State of New Jersey

Board of Public Utilities

Middlesex Water Company

BPU Docket No. WR2105____

Direct Testimony

of

John F. Guastella

Regarding the Cost of

Service Study and Tariff Design

May 2021

- 1 Q. Please state your name and business address.
- 2 A. John F. Guastella, Guastella Associates, LLC, 725 N. Highway A1A, Suite B103, Jupiter,
- 3 Florida 33477.
- 4 Q. By whom are you employed?
- 5 A. I am President of Guastella Associates, LLC.
- 6 Q. Please describe Guastella Associates, LLC.
- 7 A. Guastella Associates, LLC provides utility management, valuation, and rate consulting
- 8 services to both regulated and unregulated utilities.
- 9 Q. Have you attached a detailed statement of your qualifications and experience?
- 10 A. Yes, it is set forth in Appendix A.
- 11 Q. What is the nature of your involvement in this proceeding?
- 12 A. Guastella Associates, LLC has been retained by Middlesex Water Company
- 13 ("Middlesex" or "Company") to perform a customer class cost allocation study ("cost of
- service study" or "COSS").
- 15 Q. Have you completed the cost of service study?
- 16 A. Yes, Exhibit JFG-1, included as part of Exhibit P-8 to this testimony, contains detailed
- schedules showing the results of the study.

- Q. Did you prepare a similar COSS on behalf of the Company in its last three rate cases using the same general methodology and concepts that you described in your testimony in those cases?
- 4 A. Yes.

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- Although presented in the previous rate cases, I will ask you to again describe the
 method and concepts for convenience to the participants in this case and to establish
 a record in this case without simply referring to your testimony in those cases.
- 8 Accordingly, what is the objective of a cost of service study?
- A. The objective of a COSS is to estimate the cost of serving each class of customer and to
 design rates that reasonably recover those costs.
- Q. Why does the COSS produce an estimated instead of actual cost to serve each customer class?
- A. Of the total cost of providing water service to all customers, there are few costs that are directly identifiable with specific customer classes. Accordingly, most costs must be allocated to customer classes on the basis of considerable judgment as to allocation methods and factors that, while reasonably determined, nonetheless produce only good estimates of costs applicable to each class.
 - In addition, water systems are designed and operated to meet average and maximum demands that reflect the diversity of the demands of all customers not all customers impose their maximum demands at the same time. Customer demands also vary in terms of total quantity for any period. For example, Middlesex's South River Basin Customers

tend to have their own storage which retail customers north of the Raritan River do not have, thus they would be expected to create different usage pressures on the water system even though the ultimate users might largely be residential customers. The allocation factors, therefore, require judgment that is applied to a complex array of design criteria, operational characteristics, demand data, and voluminous accounting and billing data. The data are organized to reflect the functions for which the water system is designed and operated, recognizing that various facilities serve multiple functions. Customer class allocations are made by applying the varying consumption patterns of the different customer classes, some of which are also estimated. Moreover, it is not uncommon that the direct results of cost allocations would be adjusted to reflect various policies of the utility and its regulator and that implicates tariff design rather than cost of service.

Q. What is the cost basis for your COSS?

- A. My study has been performed on the basis of the pro-forma revenue requirement and its components that the Company has used to support its revenue requirement in this case.
- 15 Q. Would you briefly describe your scope of work?
- 16 A. Yes, all source data was obtained from the Company. We examined financial and
 17 operating data, including detailed asset, revenue and expense schedules as well as
 18 production data. We examined billing data to develop a pro forma summary billing
 19 analysis under present rates and utilized that billing analysis to design rates that would
 20 recover the pro-forma revenue requirement on the basis of customer class allocations, and
 21 to reflect the policy decisions regarding the proposed rate design.
 - Q. Would you please describe the methodology that you used to prepare the study?

A. The COSS is based on the Base-Extra Capacity method. This method, which is described and illustrated in the American Water Works Association ("AWWA") Water Rates Manual (M-1), identifies and classifies the various cost components which comprise the revenue requirement, functionalizes those cost components according to the general design criteria and operation of a water utility, and allocates the functionalized costs among the customer classes. It also incorporates a fire service cost allocation within the format of the study.

How did you classify and functionalize costs?

Q.

A.

