	46,699,180 \$	7,210,167 \$	6,979,114 \$	6,979,114 \$	6,827,361 \$	\$ 020,227,9	6,722,020 \$	60,400,314
<u>(5</u>	Adjusted Operating Income (c)		1,999,761	3,170,829	3,170,829	(115,806.00)	(235,451.00)	(235,451.00)	(99,264.00)	(177,489.00)	(177,489.00)	2,757,889
ල	Rate of Return Earned (2) / (1)		4.12%	6.79%	%62.9	-1.61%	-3.37%	-3.37%	-1.45%	-2.64%	-2.64%	4.57%
(4)	Rate of Return Recommended (d)		8.27%	7.96%	8.38%	8.27%	7.96%	8:38%	8.27%	7.96%	8.38%	8.17%
<u>(S)</u>	Required Operating Income (1) x (4)	€7	4,014,596 \$	3,717,255 \$	3,913,391 \$	596,281 \$	555,537 \$	584,850 \$	564,623 \$	535,073 \$	563,305 \$	4,934,706
(9)	Income Deficiency (5) - (2)		2,014,835	546,426	742,562	712,087	790,988	820,301	663,887	712,562	740,794	2,176,817
€ 84	Gross Revenue Conversion Factor (e)		1.64825	1.605221	1.605221	1.66039	1.605490	1.605490	1.65391	1.606113	1.606113	
(8)	Revenue Increase Required (6) x (7)		3,320,952	877,134	1,191,976	1,182,342	1,269,923	1,316,985	1,098,009	1,144,455	1,189,799	3,698,760
6)	Revenue Increase Recommended		3,158,322	877,134	1,191,976	1,204,459	1,204,459	1,204,459	1,120,227	1,120,249	1,120,249	3,516,684
(10)	Adjusted Operating Revenue (c)		26,409,693	26,491,709	26,491,709	4,003,529	4,019,542	4,019,542	3,060,190	3,020,970	3,020,970	33,532,221
(11)	Revenue Requirements (9) + (10)	₩	29,568,015 \$	27,368,843 \$	\$ 589'682 \$	\$,207,988	5,224,001 \$	5,224,001 \$	4,180,417 \$	4,141,219 \$	4,141,219 \$	37,048,905
(12)	Increase Over Current Revenue (9) / (10)		11.96%	3.31%	4.50%	30.08%	29.97%	29.97%	36.61%	37.08%	37.08%	10.49%

Applicant's Schedule A-1 Staff's Schedule B-1 Staff's Schedule C-2 Refer to Rate of Return Section Staff's Schedule A-1.1

Case No. 07-1112-WS-AIR Revenue Requirements Calculation of Gross Revenue Conversion Factor

		Water	Water C	Wastewater
(1)	Gross Revenue	100.000000	100.000000	100.000000
(2)	Uncollectibles (1) x (a)	0.904000	0.920600	0.959000
(3)	Net Revenue (1) - (2)	99.096000	99.079400	99.041000
(4)	Ohio Gross Receipts Tax (3) x 4.75%	4.707060	4.706272	4.704448
(5)	income Before Federal Income Taxes (3) - (4)	94.388940	94.373128	94.336552
(6)	Federal Income Taxes (7) x 34%	32.092240	32.086864	32.074428
(7)	Operating Income Percentage (5) - (6)	62.296700	62.286264	62.262124
(8)	Gross Revenue Conversion Factor (1) / (7)	1.605221	1.605490	1.606113

⁽a) Staff's Schedule C-3.13

Revenue Requirements Rate Base Summary As of Date Certain, June 30, 2007 Case No. 07-1112-WS-AIR

			Water A			Water C			Wastewater	er
			Applicant	Staff		Applicant	Staff]	Applicant	Staff
			(a)	(q)		(a)	(c)		(a)	(b)
E	(1) Plant in Service	↔	89,989,294 \$	(d) 668,058,78	₩.	14,872,612 \$	14,490,188 (b)	₩	15,031,273 \$	14,904,397 (b)
(2)	(2) Depreciation Reserve]	(32,250,600)	(31,857,281) (c)		(5,514,966)	(5,245,474) (c)]	(5,636,391)	(5,548,020) (c)
(3)	Net Plant in Service		57,738,694	55,973,618		9,357,646	9,244,714		9,394,882	9,356,377
(4)	Construction Work in Progress			(p)			(p)			(q)
(2)	Working Capital Allowance			(e)			(e)			(e)
(9)	Other Rate Base Items		(9,194,609)	(9,274,438) (f)	I	(2,147,479)	(2,265,600) (f))	(2,567,521)	(2,634,357) (f)
3	(7) Rate Base (3) Thru (6)	↔	48,544,085 \$	46,699,180	sa	7,210,167 \$	6,979,114	↔	6,827,361 \$	6,722,020

Applicant's Schedule B-1

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Staff's Schedule B-2 Staff's Schedule B-3 Staff's Schedule B-4, Subject to 10% Limitation Staff's Schedule B-5 Staff's Schedule B-6

Case No. 07-1112-WS-AIR Revenue Requirements Jurisdictional Plant in Service Summary

		Water A	,	Water C		Wastewater	'n
Major Property Groupings	. [Applicant	Staff	Applicant	Staff	Applicant	Staff
		(a)	(Q)	(e)	(2)	(a)	(q)
Intangible Plant	sa.	433,136 \$	463,000 \$	30,137 \$	30,137 \$	73,016 \$	73,016
Source of Supply Plant		3,480,337	3,194,726	1,418,621	1,401,774		
Collection Plant						4,954,094	4,956,312
Pumping Plant		7,820,589	7,796,345	1,132,832	1,092,934	1,502,798	1,574,499
Water Treatment Plant		14,463,974	14,471,643	3,435,353	3,435,353	7,003,219	6,933,090
Treatment and Disposal Plant							
Transmission & Distribution Plant		56,710,461	56,709,096	7,170,420	7,159,216		
General Plant		7,080,797	3,622,040	1,685,249	1,147,783	1,498,146	1,138,114
Capital Lease							
Corporate Office General Plant			1,574,049		222,991		229,366
Total Water Plant	₩	89,989,294 \$	\$ 6830,830 \$	14,872,612 \$	14,490,188 \$	15,031,273 \$	14,904,397

Applicant's Schedule B-2 Staff's Schedule B-2.1 Staff's Schedule B-2.1b @ **@** ©

Case No. 07-112-WS-AIR
Revenue Requirements
Calculation of Jurisdictional Plant in Service

Water A Staffe	d Jurisdictional A		138,677 100.00% 138,677 161 100.00% 161 48,499 100.00% 48,499 275,663 100.00% 275,663	463,000 463,000		278,968 100.00% 278,968 436,641 100.00% 438,641	1,297,897 100.00% 1,297,897 100.00% 809,516	371,704 100.00% 371,704	3,194,726 3,194,726		49,109 100.00% 49,109 1.394.296 100.00% 1.394.296	100.00%	6,016,651 100.00% 6,016,651 61.205 100.00% 61.205	100.00%	97,7		84,767 100.00% 84,767 2,585,889 100.00% 2,585,889 13 200.00% 14 800.837			100.00%	32,609 100.00% 32,609 3.836.719 100.00% 3.836.719	100.00%	7,843,574 100,00% 7,843,574	100.00%	100.00% 100.00%	56.709.096 \$ 56.709.096
<i>≯</i> <i>t</i>	Adjustments Jurisai (b) (c)		\$ 29,841 \$ 7	29,864		(230,968)	1,2 (54,643) 8		(285,611) 3,1		<u> </u>		(24,244) 6,0		(24,244) 7,7		7 669 235			(2,036)	513 33	m	7,5		2,7	\$ (1.365) \$ 56.7
	Applicant's Adjusted (a)		\$ 108,836 161 48,476 275,663	433,136		<i>509,</i> 936 436,641	1,297,897 864,159	371,704	3,480,337		49,109	263,654	6,040,895 61 295	9,643	7,820,589		84,767 2,585,889	14,463,974		356,607	32,609	36,597,292	7,843,574	1,866,343	2,761,472	\$ 56.710.461
	Acct. No. Description	<u>Intangible Plant:</u>	301 Organization 302 Franchises & Consents 303 Misc. Intangible Plant 304 Comprehensive Planning Study	Total Intangible Plant	Source of Supply Plant:	310 Land & Land Rights 311 Structures & Improvements 312 Collections and Impounding Reservoirs		515 imitration, galleries, and tunnels 316 Supply Mains	Total Source of Supply Plant	Pumping Plant:	320 Land and Land Rights 321 Structures & Improvements		325 Electric Pumping Equipment 326 Dissal Pirmning Equipment			Water Treatment Plant:	330 Land and Land Rights 331 Structures & Improvements 332 Water Treatment Fruitoment	Total Water Treatment Plant	Transmission & Distribution Plant:		342 Distr. Reser, & Standnies		345 Metars		348 Hydrants 349 Other Transmission and Distribution Plant	Total Transmission & Distribution Plant

Case No. 07-1112-WS-AIR Revenue Requirements Calculation of Jurisdictional Plant in Service

			Water A		
***************************************	11 11 11 11 11 11 11 11 11 11 11 11 11		Staffs		Staffs
No. Description	Applicant's Adjusted	Adjustments	Adjusted Jurisdictional	Jurisdictional Allocations	Adjusted Jurisdictional
	(a)	(q)	(3)	(p)	(e)
General Plant:					
389 Land & Land Rights	\$ 35,402	\$ (14,478)	\$ 20,924	100.00% \$	20,924
390 Structures & Improvements	1,163,945	(805,717)	358,228		.,
390 Limited Term Utility Plant	142,375	763	143,138	100.00%	143,138
391.1 Office Furniture	225,702	(196,659)	29,043	100.00%	29,043
391.2 Computer Equipment & Software	1,939,723	(2,035,011)	(95,288)	100.00%	(95,288)
391.3 Office Machines & Equipment	83,908	(52,401)	31,507	100.00%	31,507
392 Transportation Equipment	1,165,485	(66,231)	1,099,254	100.00%	1,099,254
393 Stores Equipment	24,732		24,732	100.00%	24,732
394 Tools, Shop, & Garage Equipment	1,057,417		1,057,417	100.00%	1,057,417
395 Laboratory Equipment	227,143	(3,740)	223,403	100.00%	223,403
396 Power Operated Equipment	501,199		501,199	100.00%	501,199
397 Communication Equipment	332,869	(226,558)	106,311	100.00%	106,311
398 Miscellaneous Equipment	174,813	(53,213)	121,600	100.00%	121,600
399 Other Tangible Plant	6,084	(5,512)	572	100.00%	572
Total General Plant	7,080,797	(3,458,757)	3,622,040		3,622,040
Capital Lease				100.00%	
Corporate Office General Plant					
389 Land & Land Rights		12,247	12,247	74.88%	9.170
390 Structures & Improvements		1.429.422	1.429,422	74.88%	1.070.298
390 Limited Term Utility Plant		ì			
391.1 Office Furniture		45,765	45,765	74.88%	34,267
391.2 Computer Equipment & Software		433,942	433,942	74.88%	324,920
391.3 Office Machines & Equipment		20,151	20,151	74.88%	15,088
392 Transportation Equipment		80,086	80,086	74.88%	59,965
393 Stores Equipment					
524 Tooks, Snop, & Garage Equipment					
396 Power Operated Familyment					
397 Communication Equipment		32,229	32,229	74.88%	24.132
398 Miscellaneous Equipment		48.359	48.359	74 88%	36 209
399 Other Tangible Plant					
Total Corporate Office General Plant		2,102,201	2,102,201		1,574,049
Total Water A	\$ 89,989,294	\$ (1,630,243) \$	88,359,051	•	87,830,899

Applicant's Schedule B-2.1 Staff's Schedule B-2.2a Columns (a) + (b) Refer to Text and Staff's Schedule B-7, Gross Plant Allocation Factor Columns (c) x (d)

SCHEDULE B-2.1b PAGE 1 OF 2

Case No. 07-1112-WS-AIR Revenue Requirements Calculation of Jurisdictional Plant in Service

Case No. 07-1112-WS-AIR Revenue Requirements Calculation of Jurisdictional Plant in Service

				Water C		
Y		:		Staff's		Staff's
2 2		Applicant's Adjusted	Adjustments	Adjusted Jurisdictional	Jurisdictional	Adjusted Jurisdictional
		(a)	(q)	(0)	(q)	(e)
	General Plant:					
389	Land & Land Rights	\$ 600.6	(1.793) \$	7.216	100.00%	7 246
390	Structures & improvements	338,060	(217.095)	120 965	100.00%	980 007
390			(1)	Parada and	100.00%	202.04
391.1	_	65.638	(25.077)	40.561	100.00%	40.564
391.2		284,043	(251,019)	33,024	100.00%	33.024
391.3	_	068,88	(6,488)	82,402	100.00%	82,402
392		286,967	(13,975)	272,992	100.00%	272,992
393	••	1,999		1,999	100.00%	1.999
394	_	180,654	12,389	193,043	100.00%	193,043
395		37,424		37,424	100.00%	37,424
396		8,482		8,482	100.00%	8.482
397	•	51,492	(28,053)	23,439	100.00%	23,439
398		239,712	(5,672)	234,040	100.00%	234,040
399	Other Tangible Plant	92,879	(683)	92,196	100.00%	92,196
	Total General Plant	1,685,249	(537,466)	1,147,783		1,147,783
	Corporate Office General Plant					
389	Land & Land Rights		12.247	12 247	12 38%	4 547
390			4 422 472	(TA CCA 1	7000	51C,1
390			1,46.6,741.6	1,442,414	64.30%	0/1,0/1
391.1	_		40,030	40.030	12.38%	4.958
391.2	2 Computer Equipment & Software		160,458	160.458	12.38%	19.872
391.3	3 Office Machines & Equipment		8,188	8.188	12.38%	1012
392	•		80,086	80,086	12.38%	9.918
393	Stores Equipment					
394						
395	Laboratory Equipment					
396	_					
397	_		30.354	30,354	12.38%	3.759
398	Miscellaneous Equipment		46,697	46,697	12.38%	5.783
399	Other Tangible Plant					
	Total Corporate Office General Plant		1 800 532	1 800 522		P00 000
			Tandagas's	Josephani.		166,333
	Total Citizens Water and Corporate Office	\$ 14,872,612 \$	1,195,117 \$	16,067,729	64	14,490,188

⁹¹

Applicant's Schedule B-2.1 Staff's Schedule B-2.2b Columns (a) + (b) Refer to Text and Staff's Schedule B-7, Gross Plant Allocation Factor Columns (c) x (d)

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Case No. 07-1112-WS-AIR Revenue Requirements <u>Calculation of Jurisdictional Plant in Service</u>

				····	Wastewater		
Acct. <u>No.</u>	Description	-	Applicant's Adjusted (a)	Adjustments (b)	Staff's Adjusted Jurisdictional (c)	Jurisdictional Allocations (d)	Staff's Adjusted Jurisdictional (e)
	Intangible Plant:						
301 302	Organization Franchises & Consents	\$	70,826 \$ 2,190	<u></u> \$	70,826 2,190	100.00% \$ 100.00%	70,826 2,190
	Total Intengible Plant		73,016		73,016		73,016
	Collection Plant;						
310 351 352 352.1 352.2 352.3 353 354 355 356			214,313 3,404,314 37,741 933,402 345,423 18,901	2,218	214,313 3,404,314 37,741 933,402 345,423 21,119	100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	214,313 3,404,314 37,741 933,402 345,423 21,119
	Total Collection Plant	-	4,954,094	2,218	4,956,312	-	4,956,312
	Pumping Plant:			·			
360 361 362 363 364	Land and Land Rights Structures & Improvements Receiving Wells Electric Pumping Equipment Diesel Pumping Equipment		1,4 04, 980 <i>1</i> 8,552		1,404,980 18,552	100.00% 100.00% 100.00% 100.00% 100.00%	1,404,980 18,552
365	Other Pumping Equipment	-	79,266	71,701	150,967	100.00%	150,967
	Total Pumping Plant		1,502,798	71,701	1,574,499		1,574,499
370.2 371 372 373 374 375	Treatment and Disposal Plant: Other Land and Land Rights Structures & Improvements Treatment and Disposal Equipment Plant Sewers Outfall Sewer Lines Other Treatment and Disposal Plant Equipment	-	144,465 66,341 6,792,413	(70,129)	144,465 66,341 6,722,284	100,00% 100,00% 100,00% 100,00% 100,00% 100,00%	144,465 66,341 6,722,284
	Total Treatment and Disposal Plant		7,003,219	(70,129)	6,933,090		6,933,080
	General Plant:						
391.2	Land and land rights Structures & Improvements Office Furniture Office Furniture and Equipment Office machines and equipment Transportation Equipment Stores Equipment Tools, Shop, and Garage Equipment Laboratory Equipment Power Operated Equipment Office Tangible Property		1,238 438,579 15,957 179,717 3,570 24,089 3,788 232,175 44,926 3,726 36,007 513,903 471	(1,238) (135,554) (16,812) (173,311) (4,480) (5,662) 1,413 (19,368) (4,549) (471)	303,025 (855) 6,406 (910) 18,427 3,788 233,588 44,926 3,726 16,639 509,354	100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00% 100.00%	303,025 (855) 6,406 (910) 18,427 3,788 233,588 44,926 3,726 16,639 509,354
	Total General Plant	\$	1,498,146 \$	(360,032) \$	1,138,114	\$	1,138,114
		,		, , -, -, -		•	.,,.,

Case No. 07-1112-WS-AIR Revenue Requirements <u>Calculation of Jurisdictionel Plant in Service</u>

		_					Wastewater		
Acct. <u>No.</u>	Description	-	Applicant's Adjusted (a)		Adjustments (b)		Staff's Adjusted Jurisdictional (c)	Jurisdictional Allocations (d)	Staff's Adjusted Jurisdictional (e)
	Corporate Office General Plant						.,	•	
389	Land & Land Rights	\$		\$	12,247	\$	12,247	12.74% \$	1,560
390	Structures & Improvements			•	1,422,472		1,422,472	12.74%	181,206
390	Limited Term Utility Plant						• •		
391,1	Office Furniture				40,030		40,030	12.74%	5,099
391.2	Computer Equipment & Software				160,458		160,458	12.74%	20,440
391,3	Office Machines & Equipment				8,188		8,186	12.74%	1,043
392	Transportation Equipment				80,086		80,086	12.74%	10,202
393	Stores Equipment								
394	Tools,Shop,& Garage Equipment								
395	Laboratory Equipment								
396	Power Operated Equipment								
397	Communication Equipment				30,354		30,354	12.74%	3,867
398	Miscellaneous Equipment				46,697		46,697	12.74%	5,949
399	Other Tangible Plant	_						-	
	Total Corporate Office General Plant				1,800,532		1,800,532		229,366
	Total Wastewater and Corporate Office	\$_	15,031,273	\$	1,444,290	\$_	16,475,563	\$_	14,904,397

⁽a) (b) (c) (d) (e)

Applicant's Schedule B-2.1 Staff's Schedule B-2.2c Columns (a) + (b) Refer to Text and Staff's Schedule B-7, Gross Plant Allocation Factor Columns (c) x (d)

Case No. 07-1112-WS-AIR Revenue Requirements Summary of Staff's Adjustments to Plant In Service

				Water A			 _	
Acct.	Description	Structures & improvements	Land & Land Rights	Lake White	Plant Evolusions		porate Office it Exclusions	Total Adjustments
140.	<u> </u>	(a)	(b)	(c)	(d)	(B	(f)	(g)
	Intangible Plant:							
	Organization \$;	,	\$ 29,841 \$		\$	\$ \$	29,841
303	Franchises & Consents Misc. Intangible Plant Comprehensive Planning Study			23		<u></u>	 	23
	Total Intangible Plant			29,864				29,864
	Source of Supply Plant:							
311 312	Land & Land Rights Structures & Improvements Collecting and Impounding Reservoirs		(39,420)	(5,910)	(185,638)			(230,968)
315	Lake, River & Other Intakes Wells & Springs Infiltration, galleries, and tunnels Supply Mains			(54,643)			 	(54,643)
	Total Source of Supply Plant		(39,420)	(60,553)	(185,638)			(285,611)
	Pumping Plant:							
321 323 325 326 327	Land and Land Rights Structures & Improvements Other Power Prod. Equipment Electric Pumping Equipment Diesel Pumping Equipment Hydraulic pumping equipment Other Pumping Equipment			5,271	(29,515)			(24,244)
	Total Pumping Plant			5,271	(29,515)			(24,244)
	Water Treatment Plant:							
330 331	Land and Land Rights Structures & Improvements							
	Water Treatment Equipment	 		7,669			 	7,669
	Total Water Treatment Plant			7,669				7,669
	Transmission & Distribution Plant:							
341 342	Land & Land Rights Structures & Improvements Distr. Reser. & Standpipes Trans. and Distr. Mains			(2,036) 513 54				(2,036) 513 54
345 346 347	Trans. and Distr, Mains Services Meters Meter Installations Hydrants			104				104
	Other Transmission and Distribution Pl	ant					 	
	Total Transmission & Distribution PI\$	\$		(1,365) \$		\$	\$ \$	(1,365)

Case No. 07-1112-WS-AIR Revenue Requirements <u>Summary of Staff's Adjustments to Plant in Service</u> Water A

		***						• • • • • • • • • • • • • • • • • • • •			
Acct.	Description		Structures & Improvements	Land & Land Rights	I 	Lake White			lassification8	orporate Office ant Exclusions	Total Adjustments
	General Plant:		(a)	(b)		(c)	(d)		(e)	(1)	(g)
389 390 390	Structures & Improvements	\$	\$ (3,590)		\$	\$ 763	i	\$	(14,478) \$ (802,127)	\$	(14,478) (805,717) 7 6 3
391.1 391.2	Office Furniture Computer Equipment & Software Office Machines & Equipment						(7,738)) !	(196,659) (2,027,273) (52,401) (66,231)		(196,659) (2,035,011) (52,401) (66,231)
394 395 396	Tools Shop & Garage Equipment Laboratory Equipment						(3,740)				(3,740)
397 398 399	Communication Equipment Miscellaneous Equipment Other Tangible Plant								(226,558) (53,213) (5,512)		(226,558) (53,213) (5,512)
	Total General Plant Capital Lease		(3,590)			763	(11,478)	+ ((3,444,452)		(3,458,757)
	Corporate Office General Plant										
389 390	Land & Land Rights Structures & Improvements								17,507 2,100,100	(5,260) (670,678)	12,247 1,429,422
391.3	Computer Equipment & Software Office Machines & Equipment								208,427 569,169 51,188	(162,662) (135,227) (31,037)	45,765 433,942 20,151
392 393 394 395									80,086		80,086
396 397 398 399	Power Operated Equipment Communication Equipment Miscellaneous Equipment Other Tangible Plant							_	266,555 64,640 6,665	(234,326) (16,281) (6,665)	32,229 48,359
	Total Corporate Office General Plan	t							3,364,337	(1,262,136)	2,102,201
	Total Water A	\$	(3,590) \$	(39,420)	\$ _	(18,351) \$	(226,631)	\$	(80,115) \$	(1,262,136) \$	(1,630,243)