The Company's investment in utility plant in service was analyzed according to the primary plant accounts contained in the Uniform System of Accounts which classifies costs into different components of the utility system. Those components are then functionalized according to the design and use of the system in meeting the demands of the customers. As discussed in greater detail below, the functions used in the Base-Extra-Capacity method are: Base, Extra Capacity Maximum Day, Extra Capacity Peak Hour, Customer (Meters/Service and Billing and Accounting), and Fire Service costs.

Base costs are those that tend to vary according to average use.

Extra Capacity Maximum Day and Extra Capacity Peak Hour are costs that tend to vary according to the maximum day or peak hour demands on the system, in excess of the average day demands.

<u>Customer costs</u> for such items as billing, accounting, and collecting do not vary with either average or maximum demands but instead according to the number of bills or

Equivalent Residential Connections (ERCs). Similarly, customer costs for meters and services tend to vary according to the equivalent number of such units.

<u>Fire Service costs</u> include an allocation of the Capacity of facilities needed to meet fire demands and Hydrant costs.

After costs have been classified and functionalized, they are allocated using the Base-Extra Capacity method to the various customer classes according to the relative average, maximum day and peak hour demands of each class and the relative bills and equivalent meters of each class.

- Q. Is the Base-Extra Capacity method you describe set forth in Exhibit JFG-1?
- 10 A. Yes.

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- 11 Q. Is your COSS the basis for the proposed rates?
- I have included two rate designs: one that would recover costs as allocated through
 implementing the specific results of the COSS without reflecting various public policy
 preferences ("designed rates") and another that reflects the Company's proposed rate
 structure which takes these public policy factors into account in developing the proposed
 rate design. I describe below those policy variations between the purely COSS results
 and the proposed rate design.
- 18 Q. Referring to Exhibit JFG-1, would you please describe Schedule 1?
- A. Schedule 1 summarizes the allocation of the revenue requirement by functional classification to the customer classes. In other words, it quantifies the portion of the

1		revenue requirement that should be recovered through rates for service from each class or
2		customer. As shown, the customer classes include Residential, Commercial and
3		Industrial, or collectively as General Metered Service ("GMS") customers, and the
4		Wholesale (Sales to Other Systems), and Fire Service.
5	Q.	Is Schedule 1 used as the cost basis to develop the rate design?
6	A.	Yes, Schedule 1 shows the revenues to be generated by each class of customer through
7		designed rates.
8	Q.	Would you please explain how you functionalized the costs that are allocated to
9		customer classes in Schedule 1?
10	A.	Yes. The allocation of the revenue requirement components to the functions is
11		summarized in Schedule 9, which contains allocation codes that are developed in other
12		Schedules. Schedule 10 shows the Allocation of Rate Base to Functions. Schedule 11
13		shows the Allocation of Utility Plant in Service. Schedule 12 shows the Allocation of
14		Accumulated Depreciation. Schedule 13 shows the Allocation of Materials and Supplies
15		Schedule 14 shows the Allocation of Operation and Maintenance Expense. Schedule 15

Q. How did you establish the total system demands used for the functional cost allocations?

shows the Allocation of Depreciation Expense.

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A. A review of the total system historical water demands supports the system demand ratios of 1.7 and 2.0 established for maximum day and peak hour demands in relation to the average day demand, respectively.

1	Schedule 17 sets forth the average day, maximum day and peak hour system demands in
2	million gallons per day (mgd) and the ratio of each to the average day. Also shown on
3	Schedule 17 is the fire demand which has been estimated at 12,000 gallons per minute
4	(gpm), as well as a maximum day fire flow of 7.2 million gallons for a 10-hour duration.
5	The 12,000gpm fire demand equates to a rate of flow of 17.28 mgd. The fire demand is
6	based on a review of guidelines established by the Insurance Service Organization (and
7	its predecessor, the National Board of Fire Underwriters), and judgment as to the size and
8	characteristics of the service area, the potential for coincidental fires and/or fires at
9	multiple locations, and the capability of providing fire flows throughout the extreme
10	margins of the water system.