⁽a) Staff's Schedule B-2.2a1
(b) Staff's Schedule B-2.2a2
(c) Staff's Schedule B-2.2a3
(d) Staff's Schedule B-2.2a4
(e) Staff's Schedule B-2.2a5
(f) Staff's Schedule B-2.2a6
(g) Columns (a) thru (f)

Case No. 07-1112-WS-AIR Revenue Requirements Account 390 - Structures and Improvements Plant Adjustments

		w	ater A
			(a)
(1)	Exclusion of Counter and Wall Panels	\$	(3,590)

(a) Refer to Text

Case No. 07-1112-WS-AIR Revenue Requirements Account 310 - Land and Land Rights Plant Adjustment

			Water A
			(a)
(1)	Exclusion of Land at Marion District	\$	(46,433)
(2)	Inclusion of 6.4 Acres of Land for Wellhead Protection around Well #32	_	7,013
(3)	Total (1) + (2)	\$	(39,420)

(a) Refer to Text

Case No. 07-1112-WS-AIR **Revenue Requirements Lake White Plant Adjustments**

		Water A					
Acct	. Describtion No.	_	Staff's		Staff's		Staff's Plant
		Rec	lassificat	ion A	djustments		Adjustments
		_	(a)		(b)		(c)
301	Organization	\$	10,162	\$	19,679	\$	29,841
303	Miscellaneous Intangible Plant		23				23
310	Land & Land Rights		(5,910)				(5,910)
314	Wells & Springs		(54,643)				(54,643)
325	Electric Pumping Equipment		38,170		(32,899)		5,271
332	Water Treatment Equipment		10,818		(3,149)		7,669
340	Land & Land Rights				(2,036)		(2,036)
342	Distribution Reservoirs & Standpipes		513				513
343	Transmission and Distribution Mains				54		54
346	Meters		104				104
390	Limited Term Utility Plant		763				763
	Total Adjustment	\$		\$	(18,351)	\$	(18,351)

⁽a) Refer to Text

⁽b) Refer to Text (c) columns (a) + (b)

Case No. 07-1112-WS-AIR Revenue Requirements Plant Exclusions Adjustment

		 Water A
(1)	Exclusion of 30 Acres of Land at Mansfield - Account 310 (a)	
(2)	Exclusion of Electric Pumping Equipment at Lake White - Account 325 (a)	\$ (185,638)
ν-,	(-)	(29,515)
(3)	Exclusion of Two Deskpro 4000 Computers at Ashtabula - Account 391.2 (a)	
(4)	Exclusion of Ph Meter at Marion - Account 395 (a)	(7,738)
(5)	Exclusion of Well 15 Rehab at Marion - Account 325 (b)	(3,740)
(•)	more and the training of the same (a)	(25,145)
(6)	Total Plant Adjustments (1) Thru (6)	
		\$ (251,776)

⁽a) Refer to Text (b) Staff's Plant Inspection Workpapers

Case No. 07-1112-WS-AIR Revenue Requirements Corporate Office Reclassification Plant Adjustment

	-	_	Water A
		_	(a)
Lan	d and Land Rights		
389 Stru	ictures & Improvements	\$	(14,478
390 Offi	ce Furniture & Equipment		(802,127
391.1 Con	nputer Equipment & Software		(196,659
391.2 Offi	ce Machines & Equipment		(2,027,273
391.3 Tran	nsportation Equipment		(52,401
392 Con	nmunication Equipment		(66,231
397 Mis	cellaneous Equipment		(226,558
398 Oth	er Tangibie Plant		(53,213
399			(5,512
Tota	at		
			(3,444,452
			(b)
Lan	d and Land Rights		
389 Stru	ctures & Improvements		17,507
390 Offic	ce Furniture & Equipment		2,100,100
391.1 Com	nputer Equipment & Software		208,427
391.2 Offic	ce Machines & Equipment		569,169
8 91. 3 Tran	nsportation Equipment		51,188
392 Con	nmunication Equipment		80,086
397 Misc	cellaneous Equipment		266,555
398 Othe	er Tangible Plant		64,640
399			6,665
Tota	ıl	-	
			3,364,337
Tota	l Corporate Office Reclassification		
		\$	(80,115)

⁽a) Staff's Data Request 63(b) Derived from Staff's Data Request 11

Case No. 07-1112-WS-AIR Revenue Requirements **Exclusion of Corporate Office Plant Adjustment**

Acct. Description No.		
		Water A
	_	(a)
389 Land & Land Rights		
390 Structure & Improvements	\$	(5,260)
391.1 Office Furniture & Equipment		(670,678)
391,2 Computer Equipment & Software		(162,662)
391.3 Office Machines & Equipment		(135,227)
397 Communication Equipment		(31,037)
398 Miscellaneous Equipment (b)		(234,326)
399 Other Tangible Plant		(16,281)
	_	(6,665)
	\$ _	(1,262,136)

⁽a) Staff's Workpaper WPB-2.2a6 (b) Derived From Staff's Data Request 11

Case No. 07-1112-WS-AIR Revenue Requirements Summary of Staff's Adjustments to Plant In Service

					W	/ater C	
Acct. No.	Description		02 Plant In ce Adjustment (a)	Brimfield Exclusion (b)	Corporate Office Reclassification (c)	Corporate Office Plant Exclusion (d)	Total Adjustments (e)
	Intangible Plant:						
303	Franchises & Consents	\$	\$		\$	\$	-
	Total Intangible Plant						
	Source of Supply Plant:						
311 312	Land & Land Rights Structures & Improvements Collecting & Impounding Res. Lake, River & Other Intakes			(705)			(705)
314 315	Wells & Springs Infiltration, Galleries, & Tunnels Supply Mains		872	(16,142)			(15,270)
	Total Source of Supply Plant		872	(16,847)			(15,975)
	Pumping Plant:						
	Structures & Improvements		3,378	(788) (42,488)			(788) (39,110)
	Other Pumping Equipment						
	Total Pumping Plant		3,378	(43,276)			(39,898)
	Water Treatment Plant:						
331	Land and Land Rights Structures & Improvements Water Treatment Equipment	p-41					
	Total Water Treatment Plant						
	Transmission & Distribution Plant:						
341 342 343 345 346 347 348	Hydrants		(23,645) 12,441				(23,645) 12,441
349	Other Transmission and Distribution Plant	_					
	Total Transmission & Distribution Plant	\$	(11,204) \$		\$ \$	\$	(11,204)

Case No. 07-1112-WS-AIR Revenue Requirements Summary of Staff's Adjustments to Plant In Service

					V	Vater C	
Acct.			2 Plant In	Brimfield		Corporate Office	Total
No.	Description	Servic	e Adjustment_	Exclusion	Reclassification	Plant Exclusion	Adjustments
			(a)	(b)	(c)	(d)	(e)
	General Plant:						
389	Land & Land Rights	\$	\$		\$	(1,793) \$	(1,793)
390	Structures & Improvements					(217,095)	(217,095)
	Limited Term Utility Plant		(797)			(24.250)	/2E 077\
	Office Furniture & Equipment Computer Equipment & Software		(727)			(24,350) (251,019)	(25,077) (251, 01 9)
	Other Office Equipment					(6,488)	(6,488)
	Transportation Equipment		(5,774)			(8,201)	(13,975)
393	Stores Equipment		(0,,,,,			(-,-+ -,	(10,0.0)
394	Tools,Shop,& Garage Equipment		12,389				12,389
395	Laboratory Equipment						•
396	Power Operated Equipment						
397	Communication Equipment					(28,053)	(28,053)
398	Miscellaneous Equipment		917			(6,589)	(5,672)
399	Other Tangible Plant		 -			(683)	(683)
	Total General Plant		6,805			(544,271)	(537,466)
	Corporate Office General Plant						
389	Land & Land Rights				12.247		12,247
390	Structures & Improvements				1,422,472		1,422,472
390	Limited Term Utility Plant						
391.1	Office Furniture & Equipment				40,030		40,030
391.2	Computer Equipment & Software				160,458		160,458
	Office Machines & Equipment				8,188		8,188
	Transportation Equipment				80,086		80,086
393	Stores Equipment						
394	Tools,Shop,& Garage Equipment						
395	Laboratory Equipment						
396	Power Operated Equipment Communication Equipment				30,354		30,354
397 398	Miscellaneous Equipment				46,697		46,697
399	Other Tangible Plant				40,031		
	Total Corporate Office General Plant				1,800,532		1,800,532
	Total Citizens Water and Corporate Office	\$	(149) \$	(60,123)	\$ 1,800,532 \$	(544,271) \$	1,195,989

⁽a) Staff's Schedule B-2.2b1
(b) Staff's Schedule B-2.2b2
(c) Staff's Schedule B-2.2b3
(d) Staff's Schedule B-2.2b4
(e) Columns (a) thru (d)

Case No. 07-1112-WS-AIR Revenue Requirements 2002 Plant In Service Adjustment

Acct.	m	141 (0	
No.	Description	Water C	<u>:</u>
		(a)	
314	Wells & Springs	\$	872
325	Electric Pumping Equipment	3,	,378
345	Services	(23,	,645)
346	Meters	12,	441
391	Office Furniture		(727)
392	Transportation Equipment	(5,	774)
394	Tools, Shop, & Garage Equipment	12,	389
398	Miscellaneous Equipment	 -	917
	Total Water 2002 Adjustment	\$	(149)

⁽a) Prior Staff's Adjustment Case No. 03-2390-WS-AIR

Case No. 07-1112-WS-AIR Revenue Requirements Brimfield Plant In Service Exclusion Adjustment

Acct. No.	-	Water C <u>Brimfield Plant</u> (a)	_
	Source of Supply Plant:		
310		\$	
311	Structures & Improvements	(705)
314	Wells & Springs	(16,142)
316	Supply Mains		_
	Total Source of Supply Plant	\$ (16,847)
	Pumping Plant:		
302	Land & Land Rights	\$	
321	Structures & Improvements	(788)
325	Electric Pumping Equipment	(42,488	<u>}</u>
	Total Pumping Plant	(43,276)
	Total Brimfield Plant Exclusion	\$(60,123)

⁽a) Staff's Workpaper WPB-2.2b2

Case No. 07-1112-WS-AIR Revenue Requirements Corporate Office Reclassification Plant Adjustments

Acct.			
No.	Description		Water C
	, 	_	(a)
389	Land & Land Rights	\$	12,247
390	Structures & Improvements		1,422,472
391.1	Office Furniture & Equipment		40,030
391.2	Computer Equipment & Software		160,458
391.3	Office Machines & Equipment		B,188
392	Transportation Equipment		80,086
397	Communication Equipment		30,354
398	Miscellaneous Equipment	_	46,697
	Total Plant Adjustment	\$	1,800,532

(a) Staff's Workpaper WPB-2.2b3

Case No. 07-1112-WS-AIR Revenue Requirements Corporate Office Plant Exclusion Adjustment

Acct.			191 4 6
No.	Description	-	Water C (a)
			, -,
389	Land & Land Rights	\$	(1,793)
390	Structures & Improvements		(217,095)
391.1	Office Furniture & Equipment		(24,350)
391.2	Computer Equipment & Software		(251,019)
391.3	Office Machines & Equipment		(6,488)
392	Transportation Equipment		(8,201)
397	Communication Equipment		(28,053)
398	Miscellaneous Equipment		(6,589)
399	Other Tangible Plant	_	(683)
	Total Plant Adjustment	\$	(544,271)

(a) Staff's Data Request 63

Case No. 07-1112-WS-AIR Revenue Requirements Summary of Staff's Adjustments to Plant In Service

			Wastewater_		
Acct.		2002 Plant in	Corporate Office	General Office	Total
No.	Description	Service Adjustment		Plant Exclusion	Adjustments
	Intangible Plant:	(a)	(p)	(c)	(d)
301	Organization	\$	\$	\$	\$
302	Franchises & Consents	· · · · · · · · · · · · · · · · · · ·	·		
	Total Intangible Plant				
	Collection Plant:				
310	Land and Land Rights				
351	Structures & Improvements				
352	Collection Sewers				
	Collection Sewers-Force Collection Sewers-Gravity				
	Special Collecting Structures				
353	Services to Customers				
354	Flow Measuring Devices	2,218			2,21
355	Flow Measuring Installations	2,210			+,+.
356	Other Collection Plant Facilities	···			
	Total Collection Plant	2,218			2,21
	Pumping Plant:				
360	Land and Land Rights				
361	Structures & Improvements				
362	Receiving Wells				
363	Electric Pumping Equipment				
364 365	Diesel Pumping Equipment Other Pumping Equipment	71,701			71,70°
					
	Total Pumping Plant	71,701			71,70
	<u>Treatment and Disposal Plant:</u>				
	Other Land and Land Rights				
371	Structures & Improvements	(70.400)			(50.40)
	Treatment and Disposal Equipment	(70,129)			(70,129
373	Plant Sewers Outfall Sewer Lines				
74 75	Other Treatment and Disposal Plant Equipment				
	Total Treatment and Disposal Plant	(70,129)			(70,129
	General Plant:				
389	Land and land rights			(1,238)	(1,23)
390	Structures & Improvements	14,335		(149,889)	(135,554
	Office Furniture & Equipment			(16,812)	(16,81)
	Computer Equipment & Software			(173,311)	(173,311
	Office Machines and Equipment			(4,480)	(4,48)
92 93	Transportation Equipment			(5,662)	{5,663
93 94	Stores Equipment Tools, Shop, and Garage Equipment	1,413			1,41
94 95	Laboratory Equipment	1,413			7,43.
96	Power Operated Equipment				
97	Communication Equipment			(19,368)	(19,36)
98	Miscellaneous equipment			(4,549)	(4,549
	Other Tangible Property			(471)	(471
199					

Case No. 07-1112-WS-AIR Revenue Requirements Summary of Staff's Adjustments to Plant In Service

				Wastewater		
Acct.		2002 F	lant in	Corporate Office	General Office	Total
No.	Description	Service A	djustment	Reclassification	Plant Exclusion	Adjustments
		(a)	(b)	(c)	(d)
	Corporate Office General Plant					
389	Land & Land Rights	\$	\$	12,247	\$	\$ 12,247
390	Structures & Improvements			1,422,472		1,422,472
391.1	Office Furniture			40,030		40,030
391.2	Computer Equipment & Software			160,458		160,458
391.3	Office Machines & Equipment			8,188		8,188
392	Transportation Equipment			80,086		80,086
393	Stores Equipment					
394	Tools,Shop,& Garage Equipment					
395	Laboratory Equipment					
396	Power Operated Equipment					
397	Communication Equipment			30,354		30,354
398	Miscellaneous Equipment			46,697		46,697
399	Other Tangible Plant					
	Total Corporate Office General Plant			1,800,532		1,800,532
	Total Citizens Wastewater and Corporate Office	\$	19,538 \$	1,800,532	\$ (375,780)	\$1,444,290

⁽a) Staff's Schedule B-2.2c1 (b) Staff's Schedule B-2.2c2 (c) Staff's Schedule B-2.2c3 (d) Columns (a) thru (c)

Case No. 07-1112-WS-AIR Revenue Requirements 2002 Plant In Service Adjustment

Acct.	•		
No.	Description	Wastewate	er
		(a)	
354	Flow Measuring Devices	\$	2,218
365	Other Pumping Equipment		71,701
372	Treatment & Disposal Equipment		(70,129)
390	Structures & Improvements		14,335
394	Tools, Shop, & Garage Equipment		1,413
	Total Plant Adjustment	\$	19,538

⁽a) Prior Staff's Adjustment; Case No. 03-2390-WS-AIR

Case No. 07-1112-WS-AIR Revenue Requirements Corporate Office Reclassification Plant Adjustments

Acct.		
No.	Description	Wastewater
		(a)
389	Land & Land Rights	\$ 12,247
390	Structures & Improvements	1,422,472
391.1	Office Furniture & Equipment	40,030
391.2	Computer Equipment & Software	160,458
391.3	Office Machines & Equipment	8,188
392	Transportation Equipment	80,086
397	Communication Equipment	30,354
398	Miscellaneous Equipment	46,697
	Total Plant Adjustment	\$1,800,532

(a) Staff's Workpaper WPB-2.2c2

Case No. 07-1112-WS-AIR Revenue Requirements Corporate Office Plant Exclusion Adjustment

Acct.		
No.	Description	Wastewater
		(a)
389	Land & Land Rights	\$ (1,238)
390	Structures & Improvements	(149,889)
391.1	Office Furniture & Equipment	(16,812)
391.2	Computer Equipment & Software	(173,311)
391.3	Office Machines & Equipment	(4,480)
392	Transportation Equipment	(5,662)
397	Communication Equipment	(19,368)
398	Miscellaneous Equipment	(4,549)
399	Other Tangible Plant	(471)
	Total Plant Adjustment	\$(375,780)

(a) Staff's Data Request 63

		_			Water A		
Acct.	Description		Applicant's Unadjusted	Adjustments	Staff's Adjusted Jurisdictional	JurisdictionalAllocations	Staff's Adjusted Jurisdictional
			(a)	(b)	(c)	(d)	(e)
	Intangible Plant:						
301	Organization	\$	\$	\$		100.00% \$	
302	Franchises & Consents					100.00%	
303	Misc. Intangible Plant					100.00%	
304	Comprehensive Planning Study	-	499,900	1,421	501,321	100.00% _	501,321
	Total Intangible Plant		499,900	1,421	501,321		501,321
	Source of Supply Plant:						
310	Land & Land Rights		(7,222)	7,222		100.00%	
311	Structures & Improvements		42,928		42,928	100.00%	42,928
312	Collecting & Impounding Res.		16	(16)		100.00%	
313	Lake, River & Other Intakes		77,740	45	77,785	100.00%	77,785
314	Wells & Springs		321,044	(2,230)	318,814	100.00%	318,814
315	Infiltration, Galleries, and Tunnels		29	(29)		100.00%	
316	Supply Mains	_	109,134		109,134	100.00%	109,134
	Total Source of Supply Plant		543,669	4,992	548,661		548,661
	Pumping Plant:						
320	Land and Land Rights						
321	Structures & Improvements		676,066		676,066	100.00%	676,066
323	Olher Power Frod, Equipment		125,692		125,692	100.00%	125,692
325	Electric Pumping Equipment		2,053,790	(60,231)	1,993,559	100.00%	1,993,559
326	Diesel Pumping Equipment		40 642	(,	40.642	100.00%	40,642
327	Hydraulic pumping equipment		452		452	100.0076	.0,0
328	Other Pumping Equipment		514		514	100.00%	514
	Total Pumping Plant		2,897,156	(60,231)	2,836,925		2,836,473
	Water Treatment Plant:						
330	Land and Land Rights					100.00%	
331	Structures & Improvements		996,977		996,977	100.00%	996.977
332	Water Treatment Equipment		3,883,271	(2,605)	3,880,666	100.00%	3,880,666
002	Total Water Treatment Plant	_	4,880,248	(2,605)	4,877,643	-	4,877,643
	Transmission & Distribution Plant:		1,000,210	(=,,~~)	4,011,070		1,0,7,10,10
340	Land & Land Rights		(1,228)	1,228		100.00%	
341	Structures & Improvements		2,967		2,967	100.00%	2,967
342	Distr. Reser. & Standplpes		1,385,723	20	1,385,743	100.00%	1,385,743
343	Trans. and Distr. Mains		7,712,301		7,712,301	100.00%	7,712,301
345	Services		7,916,523		7,916,523	100.00%	7,916,523
346	Meters		1,039,080	7	1,039,087	100.00%	1,039,087
347	Meter Installations		659,623		659,623	100.00%	659,623
348	Hydrants		880,609		880,609	100.00%	880,609
349	Other Transmission and Distribution Plant	_	84	(84)	<u> </u>	100.00%	
	Total Transmission & Distribution Plant	\$	19,595,682 \$	1,171 \$	19,596,853	\$	19,596,853

					Water A		
Acct.	Description	Applican Unadjust		Adjustments	Staff's Adjusted Jurisdictional	Jurisdictional Allocations	Staff's Adjusted Jurisdictional
		(a)		(b)	(c)	(d)	(e)
	General Plant:						
389	Land & Land Rights	\$	\$	\$		100.00% \$	
390	Structures & Improvements	570,		(614,727)	(44,707)	f	(44,707)
390	Limited Term Utility Plant		160		99,160	100.00%	99,160
	Office Furniture	125,		(111,021)	14,337	100.00%	14,337
	Computer Equipment & Software	729,		(524,595)	205,279	100.00%	205,279
391.3		121,		(24,162)	96,897	100.00%	96,897
392	Transportation Equipment	1,451,		(93,442)	1,357,798	100.00%	1,357,798
393	Stores Equipment		248		11,248	100.00%	11,248
394	Tools,Shop,& Garage Equipment	434,			434,861	100.00%	434,861
395	Laboratory Equipment		488	(3,740)	76,748	100.00%	76,748
396	Power Operated Equipment	169,	418		169,418	100.00%	169,418
397	Continunication Equipment	321,	593	(141,566)	180,027	100.00%	180,027
398	Miscellaneous Equipment		555	(18,351)	39,204	100.00%	39,204
399	Other Tangible Plant	3,	945	(3,588)	357	100.00%	357_
	Total General Plant	4,175,	819	(1,535,192)	2,640,627		2,640,627
	Capital Lease						
	Corporate Office General Plant						
389	Land & Land Rights						
390 390	Structures & Improvements Limited Term Utility Plant			502,008	502,008	74.69%	374,966
	Office Furniture			43,623	43,623	74.69%	32,584
	Computer Equipment & Software			43,623 428,574	428,574	74.69%	320,116
				11,877	11,877	74.69%	8,871
391.3 392	Transportation Equipment			106,841	106,841	74.69%	79,803
393	Stores Equipment			100,04	100,041	74.0970	19,003
394	Tools,Shop,& Garage Equipment						
	Laboratory Equipment						
395	Power Operated Equipment						
396	Communication Equipment			30,522	30,522	74.69%	22,798
397	Miscellaneous Equipment			30,322 22,177	22,177	74.69%	16,565
398 399	Miscellaneous Equipment Other Tangible Plant	 			22,111	74.03%	10,303
	Total Corporate Office General Plant			1,145,622	1,145,622		855,703
	Total Water A Plant	\$32,592,	<u>474</u> \$_	(444,821) \$	32,147,653	\$_	31,857,281

⁽a) (b) (c) (d) (e)