- 11 Q. Have you prepared schedules that summarize and explain the functional allocation 12 factors?
- 13 A. Yes. Schedule 16, Page 1, contains a summary of the functional allocation factors and pages 2-6, provide explanations of each factor.
- 15 Q. Having allocated costs to the various functions, did you then allocate the 16 functionalized costs to the customer classes?
- A. Yes. Schedule 2 contains a summary of the allocation of Base-Extra-Capacity functions and total revenue requirement to the customer classes. The basis for the allocation factors takes into account that not all customers are directly served by all the Company's plant and facilities. For example, factors are developed for facilities that serve all customers as well as facilities that do not serve customers directly such as East

- Brunswick. There are also factors for specific components of costs and expenses directly allocable to certain classes, as shown on Schedule 18, pages 1-6.
- Q. How did you allocate the transmission mains that serve the South River Basincustomers?
- 5 A. As in past COSS, all transmission mains were allocated according to the relative demands 6 of all customers because Middlesex has set rates for all of its plant and facilities as an 7 integrated system. I would point out that an "integrated" system does not only apply to the physical assets used to serve all customers both current and future, but also integrated 8 in terms of operations, financing, and management. There is also integration in terms of 9 10 rate setting and the application of rates under which new customers are charged the same 11 rates as existing customers, not rates based on the incremental cost of adding the new 12 customers. The existing customers therefore benefit by having the new customer share the embedded costs of providing service to all customers. 13
- Q. Have you prepared a billing analysis and revenue comparison under existing rates
 and rates that reflect your customer class allocations?
- A. Yes. Schedule 19, Page 1, contains a summary of projected revenues under existing and designed rates that reflect the customer class cost allocations of the pro forma revenue requirement. The overall revenue increase is 37.79%, of which a slightly higher 37.89% increase is required for sales revenue because there is no increase projected for miscellaneous revenue. Page 1 also includes the percentage changes for each customer class, based on the allocated costs. Page 2 contains the billing analyses under present and "designed" rates that reflect the results of the allocations.

1 Q. What is the overall result of the COSS?

- 2 A. The COSS shows that on a cost basis, within GMS the existing rates for the Residential class are not recovering the costs to serve that class, and the Commercial and Industrial 3 customers are significantly subsidizing the Residential customer class. With respect to 4 fire service, while the Private Fire service customers are continuing to pay more than 5 their practical share of the allocated costs, the Public Fire customers are paying 6 considerably less than their practical share of the allocated costs. With respect to the 7 Wholesale customers, the proposed rates are consistent with the results of the COSS. 8 9 Edison/Highland Park would require a 26.94% increase, East Brunswick would require a 32.71% increase, Rahway would require a 49.59% increase, Old Bridge would require a 10 11 52.98% increase and Marlboro would require a 59.76% rate increase, primarily caused by the high allocated increase in the transmission rate. In addition to the general service 12 13 increase, the Rahway, Old Bridge and Marlboro increases include significant increases to their transmission rates resulting from the results of the COSS. 14
- Q. Are there any significant differences in the results of this COSS in comparison with those in the last rate case?
- 17 A. No. I would note, however, that the increases to the South River Basin customers

 18 continue to be higher not because of a change in the COSS methodology, but because of

 19 significant investment by the Company in utility plant, particularly in transmission mains

 20 that directly impacts the transmission rate.

- 1 Q. Has Middlesex asked you to prepare its proposed rate structure for filing purposes
- 2 that is based on, but that differs in some ways from, the designed rates based purely
- on the results of your COSS?
- 4 A. Yes.
- 5 Q. Have you prepared schedules to reflect the differences between the pure COSS
- 6 results and the Tariff Design proposed based on the policy considerations identified
- **7 by Middlesex?**
- 8 A. Yes. Exhibit P-8 includes Schedule 20 that reflects alternative calculations of rates and
- 9 revenues.
- 10 Q. What revisions are reflected in Schedule 20?
- 11 A. In accordance with the Company's rate design policy request for this case, Schedule 20
- reflects the elimination of separate rates among the Residential, Commercial and
- 13 Industrial classes, and essentially treats General Metered Service ("GMS") as one class of
- 14 customer. The fire service customer rates have also been revised to limit the rates for
- Public Fire service to 4% and to keep Private Fire service rates at the existing level rather
- than reducing those rates
- 17 Q. Do you support the Company's revisions for purposes of Rate Design?
- 18 A. In general, I do, because tariff design involves considerable judgment, its results are
- considered a start to the rate design finally implemented, not the end point. Policy
- decisions of the utility and its regulator that depart from pure cost allocations are not
- 21 unusual and are reasonable as long as they don't result in rates, in my opinion, that are

"unduly" discriminatory. With respect to Middlesex's rates and various cost components, the two major adjustments affect Fire Service and GMS customers.