Applicant's Schedule B-3 and B-3.2 Staff's Schedule B-3.1a Columns (a) + (b) Staff's Schedule B-7, Depreciation Reserve Allocation Factor Columns (c) x (d)

		_			Water C		
Acct. No.	Description		Applicant's Unadjusted	Adjustments	Staff's Adjusted Jurisdictional	Jurisdictional Allocations	Staff's Adjusted Jurisdictional
.,,,,			(a)	(b)	(c)	(d)	(e)
	Intangible Plant:						
301	Organization	\$	\$	\$		100.00% \$	
302	Franchises & Consents					100.00%	
303	Misc. Intangible Plant					100.00%	
303.9	9 Comprehensive Planning Study		1,421	(1,421)		100.00%	
	Total Intangible Plant		1,421	(1,421)			
	Source of Supply Plant:						
310	Land & Land Rights					100.00%	
311	Structures & Improvements		257,917	(17,233)	240,684	100.00%	240,684
312	Collecting & Impounding Res.		302	16	318	100.00%	318
313	Lake, River & Other Intakes		45	(45)		100.00%	
314	Wells & Springs		132,377	(26,600)	105,777	100.00%	105,777
315 316	Infiltration, Galleries, and Tunnels Supply Mains	_	241		270	100.00%	270
	Total Source of Supply Plant		390,882	(43,633)	347,049		347,049
	Pumping Plant:						
320	Land and Land Rights					100.00%	
321	Structures & Improvements		99,283	(9,605)	89,678	100.00%	89,678
323	Other Power Prod, Equipment		(1,431)		(1,431)	100.00%	(1,431
325	Electric Pumping Equipment		387,326	(75 ,565)	311,761	100.00%	311,76
326	Diesel Pumping Equipment						
328	Other Pumping Equipment	_				-	_
	Total Pumping Plant		485,178	(85,170)	400,008		400,00
	Water Treatment Plant:						
330	Land and Land Rights						
331	Structures & Improvements		200,548		200,548	100.00%	200,548
332	Water Treatment Equipment	_	362,591		362,591	100.00%	362,591
	Total Water Treatment Plant		563,139		583,139		563,139
	Transmission & Distribution Plant:						
340	Land & Land Rights					100.00%	
341	Structures & Improvements						
342	Distr. Reser. & Standpipes		587,531		587,531	100.00%	587,531
343	Trans. and Distr. Mains		1,199,449	(20,495)	1,178,954	100.00%	1,178,954
345	Services		473,011	(13,014)	459,997	100.00%	459,997
346	Meters		293,569	1,305	294,874	100.00%	294,874
347	Meter Installations		48		48	100.00%	48
348	Hydrants		136,231		136,231	100.00%	136,231
349	Other Transmission and Distribution Plant		585	<u>B4</u>	669	100.00%	669
	Total Transmission & Distribution Plant	\$	2,690,424 \$	(32,120) \$	2,658,304	\$	2,658,304

				Water C		
Acct.	Description	Applicant's Unadjusted	Adjustments	Staff's Adjusted Jurisdictional	Jurisdictional Allocations	Staff's Adjusted Jurisdictional
NO.	Bescription	(a)	(b)	(c)	(d)	(e)
	General Plant:					
389	Land & Land Rights	\$	\$ S	;	100.00% \$	
390	Structures & Improvements	156,713	(73,900)	82,813	100.00%	82,813
390	Limited Term Utility Plant					
	Office Furniture	24,626	(15,397)	9,229	100.00%	9,229
	Computer Equipment & Software	412,607	(218,007)	194,600	100.00%	194,600
	Office Machines & Equipment	7,098	(9,871)	(2,773)	100.00%	(2,773)
392	Transportation Equipment	575,348	(11,959)	563,389	100.00%	563,389
393	Stores Equipment	1,365	2.040	1,365	100.00%	1,365
394	Tools,Shop,& Garage Equipment	42,446	3,618	46,064	100.00%	46,064
395	Laboratory Equipment	31,054		31,054	100.00%	31,054
396	Power Operated Equipment	(5,398) 6,793	(18,236)	(5,398)	100.00% 100.00%	(5,398)
397	Communication Equipment Miscellaneous Equipment	20,825	(5,534)	(11,443) 15,291	100.00%	(11,443) 1 5,2 91
398 399	Other Tangible Plant	212,228	(341)	211,887	100.00%	211,887
299	Other rangible Flant	212,220		211,001	100.0076	211,007
	Total General Plant	1,485,705	(349,627)	1,136,078		1,136,078
	Corporate Office General Plant					
389	Land & Land Rights					
390	Structures & Improvements		502,008	502,008	12.30%	61,740
390	Limited Term Utility Plant					
391.1	Office Furniture		43,623	43,623	12.30%	5,365
391.2	Computer Equipment & Software		428,574	428,574	12.30%	52,709
391.3	Office Machines & Equipment		11,877	11,877	12.30%	1,461
392	Transportation Equipment		106,841	106,841	12.30%	13,140
393	Stores Equipment					
394	Tools, Shop, & Garage Equipment					
395	Laboratory Equipment					
396	Power Operated Equipment					
397	Communication Equipment		30,522	30,522	12.30%	3,754
398	Miscellaneous Equipment		22,177	22,177	12.30%	2,727
399	Other Tangible Plant				-	
	Total Corporate Office General Plant		1,145,622	1,145,622		140,896
	Various Accounts				100.00%	
	Total Water C Plant	\$ 5,616,749	633,451_\$	6,250,200	\$_	5,245,474

(a) (b) (c) (d) (e)

Applicant's Schedule B-3 and B-3.2 Staff's Schedule B-3.1b Columns (a) + (b) Staff's Schedule B-7, Depreciation Reserve Allocation Factor Columns (c) x (d)

					Wastewater	<u></u>	
Acct.	- 1.0		Applicant's		Staff's Adjusted	Jurisdictional	Staff's Adjusted
No.	Description		Unadjusted (a)	Adjustments (b)	Jurisdictional (c)	Allocations (d)	Jurisdictional (e)
	Intangible Plant:		(4)	(-7	(-)	(w)	(~)
							
301 302	Organization Franchises & Consents	\$	 \$		\$ 	100.00% \$ 100.00%	
	Total Intangible Plant						
	Collection Plant:						
351	Structures & Improvements		130,428		130,428	100.00%	130,428
352	Collection Sewers		1,937,062		1,937,062	100.00%	1,937,062
352.1	Collection Sewers-Force		6,776		6,776	100.00%	6,776
	Collection Sewers-Gravity						
	Special Collecting Structures		723		723	100.00%	723
353	Services to Customers		220,912		220,912	100.00%	220,912
354	Flow Measuring Devices			868	868	100.00%	868
355 356	Flow Measuring Installations Other Collection Plant Facilities	_				_	
	Total Collection Plant		2,295,901	868	2,296,769		2,296,769
	Pumping Plant:						
330	Land and Land Rights						
361	Structures & Improvements		107,874		107,874	100.00%	107,874
362	Receiving Wells						
363	Electric Pumping Equipment		945		945	100.00%	945
364	Diesel Pumping Equipment						
365	Other Pumping Equipment		26,877	53,335	80,212	100.00%	80,212
	Total Pumping Plant		135,696	53,335	189,031		189,031
	Treatment and Disposal Plant:						
370.2	Other Land and Land Rights					100.00%	
371	Structures & Improvements		384,795		384,795	100.00%	384,795
372	Treatment and Disposal Equipment		2,519,926	(303,093)	2,216,833	100.00%	2,216,833
373	Plant Sewers						
374	Outfall Sewer Lines						
375	Other Treatment and Disposal Plant Equipment					-	
	Total Treatment and Disposal Plant		2,904,721	(303,093)	2,601,628		2,601,628
	General Plant:						
3 90	Structures & Improvements		105,182	(49,250)	55,932	100.00%	55,932
391.1	Office Furniture & Equipment		10,497	(9,917)	580	100.00%	580
	Computer Equipment & Software		174,342	(150,575)	23,767	100.00%	23,767
	Office Machines and Equipment		5,908	(6,818)	(910)	100.00%	(910)
	Transportation Equipment		42,563	(5,474)	37,089	100.00%	37,089
393	Stores Equipment		4,530		4,530	100.00%	4,530
394	Tools, Shop, and Garage Equipment		108,040	330	108,370	100.00%	108,376
395	Laboratory Equipment		37,337		37,337	100.00%	37,337
396	Power Operated Equipment		4,565		4,565	100.00%	4,565
397	Communication Equipment		20,377	(12,595)	7,782	100.00%	7,782
398 399	Miscellaneous Equipment Other Tangible Property		36,498 236	(3,970) (236)	32,528	100.00% 100.00%	32,528
					-	-	

		<u> </u>	<u></u> -	Wastewater		
Acct.	Description	Applicant's Unadjusted	Adjustments	Staff's Adjusted Jurisdictional	Jurisdictional Allocations	Staff's Adjusted Jurisdictional
		(a)	(b)	(c)	(d)	(e)
	Corporate Office General Plant					
389	Land & Land Rights					
390	Structures & Improvements		502,008	502,008	13.01%	65,301
390	Limited Term Utility Plant		44.488	40.000	40.040/	= 071
391.1	Office Furniture		43,623	43,623	13.01%	5,674
391.2			428,574	428,574	13.01%	55,749
391.3	Office Machines & Equipment		11,877	11,877	13.01%	1,545
392	Transportation Equipment		106,841	106,841	13.01%	13,898
393	Stores Equipment					
394	Tools,Shop,& Garage Equipment					
395	Laboratory Equipment					
396	Power Operated Equipment		30,522	30,522	13.01%	3,970
397	Communication Equipment		22,177	22,177	13.01%	2,885
398	Miscellaneous Equipment					
399	Other Tangible Plant					
	Total Corporate Office General Plant		1,145,622	1,145,622		149,022
	Total Wastewater Plant	\$5,886,393 \$	658,227	6,544,620	\$	5,548,020

⁽a) (b) (c) (d) (e)

Applicant's Schedule B-3 and B-3.2 Staff's Schedule B-3.1c Columns (a) + (b) Staff's Schedule B-7, Depreciation Reserve Allocation Factor Columns (c) x (d)

Case No. 07-1112-WS-AIR Revenue Requirements <u>Summary of Staff's Adjustments to Reserve</u>

Acct.							Water				
		Structures		Lake	Plant		orporate	Corpo		Reserve	Total
<u>No.</u>	Description	mproveme (a)	nts _	White (b)	Exclusion (c)	sOffic	e Reclass (d)	s. <u>Office E</u> e		Reclass	Adjustments (g)
		(4)		(~)	(0)		(4)	,,	,	(•)	(9)
	Intangible Plant:										
301	Organization	i	\$		\$	\$		\$	\$	\$	
302											
303	Misc. Intangible Plant				·					1,421	1,421
	Total Intangible Plant									1,421	1,421
	Source of Supply Plant:										
	Land & Land Rights Structures & Improvements									7,222	7,222
	Collecting & Impounding Res.									(16)	(16)
313	Lake, River & Other Intakes									45	45
	Wells & Springs			(2,230)						(00)	(2,230)
	Infiltration, Galleries, and Tunnels Supply Mains									(29)	(29)
310	Total Source of Supply Plant			(2,230)		- —				7,222	4,992
				, , ,						•	·
	Pumping Plant:										
320	Land and Land Rights										
	Structures & Improvements										
	Other Power Prod. Equipment										
325	Electric Pumping Equipment			(30,716)	(29,515)	1					(60,231)
	Diesel Pumping Equipment										
328	Other Pumping Equipment					- —					
	Total Pumping Plant			(30,716)	(29,515)	ı					(60,231)
	Water Treatment Plant:										
330	Land and Land Rights										
331	Structures & Improvements										
332	Water Treatment Equipment	_		(2,605)					 -		(2,605)
	Total Water Treatment Plant			(2,605)							(2,605)
	Transmission & Distribution Plant:										
340	Land & Land Rights									1,228	1,228
	Structures & Improvements									• ==	,
	Distr. Reser. & Standpipes			20							20
	Trans, and Distr. Mains										
	Services			-							-
	Meters Meter Installations			7							7
	Hydrants										
	Other Transmission and Distribution	Plant								(84)	(84)
	Total Trans, & Distribution Plant \$		\$	27	e	\$		\$	\$	1,144 \$	1,171

Case No. 07-1112-WS-AIR Revenue Requirements Summary of Staff's Adjustments to Reserve

						Wate	гА		
Acct.			uctures &	Lake	Plant	Corporate	Corporate	Reserve	Total
<u>No.</u>	Description	Impi	rovements (a)	White (b)	(c)	(d)	s. Office Exclus. (e)	Reclass. (f)	Adjustments (g)
			(4)	(6)	(4)	(4)	(6)	(1)	(9)
	General Plant:								
389	Land & Land Rights	\$	\$		\$	\$	\$	\$ \$	
390 390	• • • • • • • • • • • • • • • • • • • •		(1,361)	25		(613,3 91))		(614,727)
	Office Furniture					(111,021))		(111,021)
	Computer Equipment & Software					(524,595)			(524,595)
	Office Machines & Equipment				(7,738				(24,162)
	Transportation Equipment					(93,442))		(93,442)
393 394	Stores Equipment Tools,Shop,& Garage Equipment								
395	Laboratory Equipment				(3,740)			(3,740)
396	Power Operated Equipment				1-7-	•			(-)/
397						(141,566)	•		(141,566)
398	Miscellaneous Equipment					(18,351)			(18,351)
399	Other Tangible Plant					(3,588)	<u> </u>		(3,588)
	Total General Plant		(1,361)	25	(11,478)	(1,522,378))		(1,535,192)
	Corporate Office General Plant								
389	Land & Land Rights								
390	Structures & Improvements					738,333	(236,325)		502,008
390	Limited Term Utility Plant								
	Office Furniture					135,297	(91,674)		43,623
	Computer Equipment & Software Office Machines & Equipment					1,603,636 33,113	(1,175,062) (21,236)		428,574 11,877
	Transportation Equipment					106,841	(2.,-00)		106,841
	Stores Equipment								·
	Tools, Shop, & Garage Equipment								
	Laboratory Equipment Power Operated Equipment								
	Communication Equipment					172,397	(141,875)		30,522
398	Miscellaneous Equipment					28,069	(5,892)		22,177
399	Other Tangible Plant					4,165	(4,165)		
	Total Corporate Office General Plan	ıt				2,821,851	(1,676,229)		1,145,622
	Total Water A Plant	\$	(1,361) \$	(35,499)	\$ (40,993)	\$ <u>1,299,473</u>	\$ (1,676,229)	\$ <u>9,787</u> \$_	(444,821)

- (a)
- Staff's Schedule B-3,1a1 Staff's Schedule B-3,1a2 (b)
- (c)
- Staff's Schedule B-3.1a3 Staff's Schedule B-3.1a4 (d)
- Staff's Schedule B-3.1a5 (e)
- Staff's Schedule B-3.1a6 **(f)**
- Columns (a) Thru (f)

Case No. 07-1112-WS-AIR Revenue Requirements Structures & Improvements Depreciation Reserve Adjustment

	Account 390 Structures & Improvements - Counter and Wall Panels:	_	Water A (a)
(1)	Counter and Wall Panels	\$	(3,590)
(2)	Accrual Rate - Case No. 86-1924-WW-AIR		1.99%
(3)	Age from 7-1-90 to 6-4-92		1.92
(4)	Accrual Rate - Case No. 91-1318-WW-AIR and 91-628-WW-AAM		2.00%
(5)	Age from 6-4-92 to 6-30-2000		8.08
(6)	Accrual Rate - Case No. 99-1038-WW-AIR		2.56%
(7)	Age from 7-1-2000 to 12-31-2002		7
(8)	Adjustment [(1) x (2) x (3)] + [(1) x (4) x (5)] + [(1) x (6) x (7)]	\$	(1,361)

⁽a) Staff's Schedule B-2.2a1

Case No. 07-1112-WS-AIR Revenue Requirements Lake White Depreciation Reserve Adjustment

Acct.	Description		Water A
		_	(a)
314	Wells and Springs	\$	(2,230)
325	Electric Pumping Equipment		(30,716)
332	Water Treatment Equipment		(2,605)
342	Distribution Reservoirs & Standpipes		20
346	Meters		7
390	Structures & Improvements		25
	Total Lake White Depreciation Reserve Adjustment	\$	(35,499)

⁽a) Derived from Stipulation in Case No. 03-2390-WS-AIR

Case No. 07-1112-WS-AIR Revenue Requirements Plant Exclusions Depreciation Reserve Adjustment

		w	ater A (a)
(1)	Exclusion of 30 Agres of Land at Mansfield - Account 310	\$	
(2)	Exlusion of Electric Pumping at Lake White - Account 325		(29,515)
(3)	Exclusion of Two Deskpro 4000 Computers at Ashtabula - Account 391.2		(7,738)
(4)	Exclusion of PH Meter at Marion - Account 395		(1,260)
(5)	Exclusion of Zeta Meter at Marion - Account 395		(2,480)
(6)	Exclusion of Well 15 Rehab at Marion - Account 325		(667)
(7)	Total Reserve Adjustments (1) Thru (5)	\$	(41,660)

⁽a) Staff's Workpaper WPB-3.1a3

Case No. 07-1112-WS-AIR Revenue Requirements Corporate Office Reclassification Depreciation Reserve Adjustment

Acct.		
No.	Description	Water A
		(a)
390	Structures & Improvements	\$ (613,391)
391	Office Furniture	(111,021)
391	Computer Equipment & Software	(524,595)
391	Office Machines & Equipment	(16,424)
392	Transportation Equipment	(93,442)
397	Communications Equipment	(141,566)
398	Miscellaneous Equipment	(18,351)
399	Other Tangible Plant	(3,588)
	Total	(1,522,378)
390	Structures & Improvements	738,333
391	Office Furniture	135,297
391	Computer Equipment & Software	1,603,636
391	Office Machines & Equipment	33 ,113
392	Transportation Equipment	106,841
397	Communications Equipment	172,397
398	Miscellaneous Equipment	28,069
399	Other Tangible Plant	4,165
	Total	2,821,851
	Total Corporate Office General Plant	\$ <u>1,299,473</u>

⁽a) Staff's Workpaper WPB-3.1a4

Case No. 07-1112-WS-AIR Revenue Requirements Corporate Office Exclusions Depreciation Reserve Adjustment

Acct.	. Description	-	Water A (a)
390	Structures & Improvements	\$	(236,325)
391	Office Furniture & Equipment		(91,674)
391	Computer Equipment & Software		(1,175,062)
391	Office Machines & Equipment		(21,236)
397	Communication Equipment		(141,875)
398	Miscellaneous Equipment		(5,892)
399	Other Tangible Plant	_	(4,165)
	Total	\$_	(1,676,229)

⁽a) Staff's Workpaper WPB-3.1a5

Case No. 07-1112-WS-AIR Revenue Requirements <u>Depreciation Reserve Reclassifications Adjustment</u>

Acct.	<u>Description</u>	_	Water A (a)
####	Comprehensive Planning Study	\$	1,421
310	Land and Land Rights (b)		7 ,2 22
312	Collecting and Impounding Reservoirs		(16)
313	Lake, River & Other Intakes		45
315	Infiltration, Galleries, and Tunnels		(29)
340	Land and Land Rights (b)		1,228
349	Other Transmission and Distribution Plant		(84)
	Total	\$ <u>19</u>	3,381,333

⁽a) Staff's Workpaper WPB-3.1a6 (b) Applicant's Schedule B-3.1

Case No. 07-1112-WS-AIR Revenue Requirements <u>Summary of Staff's Adjustments to Reserve</u>

A 4		 12 Plant in	Brimfield	Corporate Office	Vater C General Office	Total
Acct. No.	Description	 ız Piant in e Adjustment			Plant Exclusion	ı otal Adjustmentş
110.	DOSOTIPHON	 (a)	(b)	(c)	(d)	(e)
	Intangible Plant:					
301	Organization	\$ \$		\$ \$	\$	
302	Franchises & Consents					
303	Misc. Intangible Plant				(1,421)	(1,421
303.99	Comprehensive Planning Study	 			(1,421)	(1,421
	Total Intangible Plant				(1,421)	(1,421)
	Source of Supply Plant:					
310	Land & Land Rights					
311	Structures & Improvements		(17,233)		16	(17,233)
312 313	Collecting & Impounding Res. Lake, River & Other Intakes				(45)	16 (45
314	Wells & Springs	105	(26,705)		(+4)	(26,600)
315	Infiltration, Galleries, & Tunnels		(,,		29	29
316	Supply Mains	 				
	Total Source of Supply Plant	105	(43,938)			(43,833
	Pumping Plant:					
320	Land and Land Rights					
32 1	Structures & Improvements		(9,605)			(9,605)
323	Other Power Prod. Equipment					
325	Electric Pumping Equipment	620	(76,185)			(75,565
326 328	Diesel Pumping Equipment Other Pumping Equipment					
320	Other Pumping Equipment	 				
	Total Pumping Plant	620	(85,790)			(85,170)
	Water Treatment Plant:					
330	Land and Land Rights					
331	Structures & Improvements					
332	Water Treatment Equipment	 				
	Total Water Treatment Plant					
	Transmission & Distribution Plant:					
340	Land & Land Rights					
341	Structures & Improvements					
342	Distr. Reser. & Standpipes					
343	Trans. and Distr. Mains	(42.04.4)	(20,495)			(20,495)
345 346	Services Meters	(13,014) 1,305				(13,014) 1,305
340 347	Meters Meter Installations	1,505				1,305
348	Hydrants					
349	Other Transmission and Distribution Plant	 			84	84
	Total Transmission & Distribution Plant	\$ (11,709) \$	(20,495)	5 5	84 \$	(32,120)

Case No. 07-1112-WS-AIR Revenue Requirements Summary of Staff's Adjustments to Plant In Service

		Water C				
Acct.	Secondaria de la companya del companya de la companya del companya de la companya	2002 Plant in	Brimfield	Corporate Office	General Office	Total
No.	Description	Se <u>rvice Adjustme</u> (a)	ní Exclusion (b)	Reclassification (c)	Plant Exclusion (d)	Adjustments (e)
	General Plant:					
389	Land & Land Rights	\$	\$	\$ \$	\$	
390	Structures & Improvements			(73,900)		(73,900)
390	Limited Term Utility Plant					
391.1	Office Furniture & Equipment	(1,038)		(14,359)		(15,397)
391.2				(218,007)		(218,007)
	Other Office Equipment	(4.00.4)		(9,871)		(9,871)
392	Transportation Equipment	(4,034)		(7,925)		(11,959)
393 394	Stores Equipment Tools,Shop,& Garage Equipment	3,618				3,618
395	Laboratory Equipment	3,010				3,010
396	Power Operated Equipment					
397	Communication Equipment			(18,236)		(18,236)
398	Miscellaneous Equipment	214		(5,748)		(5,534)
399	Other Tangible Plant			(341)		(341)
555	amor rangisto y torre		-			
	Total General Plant	(1,240)		(348,387)		(349,627)
	Corporate Office General Plant					
389	Land & Land Rights					
390	Structures & Improvements			502,008		502,008
390	Limited Term Utility Plant					
391.1	Office Furniture & Equipment			43,623		43,623
	Computer Equipment & Software			428,574		428,574
391.3	Office Machines & Equipment			11,877		11,877
392	Transportation Equipment			106,841		106,841
393	Stores Equipment					
394	Tools,Shop,& Garage Equipment					
395 396	Laboratory Equipment Power Operated Equipment					
397	Communication Equipment			30,522		30,522
398	Miscellaneous Equipment			22,177		22,177
399	Other Tangible Plant					
	Total Corporate Office General Plant			1,145,622		1,145,622
	Total Citizens Water and Corporate Office	\$(12,224) \$	(150,223) \$ 797,235 \$	(1,337) \$	633,451

Staff's Schedule B-3.1b1 Staff's Schedule B-3.1b2 Staff's Schedule B-3.1b3 Staff's Schedule B-3.1b4 Columns (a) thru (d) (a) (b) (c) (d) (e)

Case No. 07-1112-WS-AIR Revenue Requirements Depreciation Reserve 2002 Plant In Service Adjustment

Acct.	v	Vater C
No. Description		(a)
314 Wells & Springs	\$	105
325 Electric Pumping Equipment		620
345 Services		(13,014)
346 Meters		1,305
391.1 Office Furniture		(1,038)
392 Transportation Equipment		(4,034)
394 Tools, Shop & Garage Equipment		3,618
398 Miscellaneous Equipment		214
Total Water 2002 Adjustment	\$	(12,224)

⁽a) Staff's Workpaper WPB-3.1b1

Case No. 07-1112-WS-AIR Revenue Requirements Brimfield and ODOT Exclusion Depreciation Reserve Adjustment

Acct. No.	Description	 /ater C ODOT (a)	Water C Brimfield (b)
	Source of Supply Plant:	1-7	()
310	Land & Land Rights	\$ \$	
311	Structures & Improvements		(17,233)
314	Wells & Springs		(26,705)
316	Supply Mains	-	
	Total Source of Supply Plant		(43,938)
	Pumping Plant:		
320	Land and Land Rights		
321	Structures & Improvements		(9,605)
325	Electric Pumping Equipment	_	(76,185)
	Total Pumping Plant		(85,790)
	Transmission & Distribution Plant:		
343	Trans. and Distr. Mains	 (20,495)	
	Total Trans. & Distribution Plant	(20,495)	
	Total ODOT and Brimfield Plant Exclusion	\$ (20,495) \$	(129,728)

⁽a) Staff's Workpaper WPB-3.1b2a (b) Staff's Workpaper WPB-3.1b2b

Case No. 07-1112-WS-AIR Revenue Requirements <u>Corporate Office Reclassification Adjustment</u>

			Water C
	Corporate Office General Plant:		(a)
200	Land & Land Rights	\$	
390	Structures & Improvements	a a	(73900.00)
	Limited Term Utility Plant		(73900.00)
	Office Furniture		(14359.00)
	Computer Equipment & Software		(218007.00)
	Office Machines & Equipment		(9871.00)
	Transportation Equipment		(7925.00)
393	Stores Equipment		(1320.00)
	Tools,Shop,& Garage Equipment		
395	Laboratory Equipment		
-	Power Operated Equipment		
	1		(18236.00)
	Miscellaneous Equipment		(5748.00)
	Other Tangible Plant		(341.00)
000	Case Tangista Fan	_	
	Total Corporate Office General Plant	\$_	(348387.00)
	Corporate Office General Plant:	_	Water C (b)
	Corporate Office General Plant:		(b)
389	Land & Land Rights	\$	
390	Structures & Improvements		502,008
390	Limited Term Utility Plant		
-	Office Furniture		43,623
	Computer Equipment & Software		428,574
	Office Machines & Equipment		11,877
	Transportation Equipment		106,841
	Stores Equipment		
	Tools,Shop,& Garage Equipment		
	Laboratory Equipment		
	Power Operated Equipment		
	Communication Equipment		30,522
	Miscellaneous Equipment		22,177
399	Other Tangible Plant	-	
	Total Corporate Office General Plant	\$	1,145,622

⁽a) Staff's Workpaper WPB-3.1b3 (b) Staff's Schedule B-3a

Case No. 07-1112-WS-AIR Revenue Requirements <u>Depreciation Reserve Reclassification Adjustment</u>

Acct.			
No.	Description		Water C
		_	(a)
304	Comprehensive Planning Study	\$	(1,421)
312	Collection & Impounding Res.		` 16 [′]
313	Lake, River & Other Intakes		(45)
314	Wells & Springs		` '
315	Infiltration, Galleries & Tunnels		29
325	Electric Pumping Equipment		
345	Services		
346	Meters		
349	Other Trans. & Distr. Plant		84
391.1	Office Furniture		
391.2	Computer Equipment & Software		
392	Transportation Equipment		
394	Tools,Shop,& Garage Equipment		
398	Miscellaneous Equipment		
	Various Accounts	_	
	Total	\$	(1,337)

Case No. 07-1112-WS-AIR Revenue Requirements <u>Summary of Staff's Adjustments to Plant in Service</u>

				Wa	astewater	
Acct.	Decariation	2002 Plant In Service Adjustmen	Corporate Office	General Office	Corporate Office	Total
No.	Description	Service Adjustiner (a)	(b)	Plant Exclusion (c)	Adjustment (d)	Adjustments (e)
	Intangible Plant:	1-7	ζ-1	(-)	()	1 -7
301	Organization	\$	\$	\$	\$ \$	
302	Franchises & Consents					
	Total Intangible Plant					
	Collection Plant:					
310	Land and Land Rights					
351	Structures & Improvements					
352	Collection Sewers					
	Collection Sewers-Force Collection Sewers-Gravity					
	Special Collecting Structures					
	Services to Customers					
354	Flow Measuring Devices	207		661		868
355	Flow Measuring Installations					
356	Other Collection Plant Facilities					
	Total Collection Plant	207		661		868
	Pumping Plant:					
360	Land and Land Rights					
361	Structures & Improvements					
	Receiving Wells					
	Electric Pumping Equipment					
364 365	Diesel Pumping Equipment Other Pumping Equipment	53,335				53,335
-	Carlot Camping adaption					44,444
	Total Pumping Plant	53,335				53,335
	Treatment and Disposal Plant:					
	Other Land and Land Rights					
371	Structures & Improvements	/FO 000\	(050,000)			(000.000)
372 373	Treatment and Disposal Equipment Plant Sewers	(53,093)	(250,000)			(303,093)
374	Outfall Sewer Lines					
375	Other Treatment and Disposal Plant Equipment					
	Total Treatment and Disposal Plant	(53,093)	(250,000)			(303,093)
	General Plant:					
389	Land and land rights					
390		1,792			(51,042)	(49,250)
	Office Furniture & Equipment				(9,917)	(9,917)
	Computer Equipment & Software				(150,575)	(150,575)
	Office Machines and Equipment Transportation Equipment				(6,818) (5,474)	(6,818) (5,474)
	Stores Equipment				(0,414)	(5,474)
	Tools, Shop, and Garage Equipment	330				330
	Laboratory Equipment					
	Power Operated Equipment					
	Communication Equipment				(12,595)	(12,595)
	Miscellaneous equipment				(3,970)	(3,970)
399	Other Tangible Property				(236)	(236)
	Total General Plant	\$ 2,122	\$	\$	\$ (240,627) \$	(238,505)

Case No. 07-1112-WS-AIR Revenue Requirements Summary of Staff's Adjustments to Plant In Service

		Wastewater						
Acct.		200	2 Plant In	Corporate Office	Gener	al Office	Corporate Office	Total
No.	Description	Service	<u>Adjustment</u>	Reclassification	Plant E	xclusion	Adjustment	Adjustments
			(a)	(b)		c)	(d)	(e)
	Corporate Office General Plant							
389	Land & Land Rights	\$	\$	ı	\$,	\$ \$	
390	Structures & Improvements						502,008	502,008
391.1	Office Furniture							
391.2	Computer Equipment & Software						43,623	43,623
391.3	Office Machines & Equipment						428,574	428,574
392	Transportation Equipment						11,877	11,877
393	Stores Equipment						106,841	106,841
394	Tools,Shop,& Garage Equipment							
395	Laboratory Equipment							
396	Power Operated Equipment							
397	Communication Equipment						30,522	30,522
398	Miscellaneous Equipment						22,177	22,177
399	Other Tangible Plant							
	Total Corporate Office General Plant						1,145,622	1,145,622
	Total Citizens Wastewater and Corporate Office	\$	2,571 \$	(250,000)	\$	661	904,995 \$	658,227

⁽a) Staff's Schedule B-3.1c1
(b) Staff's Schedule B-3.1c2
(c) Staff's Schedule B-3.1c3
(d) Staff's Schedule B-3.1c4
(e) Columns (a) thru (d)

Case No. 07-1112-WS-AIR Revenue Requirements 2002 Plant in Service Depreciation Reserve Adjustment

Acct. No.	Description	 Wastewater (a)
354	Flow Measuring Devices	\$ 207
365	Other Pumping Equipment	53,335
372	Treatment & Disposal Equipment	(53,093)
390	Structures & Improvements	1,792
394	Tools, Shop, & Garage Equipment	 330
	Total Wastewater 2002 Adjustment	\$ 2,571

(a) Staff's Workpaper WPB-3.1c1

Case No. 07-1112-WS-AIR Revenue Requirements Account 372 - Treatment and Disposal Equipment

		 Wastewater (a)
(1)	Retirement of Fixed Location Frame Mounted Rope Media	\$ (250,000)

(a) Applicant's Schedule B-3.1

Case No. 07-1112-WS-AIR Revenue Requirements <u>Depreciation Reserve Reclassification Adjustment</u>

Account No. Description Wastewater (a) 301 Organization 302 Franchises and consents Total **Collection Plant** 351 Structures & Improvements 352 Collection Sewers 352.1 Collection Sewers-Force 352.2 Collection Sewers-Gravity 352.3 Special Collecting Structures 353 Services to Customers 661 354 Flow Measuring Devices 355 Flow Measuring Installations 356 Other Collection Plant Facilities Total 661 **Pumping Plant** 361 Structures & Improvements 362 Receiving Wells 363 Electric Pumping Equipment 364 Diesel Pumping Equipment 365 Other Pumping Equipment **Total** Treatment and Disposal Plant 370.2 Other Land and Land Rights 371 - Structures & Improvements 372 Treatment and Disposal Equipment 373 Plant Sewers 374 Outfall Sewer Lines 375 Other Treatment & Disposal Plant Equipment Total General Plant 390 Structures & Improvements 391.1 Office Furniture and Equipment 391.2 Office Furniture and Equipment 391.3 Office Furniture and Equipment 392 Transportation Equipment 393 Stores Equipment 394 Tools, Shop, and Garage Equipment 395 Laboratory Equipment 396 Power Operated Equipment 397 Communication Equipment 399 Other Tangible Property Total **Total Reserve** 661

(a) Staff's Workpaper WPB-3.1c3

Case No. 07-1112-WS-AIR Revenue Requirements Corporate Office Reclassification Depreciation Reserve Adjustment

			Wastewater
	Corporate Office General Plant:		(a)
389	Land & Land Rights	\$	
390	Structures & Improvements	*	(51,042)
390	Limited Term Utility Plant		(/
391.1	Office Furniture		(9,917)
391.2	Computer Equipment & Software		(150,575)
391.3	Office Machines & Equipment		(6,818)
392	Transportation Equipment		(5,474)
393	Stores Equipment		
394	Tools,Shop,& Garage Equipment		
395	Laboratory Equipment		
396	Power Operated Equipment		
397	Communication Equipment		(12,595)
398	Miscellaneous Equipment		(3,970)
399	Other Tangible Plant		(236)
	Total Corporate Office General Plant	\$	(240,627)
			Wastewater
	Corporate Office General Plant:		(b)
389	Land & Land Rights	\$	
390	Structures & Improvements	Þ	502,008
390 390	Limited Term Utility Plant		302,000
391.1	Office Furniture		43,623
391.1	Computer Equipment & Software		428,574
391.3	Office Machines & Equipment		11,877
392	Transportation Equipment		106,841
393	Stores Equipment		,
394	Tools,Shop,& Garage Equipment		
395	Laboratory Equipment		
396	Power Operated Equipment		
397	Communication Equipment		30,522
398	Miscellaneous Equipment		22,177
399	Other Tangible Plant		
	Total Corporate Office General Plant	\$	1,145,622

- Staff's Workpaper WPB-3.1c4 Staff's Schedule B-3a (a)
- (b)

Case No. 07-1112-WS-AIR Revenue Requirements <u>Calculation of Jurisdictional Depreciation Expense</u>

				Water A	
			Jurisdictional		Jurisdictional
Acct.			Plant In	Accrual	Depreciation
<u>No.</u>	Description		Service _	Rate	Expense
	Intangible Plant:		(a)	(b)	(c)
301	Organization	\$	138,677	\$	
302			161		
303	Misc. Intengible Plant		48,499	20.000/	(-)
303.99	Comprehensive Planning Study		275,663	20.00%	(e)
	Total Intangible Plant		463,000		
	Source of Supply Plant:				
310	Land & Land Rights		278,968		
311	Structures & Improvements		436,641	1.83%	7,991
312					
	Lake, River & Other Intakes		1,297,897	2.05%	26,607
314	Wells & Springs		809,516	4.00%	32,381
315	Infiltration, galleries, and tunnels		074 704	4.000/	4 705
316	Supply Mains		371,704	1.29%	4,795
	Total Source of Supply Plant		3,194,726		71,774
	Pumping Plant:				
320	Land and Land Rights		49,109		
321	Structures & Improvements		1,394,296	3.46%	48,243
323	Other Power Prod. Equipment		263,654	3.67%	9,676
325	Electric Pumping Equipment		6,016,651	3.13%	188,321
326	Diesel Pumping Equipment		61,295	3.13%	1,919
327	Hydraulic pumping equipment		9,643	3.13%	302
328	Other Pumping Equipment	•	1,697_	1.67%	28
	Total Pumping Plant		7,796,345		248,489
	Water Treatment Plant:				
330	Land and Land Rights		84,767		
331	Structures & Improvements		2,585,889	3.64%	94,126
332	Water Treatment Equipment	-	11,800,987	3. 59 % _	423,655
	Total Water Treatment Plant		14,471,643		517,781
	Transmission & Distribution Plant:				
340	Land & Land Rights		354,571		
341	Structures & Improvements		32,609	3.64%	1,187
342	Distr. Reser. & Standpipes		3,836,719	2.71%	103,975
343	Trans. and Distr. Mains		36,597,346	1.4 2 %	519,682
345	Services		7,843,574	5.00%	392,179
346	Meters		3,416,462	5.94%	202,938
347	Meter Installations		1,866,343	2.50%	46,659
348 349	Hydrants Other Transmission and Distribution Plant		2,761,472	2.33%	64,342
5-45		-		_	
	Total Trans. & Distribution Plant	\$	56,709,096	\$	1,330,962

Case No. 07-1112-WS-AIR Revenue Requirements <u>Calculation of Jurisdictional Depreciation Expense</u>

				Water A	
Acct. <u>No.</u>	Description		Jurisdictional Plant In Service	Accrual Rate	Jurisdictional Depreclation Expense
			(a)	(b)	(c)
389	Land & Land Rights	\$	20,924	\$	
390	Structures & Improvements	Ψ	358,228	2.56%	9,171
390	Limited Term Utility Plant		143,138	2.5070	(d)
	Office Furniture		29,043	4.22%	1,226
	Computer Equipment & Software		(95,288)	12.50%	(11,911)
	Office Machines & Equipment		31,507	11.11%	3,500
392	Transportation Equipment		1,099,254	15.00%	(e)
393	Stores Equipment		24,732	2.86%	707
394	Tools,Shop,& Garage Equipment		1,057,417	3.39%	35,846
395	Laboratory Equipment		223,403	5.00%	11,170
396	Power Operated Equipment		501,199	6.54%	32,778
397	Communication Equipment		106,311	10.00%	10,631
398	Miscellaneous Equipment		121,600	4.00%	4,864
399	Other Tangible Plant		572	25.00%	143
	Total General Plant		3,622,040		98,125
	Capital Lease				
	Corporate Office General Plant				
3 89	Land & Land Rights		9,170		
390	Structures & Improvements		1,070,298	2.56%	27,400
390	Limited Term Utility Plant				
391.1	Office Furniture		34,267	4.22%	1,446
391.2	Computer Equipment & Software		324,920	12.50%	40,615
391.3	Office Machines & Equipment		15,088	11.11%	1,676
392	Transportation Equipment		59,965	15.00%	(e)
393	Stores Equipment				
394	Tools,Shop,& Garage Equipment				
395	Laboratory Equipment				
396	Power Operated Equipment				
	Communication Equipment		24,132	10.00%	2,413
398	Miscellaneous Equipment		36,209	4.00%	1,448
399	Other Tangible Plant			-	
	Total Corporate Office General Plant		1,574,049		74,998
	Total Water A	\$.	87,830,899	\$_	2,342,129

⁽a) Staff's Schedule B-2.1
(b) Refer to Text
(c) Columns (a) x (b)
(d) Staff's Schedule C-3.19
(e) Fully Depreciated

Case No. 07-1112-WS-AIR Revenue Requirements Calculation of Jurisdictional Depreciation Expense

				Water C	
		_	Jurisdictional		Jurisdictional
Acct. <u>No.</u>	Description		Plant In Service	Accrual Rate	Depreciation Expense
1141		-	(a)	(b)	(c)
	Intangible Plant:				
	Organization	\$	19,118	\$	
-	Franchises & Consents		11,019		
	Misc. Intangible Plant				
303.99	Comprehensive Planning Study	_			
	Total Intangible Plant		30,137		
	Source of Supply Plant:				
	Land & Land Rights		97,495		
	Structures & Improvements		790,477	2.73%	21,580
	Collecting & Impounding Res.		587	4.17%	24
	Lake, River & Other Intakes		540.078	0.440/	42.405
	Wells & Springs		512,075	2.44% 2.50%	12,495 29
315 316		_	1,140	2.50%	
	Total Source of Supply Plant	_	1,401,774		34,128
	Pumping Plant:				
320	Land and Land Rights		3,601		
321	Structures & Improvements		143,292	2.08%	2,980
323	Other Power Prod. Equipment		54,001	3.03%	1,636
325	Electric Pumping Equipment		892,040	3.67%	32,738
326					
328	Other Pumping Equipment	_			
	Total Pumping Plant		1,092,934		37,354
	Water Treatment Plant:				
	Land and Land Rights				
331	•		454,201	1.85%	8,403
332	Water Treatment Equipment	_	2,981,152	2.88%	85,857
	Total Water Treatment Plant		3,435,353		94,260
	Transmission & Distribution Plant:				
340	Land & Land Rights		7,153		
341	Structures & Improvements				
342	Distr. Reser. & Standpipes		865,704	2.17%	18,786
343	Trans. and Distr. Mains		3,987,348	1.43%	57,019
345	Services		835,739	2.17%	18,136
	Meters Meter Installations		1,069,795	3.84% 3.84%	41,080 175
347 348	Meter Installations Hydrants		4,569 387,234	3.84% 1.92%	7,435
349	Other Transmission and Distribution Plant	_	1,674	5.00%	84
	Total Trans. & Distribution Plant	\$	7,159,216	\$	142,715

Case No. 07-1112-WS-AIR Revenue Requirements <u>Calculation of Jurisdictional Depreciation Expense</u>

				Water C	
		•	Jurisdictional		Jurisdictional
Acct.			Plant In	Accrual	Depreciation
No.	Description		Service	Rate	Expense
		-	(a)	(þ)	(c)
389	Land & Land Rights	\$	7,216	\$	
390	Structures & Improvements		120,965	2.50%	3,024
390	Limited Term Utility Plant				
391.1	Office Furniture		40,561	5.00%	2,028
391.2	Computer Equipment & Software		33,024	12.50%	4,128
391.3	Office Machines & Equipment		82,402	5.00%	4,120
392	Transportation Equipment		272,992	20.00%	(e)
393	Stores Equipment		1,999	5.00%	100
394	Tools,Shop,& Garage Equipment		193,043	5.94%	11,467
395	Laboratory Equipment		37,424	6.67%	2,496
396	Power Operated Equipment		8,482	3.33%	282
397	Communication Equipment		23,439	5.00%	1,172
398	Miscellaneous Equipment		234,040	5.00%	11,702
399	Other Tangible Plant	-	92,196	25.00%	23,049
	Total General Plant		1,147,783		63,568
	Capital Lease				
	Corporate Office General Plant				
389	Land & Land Rights		1,517		
390	Structures & Improvements		176,170	2.56%	4,510
390	Limited Term Utility Plant				
391.1	Office Furniture		4,958	4.22%	209
391.2	Computer Equipment & Software		19,872	12.50%	2,484
391.3	Office Machines & Equipment		1,014	11.11%	113
392			9,918	15.00%	(e)
3 93	Stores Equipment				
394	Tools, Shop, & Garage Equipment				
395	Laboratory Equipment				
396	Power Operated Equipment				
397	Communication Equipment		3,759	10.00%	376
398	Miscellaneous Equipment		5,783	4.00%	231
399	Other Tangible Plant	_		-	
	Total Corporate Office General Plant		222,991		7,923
	Less: Annual Depreciation Expense CIAC (d)				(47,010)
	Total Water C	\$_	14,490,188	\$ _	332,938

⁽a) Staff's Schedule B-2.1

⁽b) Refer to Text
(c) Columns (a) x (b)
(d) Applicant's Schedules C-3.19, and C-3.20
(e) Fully Depreciated

Case No. 07-1112-WS-AIR Revenue Requirements Calculation of Jurisdictional Depreciation Expense