With respect to Public Fire Service, regulators in other jurisdictions have accommodated requests by municipalities to limit rate increases for public fire service by recovering those cost through fixed service charges for smaller size meters. The GMS customers, particularly residential customers, receive the benefit of fire protection and therefore, it is appropriate for them to be allocated those costs to pay for the benefit they receive. Revising the service charges instead of usage rates accurately reflects the fact that customers who use more or less water do not receive commensurately more or less fire protection. Similarly, customers with larger meters do not receive more fire protection in proportion to the maximum demand capacities of the meter sizes, which is the basis for the higher service charges for larger size meters.

With respect to GMS, it is a departure from cost of service rate setting principles to design a rate structure that contains the same rates for all customer classes within GMS, with the same increases to the current fixed service charges and usage rate. I am aware that for several years the regulators in New Jersey have been reluctant to break out rates for different kinds of customers within the GMS class, so I have reflected that posture in preparing Schedule 20. The use of the same volumetric or usage rates for Residential, Commercial and Industrial classes within GMS remains problematic because it continues the clear subsidization of the Residential class by the Commercial and Industrial classes, a circumstance that apparently has evolved in the settlement of past rate cases and one that seems to increase the subsidization in each case.

Q. Would you please describe Schedule 20?

2 A. Pages 1 of 4 of Schedule 20, contains a summary of projected revenues by class of customer. The increase for GMS is 43.26% with only minor different percentage for the 3 Residential Commercial and Industrial classes. Those differences are attributable to the 4 5 allocation of the shortfall in public fire service charges, due to the 4% limit, to fixed service charges up to the 2-inch meter size, and because the percentage of revenue from 6 service charges and usage rates differ among the classes. Page 2 contains the billing 7 analysis showing for all classes of customer a comparison of existing and proposed rates 8 9 and revenues, along with the percentage differences. Page 3 contains a detailed comparison of the existing and proposed Wholesale rates. Page 4 contains the 10 adjustments and analysis used to convert the designed rates, as allocated, and the 11 proposed rates. 12

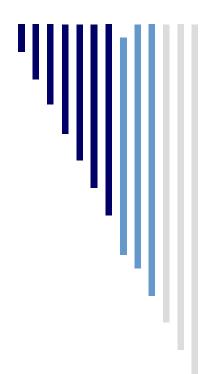
13 Q. Does that conclude your testimony at this time?

14 A. Yes.

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Guastella Associates, LLC

Qualifications & Experience



Rate Setting
Valuation
Management
Consulting

...SERVING REGULATED AND UNREGULATED WATER AND WASTEWATER UTILITIES SINCE 1978

INTRODUCTION GUASTELLA ASSOCIATES, LLC

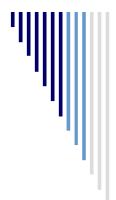
Guastella Associates, LLC ("formerly John F. Guastella Associates, Inc.") is a consulting firm that specializes in providing utility rate setting, valuation and management services for public and privately-owned water and wastewater utilities.

John F. Guastella established Guastella Associates in 1978. Previously, Mr. Guastella was Director of the Water Division of the New York Public Service Commission. The Water Division provided the New York Commission with technical assistance in regulating the rates and service provided by approximately 450 privately-owned utilities. During the period from 1987 through 1991, Mr. Guastella also managed a 5,500 customer water utility in New York State. In 1989, Guastella Associates acquired the rates and valuation section of Coffin & Richardson, Inc., a general consulting firm that also provided a full range of services to water and wastewater utilities. Since 2009, Guastella Associates has served as the general manager of Daufuskie Island Utility Company, Inc. ("DIUC"), responsible for its day-to-day operations, billing, bookkeeping, financing, capital improvement projects and regulatory relations. DIUC provides water and wastewater service to some 550 connected customers and 600 availability customers located on Daufuskie Island, South Carolina. Guastella Associates also manages the Kiawah River Utility Company which provides wastewater services to a new development in South Carolina.

Key staff members have many years of combined experience in virtually every aspect of utility rate setting and valuation. The technical expertise of key staff, combined with their former employment by real estate and utility companies, a regulatory agency, and the management of water utilities, provides a total perspective towards addressing the rates and valuation needs of today's water and wastewater utilities.