				Wastewater	
Acct.		Jurisdio Plan	t In	Accrual	Jurisdictional Depreciation
No.	Description	Serv	·····	Rate	Expense
		(a)	,	(b)	(c)
	<u>Intangible Plant:</u>				
301	Organization	\$	70,826	\$	
302	Franchises & Consents		2,190	_	
	Total intangible Plant	;	73,016		
	<u>Collection Plant:</u>				
310	Land and Land Rights				
351	Structures & Improvements		14,313	2.50%	5,358
352	Collection Sewers	•	04,314	1.56%	53,107
352	Collection Sewers-Force	;	37,741	2.33%	879
352	•	_			
352	Special Collecting Structures		33,402	1.96%	18,295
353	Services to Customers		45,423	1.92%	6,632
354	Flow Measuring Devices	7	21,119	2.00%	422
355	Flow Measuring Installations Other Collection Plant Facilities				
356		<u> </u>		_	
	Total Collection Plant	4,98	56,312		84,693
	Pumping Plant:				
360	Land and Land Rights				
361	Structures & Improvements	1,40	04,980	2.00%	28,100
362	Receiving Wells	,		4.6507	= 10
363	Electric Pumping Equipment	·	18,552	4.00%	742
364 365	Diesel Pumping Equipment Other Pumping Equipment	15	50,967	4.00%	6,039
	Total Pumping Plant	1,57	74,499		34,881
	Treatment and Disposal Plant:				
370 2	Other Land and Land Rights	12	14,465		
370.2	Structures & Improvements		56.341	2.00%	1,327
372	Treatment and Disposal Equipment		22,284	3.13% (d)	210,407
373	Plant Sewers	-,	,	3 (10) (4)	,
374	Outfall Sewer Lines				
375	Other Treatment and Disposal Plant Equipment	<u></u>		_	
	Total Treatment and Disposal Plant	6,93	33,090		211,734
	General Plant:				
389	Land and land rights				
390	Structures & Improvements	30	3,025	2.50%	7,576
390.1	Office Furniture		(855)	5.26%	(45)
	Office Furniture and Equipment		6,406	20.00%	1,281
	Office machines and equipment	_	(910)	5.26%	(48)
392	Transportation Equipment	1	18,427	20.00%	(e)
393	Stores Equipment		3,788	6.25%	(e)
394	Tools, Shop, and Garage Equipment		33,588	5.00%	11,679
395	Laboratory Equipment	4	4,926	5.26%	2,363
39 6 397	Power Operated Equipment		3,726 6,639	10.00% 5.00%	373
398	Communication Equipment Miscellaneous equipment		10,639 19,354	5.00% 3.57%	832 18,184
399	Other Tangible Property		-5,554	3.57%	10,104
	Total General Plant	\$ 1,13	8,114	\$	42,195

Case No. 07-1112-WS-AIR Revenue Requirements Calculation of Jurisdictional Depreciation Expense

			Wastewater	
Acct. No.	Description	Jurisdictional Plant In Service	Accrual Rate	Jurisdictional Depreciation Expense
		(a)	(b)	(c)
	Corporate Office General Plant			
389	Land & Land Rights	\$ 1,560	\$	
390	Structures & Improvements	181,206	2.56%	4,639
390	Limited Term Utility Plant			
391.1	Office Furniture	5,099	4.22%	215
391.2	Computer Equipment & Software	20,440	12.50%	2,555
391.3	Office Machines & Equipment	1,043	11.11%	116
392	Transportation Equipment	10,202	15.00%	(e)
393	Stores Equipment			
394	Tools,Shop,& Garage Equipment			
395	Laboratory Equipment			
396	Power Operated Equipment			
397	Communication Equipment	3,867	10.00%	387
398	Miscellaneous Equipment	5,94 9	4.00%	238
399	Other Tangible Plant			
	Total Corporate Office General Plant	229,366		8,150
	Less: Annual Depreciation Expense - CIAC (f)			(64,945)
	Total Wastewater and Corporate Office	\$ 14,904,397	\$	316,708

⁽a) Staff's Schedule B-2.1c
(b) Refer to Text
(c) Columns (a) x (b)
(d) Staff's Workpaper B-3.2c
(e) Fully Depreciated
(f) Applicant's Schedules C-3.19 and C-3.20

SCHEDULE B-4

Case No. 07-1112-WS-AIR Revenue Requirements Construction Work In Progress Summary

None

SCHEDULE B-5

Case No. 07-1112-WS-AIR
Revenue Requirements
Working Capital Allowance

None

Case No. 07-1112-WS-AIR Revenue Requirements Other Rate Base Items

		_	Water A	Water C	Wastewater
(1)	Customers' Advances for Construction - Account 252 (a)	\$	(5,049,871) \$	(340,294) \$	
(2)	Contributions in Aid of Construction (b)			(1,265,893)	(1,966,782)
(3)	Investment Tax Credit - Account 255 (a)		(54,539)		
(4)	Deferred Taxes - Account 282 (c)		(5,243,966)	(869,570)	(880,333)
(5)	Deferred Taxes - Account 283 (a)				
(6)	Deferred Taxes - Regulatory Liability - Account 253 (a)		(87,762)		
(7)	Derred Taxes - ITC Gross-up - Account 255 (a)		(24,477)		
(8)	Deferred Taxes - Regulatory Asset AFUDC - Account 186 (c)		1,138,012	188,708	191,044
(9)	Regulatory Asset - AFUDC Debt - Accounts 102 and 108.3 (c)		129,346	21,449	21,714
(10)	Tank Painting Reserve - Account 265 (a)		(138,905)		
(11)	Deferred Depreciation - Account 186 (d)		57,724	<u></u> _	
(12)	Total Other Rate Base Items (1) Thru (11)	\$	(9,274,438) \$	(2,265,600) \$	(2,634,357)

⁽a) Applicant's Schedule B-6

⁽b) Applicant's Workpaper WPB-6.2
(c) Applicant's Schedule B-6 and Staff's Schedule B-7 (Net Plant Allocation Factor)

⁽d) Derived from Staff's Data Request 7

Revenue Requirements Corporate Office Allocation Factors Case No. 07-1112-WS-AIR

Weighted Average	Allocation	(0)	76.48%	14,05%	9,47%	100.00%
Revenues	Allocation	(u)	79.00%	11.99%	9.01%	100.00%
Operating F	Amount Allocatio	(m)	73.20% \$ 26,491,709	4,019,542	3,020,970	33,532,221
ustomers	Allocation	E	73.20% \$	15.32%	11.48%	100.00% \$
Number of C	Amount Allocation	()	42,129	8,816	809'9	57,553
ayroll	Allocation	S	76.81%	12.86%	10.34%	100.00%
O&M P	Amount Allocation	Θ	3,385,295	566,758	455,524	4,407,577
		<u>(£</u>	78.43%\$	17,65%	3.92%	100.00% \$ 4,407,577
Number of E	Amount Allocation	(B)	8	18	4	102
	Allocation	£	74.98%	12.43%	12.59%	100.00%
Net Plant In S	Amount	(e)	55,255,272	9,162,619	9,276,033	73,693,924
		(9	74.69%\$	12.30%	13.01%	100.00% \$
Depreciation	Amount	ত্ত	74.88% \$ 31,001,578	12,38% 5,104,578	5,398,998	41,505,154
Service	Allocation	æ		12.38%	12.74%	100.00% \$ 41,505,154
Gross Plant in Service Depreciation Reserve	Amount	(a)	\$ 86,256,850	14,267,197	14,675,031	\$ 115,199,078
	District		(1) Water A	(2) Water C	(3) Wastewater	(4) Tota!

50.31% 49.69% 9,162,619 9,276,033 18,438,652 44 Water C Wastewater

Case No. 07-1112-WS-AIR Revenue Requirements Proforma Operating Income Statement For The Twelve Months Ending June 30, 2007

			Watı	Water A			Water C	J.		:	Wa	Wastewater	
	! _	Adjusted Revenues &	Staff Proforma	Proforma Revenues &	Applicant Proforma Revenues &	Adjusted Revenues &	Staff Proforma	Proforma Revenues &	Applicant Proforma Revenues &	Adjusted Revenues &	Staff	Proforma Revenues &	Applicant Proforma Revenues &
		Expenses	Adjustments	Expenses	Expenses	Expenses	Adjustments	Expenses	Expenses	Expenses	Adjustments	Expenses	Expenses
		(e)	(e)	(2)	(p)	(e)	(p)	(9)	<u>(F)</u>	(a)	(a)	(2)	(p)
Operating Revenues Water Sales	6 1	25.727.598	3.118.080	28.845.678	28 885 330	3.867.074	1.183.577	5.050.651	5.064.634	3.016.647	1.118.646	4.135.293	4.175.870
Other Operating Revenues	,	764,111	40,242	804,353	683,284	152,468	20,882	173,350	143,501	4,323	1,603	5,926	4,561
Total Operating Revenues		26,491,709	3,158,322	29,650,031	29,568,614	4,019,542	1,204,459	5,224,001	5,208,135	3,020,970	1,120,249	4,141,219	4,180,431
Operating Expenses													
Operation and Maintenance Decreciation		14,675,493 2,471,895	28,551	14,704,044	15,980,523	2,942,474	11,088	2,953,562	2,956,723	1,875,307	10,743	1,886,050 357,631	2,056,970
Taxes, Other Than Income		6,015,051	142,196	6,157,247	5,295,164	1,216,515	56,685	1,273,200	1,095,784	1,171,855	52,702	1,224,557	1,044,282
Federal Income Taxes	1	158,441	985,900	1,144,341	1,402,932	(238,190)	376,152	137,962	190,332	(206,334)	349,332	142,998	180,179
Total Operating Expenses		23,320,880	1,156,647	24,477,527	25,652,319	4,254,993	443,925	4,698,918	4,598,446	3,198,459	412,777	3,611,236	3,602,364
Net Operating Income	₩	3,170,829	2,001,675	5,172,504	3,916,295	(235,451)	760,534	525,083	689'609	(177,489)	707,472	529,983	578,067
Rate Base (e)	₩	46,699,180		46,699,180	48,544,085	6,979,114		6,979,114	7,210,167	6,722,020	•	6,722,020	6,827,361
Rate of Return (f)	ı	6.79%		11.08%	8.07%	-3.37%		7.52%	8.46%	-2.64%	•	7.88%	8.47%

Staff's Schedule C-2.
Staff's Schedule C-1.1
Columns (a) + (b)
Applicant's Schedule C-1
Staff's Schedule B-1
Net Operating Income / Rate Base

Case No. 07-1112-WS-AIR Revenue Requirements <u>Proforma Adjustments</u>

		Water A	Water C	Wastewater
(1)	Proposed Revenue Increase (a)	\$ 3,118,080 \$	1,183,577 \$	1,118,646
(2)	Late Payment Revenue (1) x Rates (b)	40,242	20,882	1,603
(3)	Total Proposed Revenue Increase (1) + (2)	\$ 3,158,322 \$	<u>1,204,459</u> \$	1,120,249
(4)	Uncollectible Accounts Expense (3) x Rates (c)	\$ 28,551 \$	11,088_\$	10,743
(5)	Ohio Gross Receipts Tax (d)	\$ 142,196 \$	56,685_\$	52,702
(6)	Federal Income Tax (e)	\$ 985,900 \$	376,152 \$	349,332

⁽a) Applicant's Schedule E-4

⁽b) Staff's Schedule C-3.2

⁽c) Staff's Schedule C-3.13

⁽d) Staff's Schedule C-3,20a

⁽e) Staff's Schedule C-4

Case No. 07-1112-WS-AIR Revenue Requirements Adjusted Test Year Operating Income

		Water A			Water C			Wastewater	
	Test Year		Adjusted	Test Year		Adjusted	Test Year		Adjusted
	Revenues &	Staff	Revenues &	Revenues &	Staff	Revenues &	Revenues &	Staff	Revenues &
	Expenses	Adjustments	Expenses	Expenses	Adjustments	Expenses	Expenses	Adjustments	Expenses
	(a)	(q)	(0)	(a)	(q)	(0)	(a)	(q)	(c)
Operating Revenues	75 540 004	179 617	26 727 500	200 C		440 500 0	20000	(000 000)	0000
Other Operating Revenues	572,354	191,757	764,111	98,475	53,993	152,468	4,561	(196,230)	3,016,647
Total Operating Revenues	26,121,338	370,371	26,491,709	3,965,549	53,993	4,019,542	3,187,466	(166,496)	3,020,970
Operating Expenses Operation & Maintenance	15,746,777	(1,071,284)	14,675,493	3,329,559	(387,085)	2,942,474	1,583,300	292,007	1,875,307
Depreciation & Amortization	2,941,331	(469,436)	2,471,895	458,103	(123,909)	334,194	433,775	(76,144)	357,631
Taxes, Other Than Income	5,365,967	649,084	6,015,051	1,653,149	(436,634)	1,216,515	284,943	886,912	1,171,855
Federal Income Taxes	(268,903)	427,344	158,441	13,927	(252,117)	(238,190)	(48,088)	(158,246)	(206,334)
Total Operating Expenses	23,785,172	(464,292)	23,320,880	5,454,738	(1,199,745)	4,254,993	2,253,930	944,529	3,198,459
Net Operating Income	\$ 2,336,166	834,663	3,170,829	(1,489,189)	1,253,738	(235,451)	933,536	(1,111,025)	(177,489)

Applicant's Schedule C-2 Staffs Schedule C-3 Columns (a) + (b) @ <u>@</u> ©

Case No. 07-1112-WS-AIR Revenue Requirements Summary of Staff's Adjustments

			Water A	Water C	Wastewater
			(a)	(a)	(a)
	Operating Revenues				
C-3.1	Sales	\$	178,614 \$	\$	(166,258)
C-3.2	Other Operating Revenues		191,757	53,993	(238)
	Total Revenue Adjustments	\$	370,371 \$	53,993 \$	(166,496)
	Operating Expenses				
C-3.3	Labor and Labor Related	\$	(215,090) \$	(268,853) \$	315,803
C-3,4	Purchased Water	*	(72,959)	15,321	0.0,000
C-3.5	Purchased Power		(171,040)	(26,341)	38,350
C-3.6	Chemical		174,551	(15,122)	1,301
C-3.7	Waste Disposal		(83,608)	(,,	.,
C-3.8	Rate Case		(48,183)	(12,482)	(10,710)
C-3.9	Unaccounted for Water		(138,980)	(36,279)	, , ,
C-3.10			(15,034)	(8,863)	6,690
C-3.11			(382,912)	(55,430)	(48,476)
C-3.12	Miscellaneous O&M Expense		113,113	23,513	17,576
C-3.13	Uncollectibles		3,356	496	(1,597)
C-3.14	Tank Painting		54,384	37,414	, , ,
C-3.15	Community Relations and Advertising Expense		(15,179)	(4,442)	(1,938)
C-3.16	Social and Service Clubs Dues Expense		(24,621)	(4,196)	(2,874)
C-3.17	Charitable Contributions Expense		(11,790)	(2,451)	(1,832)
C-3.18	Management Fees		(237,292)	(29,370)	(20,286)
	Total O & M Expenses		(1,071,284)	(387,085)	292,007
C-3.19	Depreciation & Amortization		(469,436)	(123,909)	(76,144)
C-3.20	Taxes Other Than Income		649,084	(436,634)	886,912
C-3.21	Federal Income Taxes		427,344	(252,117)	(158,246)
	Total Expense Adjustments	\$	(464,292) \$	(1,199,745) \$	944,529

⁽a) Staff's Schedules C-3.1 Through C-3.21

Case No. 07-1112-WS-AIR Revenue Requirements Sales Revenue Adjustment

		 Water A	Water C	Wastewater
(1)	Annualized Sales Revenue (a)	\$ 25,727,598 \$	3,867,074 \$	3,016,647
(2)	Test Year Sales Revenue (b)	 25,548,984	3,867,074	3,182,905
(3)	Adjustment (1) - (2)	\$ 178,614 \$	\$	(166,258)

⁽a) Applicant's Schedules E-4, and WPE-4.1(b) Applicant's Schedule C-2

Case No. 07-1112-WS-AIR Revenue Requirements Other Operating Revenue Adjustment

	Late Payment Adjustment	_	Water A	Water C	Wastewater
(1)	Adjusted Base Revenues (a)	\$	25,727,598 \$	3,867,074 \$	3,016,647
(2)	Late Payment Rate (b)		0.012906	0.017643	0.001433
(3)	Late Payment Revenues (1) x (2)		332,040	68,227	4,323
(4)	Test Year Late Payment Revenue (c)		329,747	68,226	4,561
(5)	Adjustment (3) - (4)	\$	2,293_\$	1_\$	(238)
	Other Miscellaneous Adjustments:				
(6)	Adjusted Activation Fees (d)	\$	212,083 \$		
(7)	Test Year Activation Fees (e)		101,506		
(8)	Adjustment (6) - (7)	\$_	110,577 \$		
(9)	Adjusted Reconnection Charges (d)	\$	168,832 \$	70,914	
(10)	Test Year Reconnection Charges (e)		99,311	21,797	
(11)	Adjustment (9) - (10)	\$_	69,521 \$	49,117	
(12)	Adjusted NSF Fees (d)	\$	20,703 \$	7,750	
(13)	Test Year NSF Fees (e)	_	11,337	2,875	
(14)	Adjustment (12) - (13)	\$	9,366 \$	4,875	
(15)	Total Late Payment and Miscellaneous Adjustment (5) + (8) + (11) + (14)	\$ <u></u>	191,757 \$	53,993_\$	(238)

⁽a) Staff's Schedule C-3.1

⁽b) Calculated From Applicant's Schedule E-4, Unadjusted Late Payment Revenues Divided by Unadjusted Water or Sewer Revenues From Applicant's Schedule C-2

⁽c) Applicant's Schedule E-4 (d) Staff's Data Request 12a

⁽e) Applicant's Schedule C-3.3

Case No. 07-1112-WS-AIR Revenue Requirements Labor and Labor Related Expense Adjustment

		_	Water A	Water C	Wastewater
(1)	Adjusted O&M Labor Expense W/O Corporate (a)	\$	3,385,295 \$	566,758 \$	455,524
(2)	Adjusted O&M Labor Expense - Corporate (b)	_	373,955	62,607	50,317
(3)	Total O&M Labor Expense		3,759,250	629,365	505,841
(4)	Test Year Labor Expense (c)	_	3,879,298	781,194	275,377
(5)	Labor Expense Adjustment (3) - (4)		(120,048)	(151,829)	230,464
(6)	Adjusted Group Insurance Expense (a)		820,138	119,518	93,992
(7)	Adjusted Pension Expense (a)		397,655	65,991	53,247
(8)	Adjusted 401k Plan Expense (a)		67,900	12,636	8,331
(9)	Adjusted OPEB Expense (d)		156,871	26,033	21,006
(10)	Adjusted EIP Plan Expense (a)	_			
(11)	Adjusted Labor Related Expense W/O Corporate (6) thru (10)		1,442,564	224,178	176,576
(12)	Adjusted Labor Related Expenses - Corporate (b)	_	128,961	21,590	17,353
(13)	Total Adjusted Labor Related Expenses (11) + (12)		1,571,525	245,768	193,929
(14)	Test year Labor Related Expenses (c)	_	1,666,567	362,792	108,590
(15)	Labor Related Expense Adjustment (13) - (14)		(95,042)	(117,024)	85,339
(16)	Total Labor and Labor Related Expense Adjustment (5) + (15)	\$	(215,090) \$	(268,853) \$	315,803

 ⁽a) Derived From Applicant's WPC-3.3, Using the Latest Employee Levels and Rates
 (b) Staff's Schedule C-3.3a
 (c) Applicant's Schedule C-2
 (d) Derived From Applicant's WPC-3.3, Using Service Cost Amount from the Latest Acturial Valuation Reports

Case No. 07-1112-WS-AIR Revenue Requirements Corporate Office Labor and Labor Related Expenses

		_	Water A	Water C	Wastewater
(1)	Adjusted O&M Labor Expense (a)	\$	486,881 \$	486,881 \$	486,861
(2)	Allocation Factor (b)		76.81%	12.86%	10.34%
(3)	Allocated Corporate O&M Labor Expense (1) x (2)	\$_	373,955 \$	62,607 \$	50,317
(4)	Adjusted Group Insurance Expense (a)		83,385	83,385	83,385
(5)	Adjusted Total OPEB Expense (c)		21,712	21,712	21,712
(6)	Adjusted Total Pension Expense (c)		55,038	55,038	55,038
(7)	Adjusted 401k Plan Expense (a)	_	7,769	7,769	7,769
(8)	Total Adjusted Labor Related Expense (4) Thru (7)		167,904	167,904	167,904
(9)	Allocation Factor (b)	_	76.81%	12.86%	10.34%
(10)	Allocated Corporate Labor Related Expenses (9) x (10)	\$	128,961 \$	21,590 \$	17,353

⁽a) Derived From Applicant's WPC-3.3, Using The Latest Employee Levels and Rates (b) Staff's Schedule B-7 O&M Payroll Allocation Factor

⁽c) Derived From Applicant's WPC-3.3, Using Service Cost Amount from the Latest Acturial Valuation Reports

Case No. 07-1112-WS-AIR Revenue Requirements Purchased Water Expense Adjustment

		 Water A	Water C	Wastewater
(1)	Lawrence County District Purchased Water Expense (a)	\$ 785,574 \$		
(2)	Marion District (Preble County) Purchased Water Expense (a)	38,101		
(3)	Portage County District Purchased Water Expense (a)	 	194,926	
(4)	Total Purchased Water Expense (1) + (2) + (3)	823,675	194,926	
(5)	Test Year Purchased Water Expense (b)	 896,634	179,605	
(6)	Adjustment (4) - (5)	\$ (72,959) \$	15,321	

⁽a) Staff's Workpaper WPC-3.4(b) Applicant's Schedule C-2

Case No. 07-1112-WS-AIR Revenue Requirements Purchased Power Expense Adjustment

			Water A	Water C	Wastewater
(1)	Adjusted Fuel & Power Expense (a)	\$	899,514 \$	149,251 \$	167,855
(2)	Test Year Fuel & Power Expense (b)	_	1,070,554	175,592	129,505
(3)	Adjustement (1) - (2)	\$	(171,040) \$	(26,341) \$	38,350

⁽a) Applicant's Schedule C-3.6

⁽b) Applicant's Schedule C-2

Case No. 07-1112-WS-AIR Revenue Requirements **Chemical Expense Adjustment**

			Water A	Water C	Wastewater
(1)	Adjusted Chemical Expense (a)	\$	1,165,599 \$	171,233 \$	19,000
(2)	Test Year Expense (b)	Manage of the Control	991,048	186,355	17,699
(3)	Adjustment (1) - (2)	\$	174,551 \$	(15,122) \$	1,301

⁽a) Applicant's Schedule C-3.7(b) Applicant's Schedule C-2

Case No. 07-1112-WS-AIR **Revenue Requirements** Waste Disposal Expense Adjustment

	_	Water A	Water C	Wastewater
(1) Waste Disposal Expense (a)	\$	85,990 \$	31,923 \$	
(2) Sludge Hauling Expense (a)	_			138,180
(3) Total Waste Disposal and Sludge Hauling Expense (1) + (2)		85,990	31,923	138,180
(4) Test Year Waste Disposal and Sludge Hauling Expense (b)		169,598	31,923	138,180
(5) Adjustment (3) - (4)	\$_	(83,608) \$	\$_	

⁽a) Staff's Workpaper WPC-3.7(b) Applicant's Schedule WPC-2.1

Case No. 07-1112-WS-AIR Revenue Requirements Rate Case Expense Adjustment

			Water A	Water C	Wastewater
(1)	Total Estimated Rate Case Expense (a)	\$	400,000 \$	400,000 \$	400,000
(2)	Allocation Factor (b)	_	76.48%	14.05%	9.47%
(3)	Allocated Rate Case Expense (1) x (2)		305,937	56,196	37,868
(4)	Amortization Period		3	3	3
(5)	Annual Amortization of Rate Case Expense (3) / (4)		101,979	18,732	12,623
(6)	Test Year Expense (c)		150,162	31,214	23,333
(7)	Adjustment (5) - (6)	\$_	(48,183) \$	(12,482) \$	(10,710)

⁽a)

Staff's Workpaper WPC-3.8
Staff's Schedule B-7 - Weighted Average Allocation Factor
Applicant's Workpaper WPC-2.1 (b)

⁽c)

Case No. 07-1112-WS-AIR **Revenue Requirements** Unaccounted for Water Expense Adjustment

		-	Water A	Water C	Wastewater
(1)	System Delivery (a)	\$	4,652,712 \$	502,571	
(2)	Sales & Company Use (a)	_	3,667,877	381,543	
(3)	Unaccounted for Water (1) - (2)		984,835	121,028	
(4)	Unaccounted for Percentage (3) / (1)		21.1700%	24.0800%	
(5)	Percentage Allowed (b)		15.00%	15.00%	
(6)	Reciprocal of Allowed Percentage (b)		85.00%	85.00%	
(7)	Allowed System Delivery (2) / 85%		4,315,149	448,874	
(8)	Disallowed Unaccounted for Water (7) - (1)		(337,563)	(53,697)	
(9)	Fuel & Power Cost (1,000 gallons) (c)		\$	0.2970	
(10)	Chemicals Cost (1,000 gallons) (d)		\$	0.3786	
(11)	Fuel & Power Disallowed Cost (8) x (9)	(e)	(54,222)	(15,948)	
(12)	Chemicals Disallowed Cost (8) x (10)	(e) _	(84,758)	(20,331)	
(13)	Total Disallowed Cost (11) + (12)	\$ _	(138,980) \$	(36,279)	

⁽a) Staff's Workpaper WPC-3.9(b) Applicant's Schedule C-3.6, pg. 3 of 3

 ⁽c) Derived from Applicant's Schedule C-3.6, page 3 of 3; divided by Franklin System Delivery
 (d) Derived from Applicant's Schedule C-3.7, page 3 of 3; divided by Franklin System Delivery

⁽e) For Water A - Staff's Workpaper WPC-3.9

Case No. 07-1112-WS-AIR Revenue Requirements Insurance Other than Group Expense Adjustment

			Water A	Water C	Wastewater
	Worker's Compensation				
(1)	Total Adjusted Worker's Compensation Expense (a)	\$	143,200 \$	143,200 \$	143,200
(2)	Allocation Factor - Number of Employees (b)	_	78.43%	17.65%	3.92%
(3)	Adjusted Worker's Compensation Expense (1) x (2)		112,314	25,271	5,616
(4)	O&M Ratio (a)	_	87.85%	87.85%	87.85%
(5)	Adjusted Worker's Compensation (3) x (4)		98,668	22,201	4,934
	Property Insurance				
(6)	Adjusted Property Insurance Expense (c)		80,362	80,362	80,362
(7)	Allocation Factor - Net Plant (b)	_	74.98%	12.43%	12.59%
(8)	Property Insurance Expense (6) x (7)		60,255	9,992	10,115
	General Insurance and Supplemental Payments				
(9)	Adjusted General Insurance Expense (d)		322,692	322,692	322,692
(10)	Allocation Factor - Net Plant (b)	_	74.98%	12.43%	12.59%
(11)	General Insurance Expense (10) x (11)		241,953	40,121	40,618
	Broker Fees:				
(12)	Broker Fees		3,970	3,970	3,970
(13)	Allocation Factor - Net Plant (b)	_	74.98%	12.43%	12.59%
(14)	Adjusted Broker Fees (12) x (13)		2,977	494	500
(15)	Total Insurance Other Than Group Exp. $(5) + (8) + (11) + (14)$		403,853	72,808	56,167
(16)	Test Year Expense (e)	_	418,887	81,671	49,477
(17)	Adjustment (15) - (16)	\$_	(15,034) \$	(8,863) \$	6,690

- (a) Applicant's Schedule WPC-3.13
- (b) Staff's Schedule B-7
- (c) Staff's Data Request 64
 (d) Derived from Staff's Data Request 64
- (e) Applicant's Schedule C-3.13

Case No. 07-1112-WS-AIR Revenue Requirements Negative Salvage Adjustment

		 Water A	Water C	Wastewater
(1)	Net Negative Salvage Costs Adjustments (a)	\$ (382,912) \$	(55,430) \$	(48,476)

(a) Applicant's Schedule C-3.18

Case No. 07-1112-WS-AIR Revenue Requirements Miscellaneous O & M Expense Adjustment

		_	Water A	Water C	Wastewater	Total
(1)	NAWC 2008 Dues Adjustment (a)	\$	(1,120) \$	(232) \$	(174) \$	(1,526)
(2)	Nondeductible Penalties Expense (b)		(381)	(79)	(59)	(519)
(3)	Orcomm Software Amortization (c)	_	114,614	23,824	17,809	156,247
(4)	Total O&M Expense Adjustment (1) thru (3)	\$_	113,113 \$	23,513 \$	17,576 \$	154,202

⁽a) Staff's Workpaper WP C-3.12a
(b) Applicant's Schedule C-3.17 page 4 of 5
(c) Applicant's Schedule C-3.17 page 5 of 5

Case No. 07-1112-WS-AIR Revenue Requirements Uncollectible Expense Adjustment

		_	Water A	Water C	Wastewater
(1)	Adjusted Operating Revenues (a)	\$	26,491,709 \$	4,019,542 \$	3,020,970
(2)	Uncollectible Accounts Ratio (b)	_	0.9040%	0.9206%	0.9590%
(3)	Adjusted Uncollectible Accounts Expense (1) x (2)		239,485	37,004	28,971
(4)	Test Year Uncollectible Expense (c)	_	236,129	36,508	30,568
(5)	Adjustment (3) - (4)	\$_	3,356 \$	496_\$	(1,597)

⁽a) Staff's Schedule C-2

⁽b) Calculated From Applicant's Schedule WPC-2, Uncollectible Expense / Operating Revenues. Water A- \$236,129/\$26,121,338; Water C- \$36,508/\$3,965,550; Wastewater- \$30,568/\$3,187,466

⁽c) Applicant's Schedule C-3.14

Case No. 07-1112-WS-AIR Revenue Requirements Tank Painting Expense Adjustment

		Water A		Water C	Wastewater
(1)	Adjusted Tank Painting Expense (a)	\$	183,576 \$	49,400 \$	
(2)	Test Year Tank Painting Expense (b)		129,192	11,986	
(3)	Adjustment (1) - (2)	\$	54,384 \$	<u>37,414</u> \$	

⁽a) Staff's Workpaper WPC-3.14(b) Applicant's Workpaper WPC-2.1

Case No. 07-1112-WS-AIR Revenue Requirements Community Relations and Advertising Expense Adjustment

		-	Water A	Water C		Wastewater
(1)	Adjusted Advertising Expense (a)	\$	9,255	\$ 1,692	\$	1,146
(2)	Test Year Advertising Expense (b)		14,455	3,295	. –	2,078
(3)	Adjustments (1) - (2)	\$ _	(5,200)	\$(1,603 <u>)</u>	. \$ _	(932)
(4)	Adjusted Community Relations Expense (a)	\$,	\$	¢	
(4)	Adjusted Community Relations Expense (a)	Ψ	`	Ψ	\$	
(5)	Test Year Community Expense (b)		9,979	2,839	. –	1,006
(6)	Adjustment (4) - (5)	\$_	(9,979)	\$(2,839)	\$_	(1,006)
(7)	Total Advertising and Community Relations Expense Adjustment (3) + (6)	\$	(15,179)	\$(4,442)	.\$_	(1,938)

⁽a) Staff's WPC-3.15

⁽b) Applicant's Schedule C-7

Case No. 07-1112-WS-AIR Revenue Requirements Social and Service Club Dues Expense Adjustment

			Water A	Water C	Wastewater
(1)	Adjusted Social and Service Club Dues (a)	\$	2,902 \$	64 \$	45
(2)	Test Year Social and Service Club Dues (b)	_	27,523	4,260	2,919
(3)	Adjustments (1) - (2)	\$	(24,621) \$	(4,196) \$	(2,874)

⁽a) Derived from Applicant's Response to Staff's Data Request 51, OCC RPD 29 and Staff's WPC-3.16

⁽b) Applicant's Schedule C-5

Case No. 07-1112-WS-AIR Revenue Requirements Charitable Contributions Expense Adjustment

		 Water A	Water C	<u>Wastewater</u>
(1)	Elimination of Test Year Charitable Contributions (a)	\$ (11,790) \$	(2,451) \$	(1,832)

(a) Applicant's Schedule C-6 and WPC-2.1

Case No. 07-1112-WS-AIR Revenue Requirements Management Fees Expense Adjustment

		 Water A	Water C	<u> Wastewater</u>	
(1)	Adjusted Management Fees (a)	\$ 2,610,646 \$	562,560 \$	422,190	
(2)	Test Year Management Fees (b)	 2,847,938	591,930	442,476	
(3)	Adjustment (1) - (2)	\$ (237,292) \$	(29,370) \$	(20,286)	

⁽a) Applicant's Schedule C-3.9(b) Applicant's Schedule C-2

Case No. 07-1112-WS-AIR Revenue Requirements **Depreciation and Amortization Expense Adjustment**

			Water A	Water C	Wastewater
(1)	Adjusted Depreciation Expense (a)	\$	2,342,129 \$	332,938 \$	316,708
(2)	Test Year Depreciation Expense (b)		2,842,246	456,283	392,461
(3)	Depreciation Expense Adjustment (1) - (2)		(500,117)	(123,345)	(75,753)
(4)	Amortization of Limited Utility Plant (c)		10,499		
(5)	Amortization of Reserve Deficiency (d)				
(6)	Amortization of Regulatory Asset - AFUDC (c)		15,600		
(7)	Amortization of Regulatory Asset - Other (c)		6,108		
(8)	Amortization of Deferred Depreciation Expense (e)		2,172	<u></u>	
(9)	Total Amortization Expense (4) Thru (8)		34,379		
(10)	Test Year Amortization Expense (b)	_	3,698	564	391_
(11)	Amortization Expense Adjustment (9) - (10)		30,681	(564)	(391)
(12)	Total Adjustment (3) + (11)	\$	(469,436) \$	(123,909) \$	(76,144)

⁽a) Staff's schedules B-3.2a, B-3.2b and B-3.2c
(b) Applicant's Schedule C-2
(c) Applicant's Schedules C-3.19 and C-3.20
(d) Refer to Text

⁽e) Staff's Data Request 7

Case No. 07-1112-WS-AIR Revenue Requirements <u>Summary of Taxes Other Than Income Adjustment</u>

		Schedule Reference	Water A	Water C	Wastewater
(1)	Ohio Gross Receipts Tax	C-3.20a \$	1,194,608 \$	189,028 \$	142,013
(2)	Property Taxes	C-3.20b	4,416,664	942,448	968,626
(3)	Payroll Taxes	C-3.20c	308,311	51,397	39,745
(4)	PUCO and OCC Assessments	C-3.20d	36,892	5,597	4,207
(5)	Other taxes and Licenses	C-3.20e	58,576	28,045	17,264
(6)	Total Taxes Other Than Income Taxes (1) Thru (5)		6,015,051	1,216,515	1,171,855
(7)	Test Year Taxes Other Than Income Taxes (a)		5,365,967	1,653,149	284,943
(8)	Adjustment (6) - (7)	\$	649,084_\$_	(436,634) \$	886,912

⁽a) Applicant's Schedule C-2

Case No. 07-1112-WS-AIR
Revenue Requirements
Calculation of Ohio Gross Receipts Taxes

			Water A	¥	Water C	S is	Wastewater	ater
			Adjusted Operating	Pro forma Operating	Adjusted Operating	Pro forma Operating	Adjusted Operating	Pro forma Operating
		ı	Income	Income	Income	Income	Income	Income
£	(1) Adjusted Operating Income (a)	₩.	26,491,709 \$	29,650,031 \$	4,019,542 \$	5,224,001 \$	3,020,970 \$	4,141,219
(2)	(2) Less: Uncollectible Accounts Expense (1) x Rates (b)		239,485	268,036	37,004	48,092	28,971	39,714
(3)	(3) Less: Sales for Resale (c)		1,082,826	1,219,008				
4	(4) Add: Customer Advances	ł						
ତ୍ର 174	7 (5) Total Ohio Taxable Receipts (1) thru (4)		25,169,398	28,162,987	3,982,538	5,175,909	2,991,999	4,101,505
9	Less: \$25,000 Deduction (d)	ł	19,751	19,751	2,997	2,997	2,252	2,252
.	Net Taxable Receipts (5) - (6)		25,149,647	28,143,236	3,979,541	5,172,912	2,989,747	4,099,253
(8)	(8) Tax Rate	ļ	4.75%	4.75%	4.75%	4.75%	4.75%	4.75%
6)	Ohio Gross Receipts Tax (7) x (8)	•	1,194,608 \$	1,336,804 \$	189,028 \$	245,713 \$	142,013 \$	194,715

³⁰⁰

Staff's Schedule C-3.13
Staff's Schedule C-3.13
Applicant's Schedule E-4
Staff's Schedule B-7 - Operating Revenues Allocation Factor

Case No. 07-1112-WS-AIR Revenue Requirements Calculation of Property Taxes

		-	Water A	Water C	Wastewater
(1)	Jurisdictional Plant in Service at 06/30/2007 (a)	\$	87,830,899 \$	14,490,188 \$	14,904,397
(2)	Material and Supplies (b)		229,693	15,160	3,870
(3)	Total (1) + (2)		88,060,592	14,505,348	14,908,267
(4)	Percentage of Assessment Value to the Total Cost (c)		74.48%	61.37%	61.37%
(5)	Property Subject to Ohio Property Taxes (3) x (4)		65,587,529	8,901,932	9,149,203
(6)	Tax Rate per \$1,000 (d)	_	67.34	105.87	105.87
(7)	Ohio Property Tax (5) x (6)	\$_	4,416,664 \$	942,448 \$	968,626

⁽a) Staff's Schedules B-2.1a, B-2.1b, and B-2.1c

⁽b) Applicant's Schedule B-5

⁽c) Staff's Workpaper WPC-3.20b1

⁽d) Applicant's Updated WPC-3.21

Case No. 07-1112-WS-AIR **Revenue Requirements** Calculation of Payroll Taxes

			Water A	Water C	Wastewater
(1)	F.I.C.A (a)	\$	215,786 \$	36,095 \$	27,846
(2)	Federal Unemployment Taxes (a)		4,049	644	494
(3)	State Unemployment Taxes (a)		17,570	2,795	2,143
(4)	Medicare (a)		50,466	8,441	6,512
(5)	Total Payroll Taxes W/O Corporate (1) Thru (4)		287,871	47,975	36,995
	Corporate Payroll Taxes				
(6)	F.I.C.A (a)		19,706	19,706	19,706
(7)	Federal Unemployment Taxes (a)		257	257	257
(8)	State Unemployment Taxes (a)		1,115	1,115	1,115
(9)	Medicare (a)	_	5,534	5,534	5,534
(10)	Total Corporate Payroll Taxes (6) Thru (9)		26,612	26,612	26,612
(11)	Allocation Factor (b)		76.81%	12.86%	10.34%
(12)	Allocated Corporate Payroll Taxes (10) x (11)		20,440	3,422	2,750
(13)	Total Payroll Taxes (5) + (12)	\$	308,311 \$	51,397_\$	39,745

Derived from Applicant's Schedule WPC-3.3, Reflecting Latest Known Employee Levels Staff's Schedule B-7 - O&M Payroll Allocation Factor (a)

⁽b)

Case No. 07-1112-WS-AIR **Revenue Requirements** Calculation of PUCO and OCC Assessments

		 Water A	Water C		Wastewater
(1)	PUCO Maintenance Assessment (a)	\$ 37,185 \$	37,185	\$	37,185
(2)	OCC Fund Assessment (a)	 9,511	9,51 1	_	9,511
(3)	Total Assessment (1) + (2)	46,696	46,696		46,696
(4)	Allocation Factor (b)	 79.00%	11.99%		9.01%
(5)	Allocated Assessment (3) x (4)	\$ 36,892 \$	5,597	.\$ <u>_</u>	4,207

Latest Known Assessments

⁽a) (b) Staff's Schedule B-7 - Operating Revenues Allocation Factor

Case No. 07-1112-WS-AIR Revenue Requirements Other Taxes and Licenses

		 Water A	Water C	Wastewater
(1)	Other Taxes and Licenses (a)	\$ 58,576_\$	28,045 \$	17,264

Case No. 07-1112-WS-AIR Revenue Requirements Federal Income Tax Expense Adjustment

			Water A	Water C	Wastewater
(1)	Adjusted Federal Income Taxes (a)	\$	696,247 \$	(238,190) \$	(206,334)
(2)	Test Year Federal Income Taxes (b)		268,903	13,927	(48,088)
(3)	Adjustment (1) - (2)	\$	427,344_\$_	(252,117) \$	(158,246)

⁽a) Staff's Schedule C-4(b) Applicant's Schedule C-2

Case No. 07-1112-WS-AIR Revenue Requirements Calculation of Federal Income Taxes

			Water	A	Water	r C	Waste	water
		_	Adjusted Operating Income	Proforma Operating Income	Adjusted Operating Income	Proforma Operating Income	Adjusted Operating Income	Proforma Operating Income
(1)	Operating Income Before FIT (a)	\$	3,329,270 \$	6,316,845 \$	(473,641) \$	663,045 \$	(383,823) \$	672,981
	Reconciling Items:							
(2)	Interest Charges (b)		(1,667,161)	(1,667,161)	(249,154)	(249,154)	(239,976)	(239,976)
(3)	Book Depreciation (c)		2,342,129	2,342,129	332,938	332,938	316,708	316,708
(4)	Tax Accelerated Depreciation (d)	-	2,770,119	2,770,119	1,068,501	1,068,501	171,228	171,228
(5)	Excess of Tax Over Book Depreciation (3) - (4)		(427,990)	(427,990)	(735,563)	(735,563)	145,480	145,480
	Other Reconciling Items:							
(6) (7)	Taxable Meals and Entertainment (d) Amortization of Deferred ITC (d)		8,437 (16,581)	8,437 (16,581)	1,188	1,188	287	287
(8)	Total Other Reconciling Items (6) + (7)	_	(8,144)	(8,144)	1,188	1,188	287	287
(9)	Total Reconciling Items (2) + (5) + (8)		(2,103,295)	(2,103,295)	(983,529)	(983,529)	(94,209)	(94,209)
(10)	Federal Taxable Income (1) + (9)		1,225,975	4,213,550	(1,457,170)	(320,484)	(478,032)	578,772
	Federal Income Taxes							
(11)	First \$38,242 x 15%		5,736	5,736	(1,054)	(1,054)	(710)	710
	Next \$19,121 x 25%		4,780	4,780	(878)	(878)	(592)	592
	Next \$19,121 x 33%		6,310	6,310	(1,159)	(1,159)	(781)	781
(14)			70,098	70,098	(12,876)	(12,876)	(8,676)	8,676
,	Next \$7,392,198 x 33%		320,018	1,305,918	(448,083)	(90,229)	(147,285)	180,529
	Next \$3,824,210 x 35%			, ,	(18,298)		` ' '	•
(17)					• - ,			
	Excess of Taxable Income Over \$14,022,103 x 35%	_						·
(19)	Federal Income Taxes (11) Through (18)		406,942	1,392,842	(482,348)	(106,196)	(158,044)	191,288
	Deferred Income Taxes:							
	Tax Accelerated Depreciation (d)		2,770,119	2,770,119	1,068,501	1,068,501	171,228	171,228
(21)	Tax Straight Line Depreciation (c)	-	2,342,129	2,342,129	332,938	332,938	316,708	316,708
(22)	Excess of Tax Accelerated over Tax S/L Deprec. (20) - (21)		427,990	427,990	735,563	735,563	(145,480)	(145,480)
	Deferred @0.33%		142,064	142,064	244,158	244,158	(48,290)	(48,290)
	Other Deferred Taxes:							
(24)	Amortization of Prior Years ITC (d)		(20,440)	(20,440)				
	Amortization of ITC (d)		7,154	7,154				
	Amortization of Regulatory Assets/Liabilities (d)		243,222	243,222				
(27)	Amortization of Regulatory Assets/Liabilities (e)	_	(82,695)	(82,695)	 -			
(28)	Total Other Deferred Taxes (24) Thru (27)		147,241	147,241				
(29)	Total Deferred Taxes (23) + (28)	_	289,305	289,305	244,158	244,158	(48,290)	(48,290)
(30)	Total Federal Income Taxes (19) + (29)	\$ _	696,247 \$	1,682,147 \$	(238,190) \$	137,962 \$	(206,334) \$	142,998

⁽a) Staff's Schedule C-1
(b) Staff's Schedule B-1 Rate Base x Weighted Cost of Debt
(c) Staff's Schedule C-3.23, Lines (1) + (5)
(d) Applicant's Schedule C-4
(e) Staff's Schedule C-4, Line (26) x 34%

Schedule D-1

Rate of Return Summary Ohio American Water Company Capital Structure as of June 30, 2007

	Amount \$	% of Total	% Cost	Weighted Cost %
Long Term Debt	\$50,008,664	57.85%	6.17%	3.57%
Preferred Stock	\$1,159,583	1.34%	8.48%	0.11%
Common Equity	\$35,279,148	40.81%	10.48% -11.52%	4.28% -4.70%
Total Capital	\$86,447,395	100.00%		7.96% -8.38%

Schedule D-1.1

Equity Issuance Cost Adjustment Ohio American Water Company June 30, 2007

(1) Retained Earnings ¹	\$74,256
(2) Total Common Equity ²	\$35,279,148
(3) Ratio of (1) to (2)	0.68833
(4) Generic Issuance Cost, f	3.50%
(5) External Equity Ratio, w [1.0 - (3)]	0.99790
(6) Net Adjustment Factor, $(w/(1 - f)) + (1 - w)$	1.03619
(7) Low End Equity Cost [10.12% x (6)]	10.48%
(8) High End Equity Cost [11.12% x (6)]	11.52%

Sources:

- 1 Ohio American Water Company Equity Roll Forward, June 2007
- 2 Applicant's Schedule D-1

Ohio American Water Company Cost of Long Term Debt

	Interest <u>Rate</u>	Date <u>Issued</u>	Date <u>Maturity</u>	Face Amount Outstanding	Jnamortizec Discount) or Premium	Unamortizec Unamortized Unamortized (Discount) or Debt Gain or Premium Expense (Loss)	namortized Gain or (Loss)	r Years To <u>Maturity</u>	Carrying <u>Value</u>	Interest Cost
General Mortgage Bond		4/19/1996	4/1/2026	\$5,000,000	\$0	\$46,411	\$0	18.753	\$4,953,589	\$349,975
	7.18%	2/7/1997	2/1/2027	4,500,000	0	34,729	0	19,586	4,465,271	324,873
	6.36%	5/21/1998	5/1/2008	3,000,000	0	4,775	0	0.836	2,995,225	196,511
	7.95%	2/15/2000	2/1/2012	4,200,000	0	23,044	0	4,586	4,176,956	338,925
Debt Issued by AWCC:	2.39%	1/31/2007	12/21/2013	12,300,000	0	38,502	0	6,475	12,261,498	668,916
	5.62%	1/31/2007	12/21/2018	16,700,000	0	53,549	0	11,475	16,646,451	943,207
	5.77%	2/15/2007	12/21/2021	2,000,000	0	6,488	0	14,475	1,993,512	115,848
Long Term Debt Series				2,525,000	0	8,838	0			146,135
				50,225,000	0	216,336	0	l	50,008,664	3,084,390

Source: Applicant's Schedule D-3

6.17%

Date	Close 10Yr Yld (%)	Close 30 Yr Yid(%)
21-Mar-07	4.52	4.7
22-Mar-07	4.59	4.78
23-Mar-07	4.61	4.8
26-Mar-07	4.59	4.78
27-Mar-07	4.61	4.81
28-Mar-07	4.62	4.83
29-Mar-07	4.63	4.83
30-Mar-07	4.65	4.85
2-Apr-07	4.64	4.84
3-Apr-07	4.66	4.85
4-Apr-07	4.65	4.84
5-Apr-07	4.67	4.87
9-Apr-07	4.74	4.92
10-Apr-07	4.72	4.91
11-Apr-07	4.74	4.91
12-Apr-07	4.74	4.91
13-Apr-07	4.76	4.93
16-Apr-07	4.74	4.89
17-Apr-07	4.69	4.85
18-Apr-07	4.65	4.82
19-Apr-07	4.67	4.84
20-Apr-07	4.67	4.84
23-Apr-07	4.65	4.83
24-Apr-07	4.62	4.8
25-Apr-07	4.65	4.83
26-Apr-07	4.68	4.87
27-Apr-07	4.7	4.89
30-Apr-07	4.63	4.82
1-May-07	4.64	4.82
2-May-07	4.65	4.82
3-May-07	4.67	4.84
4-May-07	4.64	4.8
7-May-07	4.64	4.79
8-May-07	4.63	4.8
9-May-07	4.67	4.84
10-May-07	4.65	4.83
11-May-07	4.67	4.85
14-May-07	4.69	4.86
15-May-07	4.71	4.88
16-May-07 17-Maγ-07	4.71 4.76	4.87
17-May-07 18-May-07	4.76	4.91 4.96
21-May-07	4.0 4.79	4.94
22-May-07	4.79 4.83	4.98 4.98
23-May-07	4.86	4.96 5.01
24-May-07	4.86	5.01 5.01
27-IVIAY-UI	4.00	5.01

Date	Close 10Yr Yld (%)	Close 30 Yr Yld(%)
25-May-07	4.86	5.01
29-May-07	4.88	5.01
30-May-07	4.88	5.01
31-May-07	4.89	5.01
1-Jun-07	4.96	5.06
4-Jun-07	4,93	5.02
5-Jun-07	4.98	5.02 5.07
6-Jun-07	4.97	
7-Jun-07	5.1	5.08
8-Jun-07	5.12	5.2
11-Jun-07	5.14	5.22
12-Jun-07	5.25	5.24
13-Jun-07		5.36
	5.2 5.22	5.28
14-Jun-07		5.29
15-Jun-07	5.17	5.26
18-Jun-07	5.14	5.25
19-Jun-07	5.09	5.2
20-Jun-07	5.12	5.23
21-Jun-07	5.16	5.28
22-Jun-07	5.14	5.26
25-Jun-07	5.08	5.2
26-Jun-07	5.1	5.22
27-Jun-07	5.07	5.19
28-Jun-07	5.12	5.22
29-Jun-07	5.03	5.13
2-Jul-07	5	5.1
3-Jul-07	5.05	5.15
5-Jul - 07	5.14	5.24
6-Jul-07	5.2	5.28
9-Jul-07	5.16	5.25
10-Jul-07	5.04	5.13
11-Jul-07	5.08	5.18
12-Jul - 07	5.12	5.21
13-Jul-07	5.11	5.19
16-Jul-07	5.04	5.13
17-Jul-07	5.08	5.16
18-Jul-07	5.01	5.1
19-Jul-07	5.03	5.12
20-Jul-07	4.96	5.06
23-Jul-07	4.96	5.07
24-Jul-07	4.94	5.06
25-Jul-07	4.9	5.03
26-Jul-07	4.78	4.95
27-Jul-07	4.79	4.95
30-Jul-07	4.8	4.96
31-Jul-07	4.77	4.92

<u>Date</u>	Close 10Yr Yid (%)	Close 30 Yr Yld(%)
1-Aug-07	4.76	4.91
2-Aug-07	4.75	4.9
3-Aug-07	4.7	4.87
6-Aug-07	4.73	4.91
7-Aug-07	4.74	4.9
8-Aug-07	4.86	5.02
9-Aug-07	4.79	5.03
10-Aug-07	4.78	5.01
13-Aug-07	4.78	5.01
14-Aug-07	4.73	4.99
15-Aug-07	4.71	5.01
16-Aug-07	4.6	4.93
17-Aug-07	4.67	5
20-Aug-07	4.63	4.97
21-Aug-07	4.59	4.94
22-Aug-07	4.62	4.95
23-Aug-07	4.62	4.92
24-Aug-07	4.63	4.9
27-Aug-07	4.6	4.86
28-Aug-07	4.53	4.86
29-Aug-07	4.55	4.88
30-Aug-07	4.5	4.82
31-Aug-07	4.54	4.83
4-Sep-07	4.56	4.84
5-Sep-07	4.47	4.78
6-Sep-07	4.5	4.79
7-Sep-07	4.37	4.69
10-Sep-07	4.32	4.64
11-Sep-07	4.36	4.65
12-Sep-07	4.41	4.69
13-Sep-07	4.48	4.74
14-Sep-07	4.46	4.72
17-Sep-07	4.47	4.71
18-Sep-07	4.48	4.76
19-Sep-07	4.52	4.82
20-Sep-07	4.67	4.94
21-Sep-07	4.63	4.89
24-Sep-07	4,62	4.88
25-Sep-07	4.61	4.89
26-Sep-07	4.62	4.89
27-Sep-07	4.57	4.84
28-Sep-07	4.58	4.83
1-Oct-07	4.56	4.8
2-Oct-07	4.53	4.78
3-Oct-07	4.54	4.79
4-Oct-07	4.52	4.77
5-Oct-07	4.64	4.87
8-Oct-07	4.6 4	4.86
9-Oct-07	4.65	4.86
10-Oct-07	4.65	4.86
		

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<u>Date</u>	Close 10Yr Yld (%)	Close 30 Yr Yld(%)
11-Oct-07	4.66	4.88
12-Oct-07	4.69	4.91
15-Oct-07	4.67	4.91
16-Oct-07	4.66	4.91
17-Oct-07	4.55	4.81
18-Oct-07	4.5	4.78
19-Oct-07	4.4	4.69
22-Oct-07	4.39	4.67
23-Oct-07	4.41	4.69
24-Oct-07	4.33	4.64
25-Oct-07	4.35	4.66
26-Oct-07	4.39	4.68
29-Oct-07	4.38	4.66
30-Oct-07	4.38	4.67
31-Oct-07	4.47	4.75
1-Nov-07	4.36	4.65
2-Nov-07	4.29	4.59
5-Nov-07	4.32	4.62
6-Nov-07	4.36	4.65
7-Nov-07	4.33	4.67
8-Nov-07	4.27	4.66
9-Nov-07	4.22	4.6
12-Nov-07	4.21	4.59
13-Nov-07	4.26	4.61
14-Nov-07	4.27	4.6
15-Nov-07	4.16	4.53
16-Nov-07	4.15	4.52
19-Nov-07	4.08	4.48
20-Nov-07	4.05	4.48
21-Nov-07	4.02	4.47
23-Nov-07	4.01	4.44
26-Nov-07	3.85	4.28
27-Nov-07	3.94	4.36
28-Nov-07	4.03	4.41
29-Nov-07 30-Nov-07	3.94 3.97	4.35 4.4
3-Nov-07 3-Dec-07	3.89	4.4
3-Dec-07 4-Dec-07	3.89	4.35
5-Dec-07	3.91	4.39
6-Dec-07	3. 3 {	4.48
7-Dec-07	4.12	4.59
10-Dec-07	4.15	4.61
11-Dec-07	3.99	4.48
12-Dec-07	4.08	4.53
13-Dec-07	4.17	4.61
14-Dec-07	4.23	4.66
17-Dec-07	4.19	4.62
18-Dec-07	4.13	4.54
19-Dec-07	4.07	4.49
20-Dec-07	4.03	4.45
21-Dec-07	4.17	4.57
₹1-De0-01	7.11	7.01

Date	Close 10Yr Yld (%)	Close 30 Yr Yld(%)
24-Dec-07	4.21	4.62
26-Dec-07	4.28	4.69
27-Dec-07	4.2	4.61
28-Dec-07	4.1	4.51
31-Dec-07	4.03	4.46
2-Jan-08	3.9	4.35
3-Jan-08	3.9	4.37
4-Jan-08	3.85	4.36
7-Jan-08	3.84	4.34
8-Jan-08	3.84	4.36
9-Jan-08	3.79	4.32
10-Jan-08	3.89	4.44
11-Jan-08	3.81	4.39
14-Jan-08	3.79	4.37
15-Jan-08	3.7	4.29
16-Jan-08	3.71	4.32
17-Jan-08	3.64	4.25
18-Jan-08	3.65	4.3
22-Jan-08	3.48	4.23
23-Jan-08	3.43	4.18
24-Jan-08	3.64	4.35
25-Jan-08	3.58	4.28
28-Jan-08	3.59	4.28
29-Jan-08	3.66	4.34
30-Jan-08	3.73	4.43
31-Jan-08	3.64	4.35
1 - Feb-08	3.6	4.32
4-Feb-08	3.64	4.37
5-Feb-08	3.59	4.34
6-Feb-08	3.61	4.37
7-Feb-08	3.74	4.5
8-Feb-08	3.65	4.44
11-Feb-08	3.62	4.41
12-Feb-08	3.68	4.46
13-Feb-08	3.69	4.51
14-Feb-08	3.82	4.65
15-Feb-08	3.78	4.59
19-Feb-08	3.88	4.66
20-Feb-08	3.92	4.64
21-Feb-08	3.78	4.55
22-Feb-08	3.79	4.58
25-Feb-08	3.9	4.66
26-Feb-08	3.86	4.66
27-Feb-08	3.85	4.65
28-Feb-08	3.71	4.55
29-Feb-08	3.53	4.42
3-Mar-08	3.53	4.43

Date	Close 10Yr Yld (%)	Close 30 Yr Yld(%)
4-Mar-08	3.58	4.48
5-Mar-08	3.69	4,61
6-Mar-08	3.62	4.58
7-Mar-08	3.54	4.54
10-Mar-08	3.44	4.45
11-Mar-08	3.6	4.53
12-Mar-08	3.48	4.41
13-Mar-08	3.53	4.45
14-Mar-08	3.42	4.35
17-Mar-08	3.31	4.28
18-Mar-08	3.45	4.33
19-Mar-08	3.36	4.22
20-Mar-08	3.33	4.16
Averages:		
Last 63days	3.7311	4.4373
Last 126 days	4.0258	4.5472
Last 188 days	4.2808	4.6942
Last 251 days	4.4051	4.7546
Average	4.1107	4.6084
Average of 10 and 30 Year		
Yields	4.3595	
CADM Cost of		
CAPM Cost of		
Equity Estimate	10.9408	

CAPM = risk free return + β (large company total return - risk free return) = 4.3595% + 1.025(6.5%)

Source: Yahoo.com

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<u>AWR</u>	CWT	<u>SWWC</u>	<u>WTR</u>
02/08/00	02/09/00	01/14/00	01/22/00
02/08/00	02/09/00	01/14/00	01/22/00
02/08/00	02/09/00	01/14/00	01/22/00
02/08/00	02/09/00	01/14/00	01/22/00
02/07/00	02/09/00	01/14/00	01/22/00
02/06/00	02/07/00	01/13/00	01/22/00
02/05/00	02/06/00	01/14/00	01/22/00
02/05/00	02/07/00	01/14/00	01/22/00
02/06/00	02/07/00	01/14/00	01/22/00
02/05/00	02/07/00	01/14/00	01/22/00
02/06/00	02/07/00	01/14/00	01/22/00
02/06/00	02/07/00	01/14/00	01/22/00
02/05/00	02/06/00	01/14/00	01/22/00
02/05/00	02/06/00	01/13/00	01/22/00
02/05/00			01/22/00
02/05/00	02/06/00	01/13/00	01/22/00
			01/22/00
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			01/22/00
			01/22/00
			01/22/00
			01/22/00
			01/22/0 0
			01/22/00
			01/22/00
02/06/00	02/08/00	01/13/00	01/22/00
	02/08/00 02/08/00 02/08/00 02/08/00 02/07/00 02/06/00 02/05/00 02/05/00 02/06/00 02/06/00 02/06/00 02/05/00 02/05/00	02/08/00 02/09/00 02/08/00 02/09/00 02/08/00 02/09/00 02/08/00 02/09/00 02/07/00 02/09/00 02/07/00 02/07/00 02/05/00 02/07/00 02/05/00 02/07/00 02/05/00 02/07/00 02/05/00 02/07/00 02/05/00 02/07/00 02/05/00 02/07/00 02/05/00 02/07/00 02/05/00 02/06/00 02/05/00 02/06/00 02/05/00 02/06/00 02/05/00 02/06/00 02/05/00 02/09/00 02/05/00 02/09/00 02/05/00 02/09/00 02/05/00 02/09/00 02/06/00 02/09/00 02/06/00 02/09/00 02/05/00 02/08/00 02/05/00 02/08/00 02/05/00 02/08/00 02/05/00 02/07/00 02/05/00 02/05/00 02/05/00 02/05/00<	02/08/00 02/09/00 01/14/00 02/08/00 02/09/00 01/14/00 02/08/00 02/09/00 01/14/00 02/08/00 02/09/00 01/14/00 02/08/00 02/09/00 01/14/00 02/07/00 02/07/00 01/13/00 02/05/00 02/07/00 01/14/00 02/05/00 02/07/00 01/14/00 02/05/00 02/07/00 01/14/00 02/05/00 02/07/00 01/14/00 02/05/00 02/07/00 01/14/00 02/05/00 02/07/00 01/14/00 02/05/00 02/06/00 01/14/00 02/05/00 02/06/00 01/13/00 02/05/00 02/06/00 01/13/00 02/05/00 02/06/00 01/13/00 02/05/00 02/06/00 01/13/00 02/05/00 02/08/00 01/14/00 02/05/00 02/09/00 01/14/00 02/05/00 02/09/00 01/13/00 02/06/00 02/09/00 01/13/00 <tr< td=""></tr<>

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es i (Ф):				
	<u>AWR</u>	<u>CWT</u>	SWWC	<u>WTR</u>
05/08/07	02/06/00	02/07/00	01/13/00	01/22/00
05/09/07	02/06/00	02/08/00	01/13/00	01/22/00
05/10/07	02/05/00	02/07/00	01/12/00	01/22/00
05/11/07	02/05/00	02/07/00	01/13/00	01/22/00
05/14/07	02/05/00	02/07/00	01/12/00	01/22/00
05/15/07	02/04/00	02/06/00	01/12/00	01/22/00
05/16/07	02/05/00	02/07/00	01/12/00	01/22/00
05/17/07	02/05/00	02/06/00	01/12/00	01/22/00
05/18/07	02/05/00	02/07/00	01/12/00	01/22/00
05/21/07	02/05/00	02/07/00	01/12/00	01/22/00
05/22/07	02/05/00	02/07/00	01/13/00	01/22/00
05/23/07	02/05/00	02/06/00	01/12/00	01/22/00
05/24/07	02/04/00	02/05/00	01/12/00	01/22/00
05/25/07	02/05/00	02/07/00	01/13/00	01/22/00
05/29/07	02/06/00	02/07/00	01/13/00	01/22/00
05/30/07	02/05/00	02/07/00	01/13/00	01/22/00
05/31/07	02/05/00	02/06/00	01/13/00	01/22/00
06/01/07	02/05/00	02/06/00	01/13/00	01/22/00
06/04/07	02/04/00	02/05/00	01/12/00	01/22/00
06/05/07	02/04/00	02/05/00	01/12/00	01/22/00
06/06/07	02/04/00	02/05/00	01/12/00	01/22/00
06/07/07	02/03/00	02/04/00	01/12/00	01/22/00
06/08/07	02/03/00	02/04/00	01/12/00	01/22/00
06/11/07	02/03/00	02/04/00	01/12/00	01/22/00
06/12/07	02/02/00	02/03/00	01/12/00	01/22/00
06/13/07	02/03/00	02/03/00	01/12/00	01/22/00
06/14/07	02/03/00	02/04/00	01/12/00	01/22/00
06/15/07	02/04/00	02/05/00	01/12/00	01/22/00
06/18/07	02/04/00	02/04/00	01/12/00	01/22/00
06/19/07	02/04/00	02/04/00	01/12/00	01/22/00
06/20/07	02/03/00	02/03/00	01/12/00	01/22/00
06/21/07	02/03/00	02/03/00	01/12/00	01/22/00
06/22/07	02/03/00	02/03/00	01/12/00	01/21/00
06/25/07	02/03/00	02/03/00	01/12/00	01/21/00
06/26/07	02/03/00	02/03/00	01/12/00	01/21/00

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	<u>AWR</u>	<u>CWT</u>	<u>SWWC</u>	<u>WTR</u>
06/27/07	02/04/00	02/05/00	01/13/00	01/22/00
06/28/07	02/04/00	02/05/00	01/12/00	01/22/00
06/29/07	02/04/00	02/06/00	01/12/00	01/22/00
07/02/07	02/04/00	02/06/00	01/13/00	01/22/00
07/03/07	02/04/00	02/06/00	01/12/00	01/22/00
07/05/07	02/05/00	02/07/00	01/12/00	01/22/00
07/06/07	02/05/00	02/06/00	01/12/00	01/22/00
07/09/07	02/04/00	02/06/00	01/12/00	01/22/00
07/10/07	02/04/00	02/05/00	01/12/00	01/22/00
07/11/07	02/04/00	02/06/00	01/12/00	01/22/00
07/12/07	02/05/00	02/07/00	01/12/00	01/22/00
07/13/07	02/05/00	02/06/00	01/12/00	01/22/00
07/16/07	02/04/00	02/05/00	01/12/00	01/22/00
07/17/07	02/04/00	02/05/00	01/12/00	01/22/00
07/18/07	02/04/00	02/06/00	01/12/00	01/22/00
07/19/07	02/05/00	02/06/00	01/12/00	01/22/00
07/20/07	02/04/00	02/05/00	01/12/00	01/22/00
07/23/07	02/05/00	02/06/00	01/12/00	01/22/00
07/24/07	02/05/00	02/06/00	01/12/00	01/22/00
07/25/07	02/05/00	02/06/00	01/13/00	01/22/00
07/26/07	02/06/00	02/05/00	01/13/00	01/21/00
07/27/07	02/06/00	02/05/00	01/13/00	01/21/00
07/30/07	02/06/00	02/05/00	01/13/00	01/21/00
07/31/07	02/05/00	02/06/00	01/13/00	01/21/00
08/01/07	02/06/00	02/07/00	01/13/00	01/22/00
08/02/07	02/06/00	02/05/00	01/13/00	01/22/00
08/03/07	02/05/00	02/04/00	01/13/00	01/22/00
08/06/07	02/08/00	02/09/00	01/13/00	01/23/00
08/07/07	02/09/00	02/11/00	01/14/00	01/23/00
08/08/07	02/11/00	02/12/00	01/15/00	01/25/00
08/09/07	02/12/00	02/12/00	01/16/00	01/26/00
08/10/07	02/10/00	02/09/00	01/14/00	01/23/00
08/13/07	02/07/00	02/06/00	01/14/00	01/23/00
08/14/07	02/06/00	02/06/00	01/13/00	01/23/00
08/15/07	02/06/00	02/04/00	01 /13/ 0 0	01/23/00

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	<u>AWR</u>	CWT	<u>SWWC</u>	<u>WTR</u>
08/16/07	02/08/00	02/08/00	01/15/00	01/23/00
08/17/07	02/07/00	02/08/00	01/15/00	01/23/00
08/20/07	02/06/00	02/08/00	01/14/00	01/23/00
08/21/07	02/07/00	02/08/00	01/14/00	01/23/00
08/22/07	02/07/00	02/08/00	01/14/00	01/23/00
08/23/07	02/07/00	02/07/00	01/14/00	01/23/00
08/24/07	02/07/00	02/07/00	01/14/00	01/23/00
08/27/07	02/07/00	02/07/00	01/14/00	01/23/00
08/28/07	02/07/00	02/07/00	01/14/00	01/23/00
08/29/07	02/07/00	02/08/00	01/14/00	01/23/00
08/30/07	02/08/00	02/08/00	01/14/00	01/23/00
08/31/07	02/08/00	02/07/00	01/13/00	01/23/00
09/04/07	02/08/00	02/07/00	01/13/00	01/24/00
09/05/07	02/08/00	02/06/00	01/13/00	01/24/00
09/06/07	02/08/00	02/07/00	01/13/00	01/24/00
09/07/07	02/08/00	02/07/00	01/13/00	01/23/00
09/10/07	02/08/00	02/07/00	01/13/00	01/24/00
09/11/07	02/09/00	02/07/00	01/13/00	01/24/00
09/12/07	02/09/00	02/09/00	01/13/00	01/24/00
09/13/07	02/09/00	02/09/00	01/13/00	01/24/00
09/14/07	02/09/00	02/09/00	01/13/00	01/24/00
09/17/07	02/09/00	02/09/00	01/13/00	01/24/00
09/18/07	02/10/00	02/10/00	01/13/00	01/24/00
09/19/07	02/11/00	02/11/00	01/13/00	01/24/0 0
09/20/07	02/10/00	02/10/00	01/13/00	01/24/00
09/21/07	02/09/00	02/10/00	01/12/00	01/23/00
09/24/07	02/10/00	02/10/00	01/12/00	01/23/00
09/25/07	02/10/00	02/10/00	01/12/00	01/23/00
09/26/07	02/10/00	02/10/00	01/12/00	01/24/00
09/27/07	02/09/00	02/09/00	01/12/00	01/23/00
09/28/07	02/08/00	02/07/00	01/12/00	01/22/00
10/01/07	02/08/00	02/08/00	01/12/00	01/23/00
10/02/07	02/10/00	02/10/00	01/12/00	01/23/00
10/03/07	02/11/00	02/10/00	01/12/00	01/23/00
10/04/07	02/11/00	02/11/00	01/12/00	01/23/00

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#SI (Φ).				
	<u>AWR</u>	<u>CWT</u>	<u>swwc</u>	<u>WTR</u>
10/05/07	02/12/00	02/11/00	01/12/00	01/23/00
10/08/07	02/12/00	02/11/00	01/12/00	01/23/00
10/09/07	02/13/00	02/12/00	01/12/00	01/23/00
10/10/07	02/12/00	02/11/00	01/13/00	01/23/00
10/11/07	02/12/00	02/11/00	01/12/00	01/23/00
10/12/07	02/13/00	02/11/00	01/12/00	01/23/00
10/13/07	02/12/00	02/11/00	01/12/00	01/22/00
10/14/07	02/11/00	02/10/00	01/12/00	01/22/00
10/15/07	02/12/00	02/11/00	01/12/00	01/23/00
10/16/07	02/11/00	02/10/00	01/12/00	01/22/00
10/17/07	02/12/00	02/11/00	01/12/00	01/23/00
10/18/07	02/12/00	02/11/00	01/12/00	01/22/00
10/19/07	02/11/00	02/10/00	01/12/00	01/22/00
10/22/07	02/12/00	02/11/00	01/12/00	01/22/00
10/23/07	02/12/00	02/11/00	01/12/00	01/22/00
10/24/07	02/12/00	02/11/00	01/12/00	01/22/00
10/25/07	02/12/00	02/11/00	01/12/00	01/22/00
10/26/07	02/13/00	02/12/00	01/12/00	01/22/00
10/29/07	02/14/00	02/13/00	01/12/00	01/22/00
10/30/07	02/14/00	02/13/00	01/12/00	01/23/00
10/31/07	02/14/00	02/13/00	01/12/00	01/23/00
11/01/07	02/11/00	02/08/00	01/12/00	01/22/00
11/02/07	02/13/00	02/08/00	01/12/00	01/22/00
11/05/07	02/13/00	02/08/00	01/12/00	01/22/00
11/06/07	02/14/00	02/08/00	01/12/00	01/22/00
11/07/07	02/11/00	02/07/00	01/12/00	01/22/00
11/08/07	02/13/00	02/09/00	01/12/00	01/22/00
11/09/07	02/11/00	02/08/00	01/12/00	01/22/00
11/12/07	02/12/00	02/09/00	01/12/00	01/21/00
11/13/07	02/12/00	02/09/00	01/12/00	01/22/00
11/14/07	02/12/00	02/09/00	01/12/00	01/22/00
11/15/07	02/11/00	02/08/00	01/12/00	01/22/00
11/16/07	02/10/00	02/07/00	01/11/00	01/22/00
11/19/07	02/09/00	02/05/00	01/11/00	01/21/00
11/20/07	02/11/00	02/07/00	01/11/00	01/22/00

•	<u>AWR</u>	CWT	<u>SWWC</u>	<u>WTR</u>
11/21/07	02/10/00	02/08/00	01/11/00	01/21/00
11/23/07	02/11/00	02/08/00	01/12/00	01/21/00
11/26/07	02/09/00	02/07/00	01/11/00	01/21/00
11/27/07	02/11/00	02/07/00	01/11/00	01/21/00
11/28/07	02/12/00	02/09/00	01/12/00	01/22/00
11/29/07	02/11/00	02/08/00	01/11/00	01/22/00
11/30/07	02/10/00	02/08/00	01/11/00	01/22/00
12/03/07	02/10/00	02/07/00	01/11/00	01/22/00
12/04/07	02/09/00	02/06/00	01/11/00	01/22/00
12/05/07	02/10/00	02/07/00	01/12/00	01/22/00
12/06/07	02/10/00	02/07/00	01/12/00	01/22/00
12/07/07	02/10/00	02/07/00	01/12/00	01/22/00
12/10/07	02/10/00	02/08/00	01/12/00	01/22/00
12/11/07	02/09/00	02/06/00	01/12/00	01/22/00
12/12/07	02/10/00	02/07/00	01/12/00	01/22/00
12/13/07	02/11/00	02/07/00	01/12/00	01/22/00
12/14/07	02/09/00	02/06/00	01/11/00	01/21/00
12/17/07	02/09/00	02/05/00	01/11/00	01/21/00
12/18/07	02/10/00	02/07/00	01/12/00	01/21/00
12/19/07	02/10/00	02/07/00	01/12/00	01/21/00
12/20/07	02/09/00	02/07/00	01/12/00	01/21/00
12/21/07	02/10/00	02/08/00	01/12/00	01/21/00
12/24/07	02/11/00	02/08/00	01/12/00	01/21/00
12/26/07	02/10/00	02/08/00	01/12/00	01/21/00
12/27/07	02/07/00	02/06/00	01/11/00	01/21/00
12/28/07	02/06/00	02/04/00	01/12/00	01/21/00
12/31/07	02/06/00	02/06/00	01/12/00	01/21/00
01/02/08	02/06/00	02/05/00	01/12/00	01/21/00
01/03/08	02/08/00	02/05/00	01/11/00	01/21/00
01/04/08	02/07/00	02/05/00	01/11/00	01/21/00
01/07/08	02/08/00	02/05/00	01/12/00	01/21/00
01/08/08	02/07/00	02/05/00	01/12/00	01/21/00
01/09/08	02/08/00	02/05/00	01/12/00	01/21/00
01/10/08	02/07/00	02/05/00	01/12/00	01/21/00
01/11/08	02/06/00	02/05/00	01/12/00	01/20/00

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()	<u>AWR</u>	CWT	SWWC	WTR
01/14/08	02/06/00	02/05/00	01/12/00	01/21/00
01/15/08	02/06/00	02/05/00	01/12/00	01/20/00
01/16/08	02/06/00	02/05/00	01/12/00	01/19/00
01/17/08	02/06/00	02/05/00	01/11/00	01/20/00
01/18/08	02/04/00	02/04/00	01/11/00	01/20/00
01/22/08	02/03/00	02/02/00	01/11/00	01/19/00
01/23/08	02/03/00	02/05/00	01/11/00	01/19/00
01/24/08	02/03/00	02/04/00	01/11/00	01/19/00
01/25/08	02/03/00	02/03/00	01/11/00	01/18/00
01/28/08	02/03/00	02/04/00	01/11/00	01/19/00
01/29/08	02/03/00	02/04/00	01/11/00	01/19/00
01/30/08	02/02/00	02/02/00	01/10/00	01/19/00
01/31/08	02/03/00	02/03/00	01/11/00	01/19/00
02/01/08	02/03/00	02/04/00	01/11/00	01/20/00
02/04/08	02/04/00	02/04/00	01/11/00	01/20/00
02/05/08	02/03/00	02/03/00	01/11/00	01/19/0 0
02/06/08	02/03/00	02/03/00	01/11/00	01/19/00
02/07/08	02/02/00	02/04/00	01/11/00	01/20/00
02/08/08	02/01/00	02/03/00	01/11/00	01/19/00
02/11/08	02/01/00	02/03/00	01/11/00	01/19/00
02/12/08	02/02/00	02/04/00	01/11/00	01/20/00
02/13/08	02/02/00	02/05/00	01/11/00	01/20/00
02/14/08	02/01/00	02/04/00	01/11/00	01/20/00
02/15/08	02/01/00	02/03/00	01/11/00	01/19/00
02/19/08	02/01/00	02/03/00	01/10/00	01/20/00
02/20/08	02/01/00	02/04/00	01/11/00	01/19/00
02/21/08	02/01/00	02/03/00	01/10/00	01/19/00
02/22/08	02/01/00	02/04/00	01/11/00	01/19/00
02/25/08	02/02/00	02/04/00	01/11/00	01/19/00
02/26/08	02/03/00	02/05/00	01/11/00	01/20/00
02/27/08	02/02/00	02/05/00	01/11/00	01/19/00
02/28/08	02/01/00	02/06/00	01/11/00	01/19/00
02/29/08	02/01/00	02/06/00	01/10/00	01/19/00
03/03/08	02/01/00	02/06/00	01/11/00	01/18/00
03/04/08	02/02/00	02/06/00	01/11/00	01/18/00

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Stock Prices1 (\$):				
• •	<u>AWR</u>	<u>CWT</u>	<u>SWWC</u>	<u>WTR</u>
03/05/08	02/03/00	02/07/00	01/11/00	01/18/00
03/06/08	02/01/00	02/06/00	01/10/00	01/18/00
03/07/08	02/02/00	02/07/00	01/11/00	01/18/00
03/10/08	02/01/00	02/06/00	01/11/00	01/18/00
03/11/08	02/03/00	02/08/00	01/11/00	01/18/00
03/12/08	02/03/00	02/08/00	01/11/00	01/18/00
03/13/08	02/02/00	02/09/00	01/11/00	01/18/00
03/14/08	02/02/00	02/08/00	01/11/00	01/18/00
03/17/08	02/02/00	02/08/00	01/11/00	01/18/00
03/18/08	02/04/00	02/09/00	01/11/00	01/19/00
03/19/08	02/03/00	02/08/00	01/11/00	01/18/00
03/20/08	02/05/00	02/09/00	01/11/00	01/18/00
AVERAGE (\$)	38.0947	38.4344	12.7550	22.1153
QUARTERLY DIV.2 (\$)	0.2350	0.2900	0.0580	0.1150
,	0.2350	0.2900	0.0580	0.1250
	0.2500	0.2900	0.0580	0.1250
	0.2500	0.2920	0.0600	0.1250
ANNUAL DIVIDEND (\$)	0.9700	1.1620	0.2340	0.4900
YIELD	2.55%	3.02%	1.83%	2.22%
REUTERS ³	4.00%	7.75%	12.50%	10.50%
MSN ⁴	12.00%	8.00%	11.00%	9.80%
YAHOO⁵	8.57%	9.53%	10.00%	10.18%
VALUE LINE ⁶ : 07 EARNINGS (\$)	1.63	1.43	0.30	0.75
11 EARNINGS (\$)	2.20	2.20	0.70	1.05
(Ψ)	7.50%	10.77%	21.18%	8.41%
	7.0070	10.11.70	21,1070	0.4170

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DCF Cost of Equity Estimate

	<u>AWR</u>	CWT	SWWC	WTR
VALUE LINE, "BOXED"	10.00%	7.50%	14.00%	7.50%
VALUE LINE	8.75%	9.13%	17.59%	7.96%
DCF GROWTH ESTIMATE	8.33%	8.60%	12.77%	9.61%
DCF COST OF EQUITY ESTIMATE	9.99%	10.68%	10.50%	10.00%
DCF AVERAGE				10.29%
CAPM COST OF EQUITY ESTIMATE	=			10.94%
COST OF EQUITY ESTIMATE				10.62%

Sources:

- 1 MSN investor
- 2 MSN Investor & Value Line Investment Guide
- 3 investor.reuters.com
- 4 moneycentral.msn.com
- 5 finance.yahoo.com
- 6 Value Line Investment Guide

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AWR Non-Constant DCF Calculation

	g=	8.33%	non const dcf=	9.99%	const dcf=	11.09%
	D=	\$0.97	P=	-\$38.09	g(e)=	6.77%
		GROWTH				
YEAR	<u> </u>	<u>RATE</u>		<u>DIVIDEND</u>		
1	-	8.33%		\$1.05		
2		8.33%		\$1.14		
3		8.33%		\$1.23		
4		8.33%		\$1 .34		
5		8.33%		\$1.45		
6		8.25%		\$1.57		
7		8.17%		\$1.69		
8		8.10%		\$1.83		
9		8.02%		\$1.98		
10 11		7.94% 7.86%		\$2.14 \$2.30		
12		7.78%		\$2.48		
13		7.71%		\$2.67		
14		7.63%		\$2.88		
15		7.55%		\$3.10		
16		7.47%		\$3.33		
17		7.39%		\$3.57		
18		7.31%		\$3.83		
19		7.24%		\$4.11		
20		7.16%		\$4.41		
21		7.08%		\$4.72		
22		7.00%		\$5.05		
23		6.92%		\$5.40		
24		6.85%		\$5.77		
25		6.77%		\$6.16		

AWR Non-Constant DCF Calculation

,	g=	6.77%	non const dcf=	1039.76%	const dcf=	6.20%
[)=	\$0.07	P=	\$12.65	g(e)=	0.00%
<u>YEAR</u>		GROWTH <u>RATE</u>		DIVIDEND		
26		6.77%		\$6.57		
27		6.77%		\$7.02		
28		6.77%		\$7.49		
29		6.77%		\$8.00		
30		6.77%		\$8.54		

This schedule is truncated; the calculation extends to 400 years to ensure the stability of the calculation.

CWT Non-Constant DCF Calculation

(g=	8.60%	non const dcf=	10.68%	const dcf=	11.89%
Γ)=	\$1.16	P=	-\$38.43	g(e)=	6.77%
YEAR 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		ROWTH RATE 8.60% 8.60% 8.60% 8.60% 8.60% 8.60% 8.61% 8.42% 8.33% 8.24% 8.14% 8.05% 7.96% 7.78% 7.59% 7.59% 7.59% 7.41% 7.32% 7.14% 7.04% 6.95% 6.77% 6.77% 6.77% 6.77% 6.77%		DIVIDEND \$1.26 \$1.37 \$1.49 \$1.62 \$1.76 \$1.91 \$2.07 \$2.24 \$2.42 \$2.62 \$2.83 \$3.06 \$3.30 \$3.55 \$3.82 \$4.12 \$4.42 \$4.75 \$5.10 \$5.47 \$5.86 \$6.27 \$6.71 \$7.65 \$8.17 \$7.65 \$8.17 \$9.31 \$9.94		
30		6.77%		\$10.62		

This schedule is truncated; the calculation extends to 400 years to ensure the stability of the calculation.

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SWWC Non-Constant DCF Calculation

g=	12.77%	non const dcf=	10.50%	const dcf=	14.84%
D=	\$0.23	P=	-\$12.75	g(e)=	6.77%
	00000				

		. 412.10
	GROWTH	
<u>YEAR</u>	<u>RATE</u>	DIVIDEND
1	12.77%	\$0.26
2	12.77%	\$0.30
2 3	12.77%	\$0.34
4	12.77%	\$0.38
5	12.77%	\$0.43
6	12.47%	\$0.48
7	12.1 7 %	\$0.54
8	11.87%	\$0.60
9	11.57%	\$0.67
10	11.27%	\$0.75
11	10.97%	\$0.83
12	10.67%	\$0.92
13	10.37%	\$1.01
14	10.07%	\$1.12
15	9.77%	\$1.22
16	9.47%	\$1.34
17	9.17%	\$1.46
18	8.87%	\$1.59
19	8.57%	\$1.73
20	8.27%	\$ 1.8 7
21	7.97%	\$2.02
22	7.67%	\$2.18
23	7.37%	\$2.34
24	7.07%	\$2.50
25	6.77%	\$2.67
26	6.77%	\$2.85
27	6.77%	\$3.05
28	6.77%	\$3.25
29	6.77%	\$3.47
30	6.77%	\$3.71

This schedule is truncated; the calculation extends to 400 years to ensure the stability of the calculation.

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12.04%

const

dcf=

WTR Non-Constant DCF Calculation

non const

dcf=

g=

13

14

15

16

17

18

19 20

21

22

23

24

25

26

27

28

29

30

9.61%

8.47% 8.33%

8.19%

8.05%

7.90%

7.76% 7.62%

7.48%

7.34%

7.19%

7.05%

6.91%

6.77%

6.77%

6.77%

6.77%

6.77%

6.77%

10.00%

\$1.54

\$1.67

\$1.81

\$1.95

\$2.11

\$2.27

\$2.44

\$2.62 \$2.82

\$3.02

\$3.23 \$3.46

\$3.69

\$3.94 \$4.21

\$4.49

\$4.80

\$5.12

D=	\$0.49	P= -\$22.12	g(e)=	6.77%
	GROWTH			
<u>YEAR</u>	<u>RATE</u>	DIVIDEND		
1	9.61%	\$0.54		
2	9.61%	\$0.59		
3	9.61%	\$0 .65		
4	9.61%	\$0.71		
5	9.61%	\$0.78		
6	9.47%	\$0.85		
7	9.32%	\$0.93		
8	9.18%	\$1.01		
9	9.04%	\$1.10		
10	8.90%	\$1.20		
11	8.76%	\$1.31		
12	8.61%	\$1.42		

This schedule is truncated; the calculation extends to 400 years to ensure the stability of the calculation.

Growth in U.S. Gross National Product, 1929 to 2005

Year	GNP	Change	Growth%
	(\$billion)	(\$billion)	
1929	104.4		
1930	91.90	-12.70	-12.32%
1931	77.00	-14.60	-16.15%
1932	59.10	-17.80	-23.48%
1933	56.70	-2.40	-4.14%
1934	66.30	9.50	17.09%
1935	73.60	7.10	10.91%
1936	84.00	10.30	14.27%
1937	92.20	7.90	9.58%
1938	86.50	-5.70	-6.31%
1939	92.50	6.60	7.79%
1940	101.70	9.10	9.97%
1941	127.20	25.10	25.00%
1942	162.30	33.50	26.69%
1943	198.90	33.70	21.19%
1944	220.10	18.70	9.70%
1945	223.40	2.00	0.95%
1946	222.90	-1.00	-0.47%
1947	245.30	22.80	10.73%
1948	270.60	26.40	11.22%
1949	268.60	-1.20	-0.46%
1950	295.20	27.90	10.71%
1951	341.20	45.10	15.64%
1952	360.30	18.20	5.46%
1953	381.30	20.00	5.69%
1954	382.50	0.90	0.24%
1955	417.20	33.40	8.97%
1956	440.30	22.30	5.49%
1957	464.10	22.80	5.32%
1958	469.80	5.80	1.29%
1959	509.30	53.50	11.71%
1960	529.50	20.30	3.98%
1 961	548.20	18.70	3.52%
1962	589.70	41.40	7.54%
1963	622.20	32.50	5.50%
1964	668.50	46.20	7.41%
1965	724.40	56.10	8.38%
1966	792.90	69.00	9.51%
1967	838.00	45.00	5.66%
1968	916.10	78.10	9.30%
1969	990.70	73.90	8.05%

Growth in U.S. Gross National Product, 1929 to 2005

Year	GNP (\$billion)	Change (\$billion)	Growth%
1970	1,044.90	54.60	5.51%
1971	1,134.70	90.10	8.61%
1972	1,246.80	112.90	9.94%
1973	1,395.30	149.10	11.94%
1974	1,515.50	118.50	8.48%
1975	1,651.30	131.70	8.68%
1976	1,842.10	192.60	11.68%
1977	2,051.20	211.10	11.47%
1978	2,316.30	265.90	12.96%
1979	2,595.30	281.30	12.14%
1980	2,823.70	231.50	8.91%
1981	3,161.40	335.30	11.84%
1982	3,291.50	129.60	4.09%
1983	3,573.80	276.10	8.38%
1984	3,969.50	396.30	11.10%
1985	4,246.80	270.30	6.81%
1986	4,480.60	229.90	5.42%
1987	4,757.40	287.90	6.44%
1988	5,127.40	370.60	7.79%
1989	5,510.60	382.60	7.46%
1990	5,837.90	322.80	5.86%
1991	6,026.30	178.70	3.06%
1992	6,367.40	331.40	5.51%
1993	6,689.30	324.40	5.11%
1994	7,098.40	404.40	6.07%
1995	7,433.40	349.80	4.95%
1996	7,851.90	410.30	5.53%
1997	8,337.30	473.80	6.05%
1998	8,768.30	445.00	5.36%
1999	9,302.20	486.20	5.56%
2000	9,855.90	553.70	5.95%
2001	10,171.60	315.70	3.20%
2002	10,514.10	342.50	3.37%
2003	11,059.20	545.10	5.18%
2004	11,778.90	719.70	6.51%
2005	12,520.80	741.90	6.30%
Average			6.77%

Sources: (1) National Income and Product Accounts (NIPA) from the U. S. Bureau of Economic Analysis and Econostats; BEA Data; NIPA Index; Section 1. Domestic Product and Income Table 1.7.5 Relation of Gross Domestic Product, Gross National Product, Net National Product, National Income, and Personal Income. (2) U. S. Department of Commerce; Survey of Current of the United States Business and Historical Statistics

Typical Monthly Bill Comparison (excluding softening) <u>5/8" Meter</u>

<u>A Customers</u>

Usage <u>CCF</u>	Current	Proposed Bill Applicant	Dollar Increase <u>Applicant</u>	Percent Increase <u>Applicant</u>
0	\$ 9.41	\$ 10.59	\$ 1.18	12.54%
1	13.89	15.63	1.74	12.55
2	18.37	20.67	2.31	12.55
3	22.85	25.72	2.87	12.56
4	27.33	30.76	3.43	12.56
6	36.29	40.84	4.56	12.56 Res. Avg.
8	45.24	50.93	5.68	12.56
10	54.20	61.01	6.81	12.56
20	99.00	111.43	12.44	12.56 Com. Avg.

Percent Increase
<u>Applicant</u>
12.54%
21.55
26.91
30.47
33.00
36.36
38.49
39.96
42.89

Typical Monthly Bill Comparison 5/8" Meter

Wastewater Customers

Usage <u>CCF</u>	Current	Proposed Bill Applicant	Dollar Increase <u>Applicant</u>	Percent Increase <u>Applicant</u>
0	\$ -0-	\$ -0-	\$ -0-	0.00%
1	6.02	8.23	2.21	36.80
2	12.03	16.46	4.43	36.80
3	18.05	24.70	6.64	36.80
4	24.07	32.93	8.86	36.80
6	36.10	49.39	13.29	36.80
8	48.14	65.86	17.72	36.80
10	60.17	82.32	22.15	36.80
20	108.56	148.51	39.95	36.80