Guastella Associates has assisted the largest privately-owned utilities with respect to the most challenging issues, performing complex studies and providing expert testimony in administrative hearings as well as court proceedings. In addition, our client base has included hundreds of small water and wastewater utilities - - obtaining rate increases that turn operating losses into profits, posturing them for financing, correcting record keeping errors and, for some, negotiating their sale at multiples of their original cost net investment rate base. Some of our most successful assignments have been to help establish new developer-related water and wastewater utilities, applying the correct principles at the outset in order to develop fully compensatory initial rates, record keeping procedures and asset management, so they are structured to become self-sustaining utilities that will achieve the highest possible profit and ultimate market value.

Our wide-range of experience and expertise has enabled us to successfully address the special needs of large investor-owned utilities in rate cases and condemnation proceedings.



OUTLINE OF SERVICES GUASTELLA ASSOCIATES, LLC

Guastella Associates, LLC ("formerly John F. Guastella Associates, Inc.") is a consulting firm specializing in utility management, valuation, appraisals and rate determinations. Guastella Associates has been providing professional services to regulated and unregulated utilities since 1978.

Specific areas of expertise includes:

I. RATE ANALYSIS

A. Revenue Requirements

- 1. Examination of books and records -- revenues, expenses and capital investment.
- 2. Determination of the cost of providing service (revenue requirement) -- normalize historical data, establish known changes and perform projections.

B. Rate Design

- 1. Perform cost allocation studies to establish cost of service for residential, commercial, industrial, wholesale and fire protection customers, and for other special users.
- 2. Develop rate structures -- combine billing analyses and cost allocations to form usage rates, flat rates, minimum service and facilities charges, and such other special charges as connection fees, availability rates, etc.

C. Reports

- 1. Investor-owned utilities -- prepare complete rate filings for submission to regulatory agencies; prepare testimony, exhibits, and assist in all aspects of adjudication process.
- 2. Municipal utilities -- prepare detailed rate reports in support of rate increases for use by municipal officials and presentation at municipal hearings.



OUTLINE OF SERVICES GUASTELLA ASSOCIATES, LLC

II. VALUATIONS

A. Appraisals

- 1. Eminent domain condemnation proceedings, negotiations for sale of utilities, damage claims for insurance and ad valorem tax and management purposes.
- 2. Determinations of original cost, replacement cost, reproduction cost and market value, including going concern value.
- 3. Calculation of the present value of cash flow under the income approach to market value determinations.
- 4. Analyses of market data under the sales comparison approach.

B. Depreciation

- 1. Actuarial studies using retirement rate or simulated plant balances methods to determine average service lives of physical property, theoretical depreciation reserve requirements and depreciation rates.
- 2. Establish affordable depreciation rates on the basis of comparative analyses of similar property of other utilities and practices of regulatory agencies and association

C. Feasibility Studies

- 1. Utility acquisitions by investors and municipalities.
- 2. Economic studies to establish extension of service costs and policy -- inside and outside service area.
- 3. Main extension agreements, guaranteed revenue contracts, refund provisions.

D. Financial Planning

- 1. Establish financing requirements for capital improvements.
- 2. Determine revenue and rate needs for various combinations of debt and equity financing.
- 3. Assist certain utilities in securing financing.
- 4. Establish financing needs, initial rates and regulatory approval of proposed new utilities.

III. MANAGEMENT

A. Operations

- 1. Provides general management of water and wastewater utilities.
- 2. Assist in day-to-day decisions as to utility accounting and related impact on rates.
- 3. Solve problems as to record keeping in accordance with regulatory requirements and prescribed systems of accounts.
- 4. Establish general policy and tariff provisions for customer service, billing, collecting, meter testing, complaint handling, and customer and regulatory relations.

B. Administrative

- 1. Coordinate activities with regulatory agencies to assure compliance with rules, regulations and orders.
- 2. Negotiations for purchase or sale of utility property and special contracts.

C. Training

- 1. On-the-job training for employees while working on various projects.
- 2. Special educational seminars on all aspects of utility rate settings, financing, valuation and rules.

PROFESSIONAL QUALIFICATIONS AND EXPERIENCE of JOHN F. GUASTELLA

B.S., Mechanical Engineering, Stevens Institute of Technology, 1962

Member:

American Water Works Association, Lifetime Member National Association of Water Companies New England Water Works Association, Lifetime Member

Committees:

AWWA, Water Rates Committee (Water Rates Manual M-1, 1983 Edition)
National Association of Regulatory Utility Commissioners (NARUC) and NAWC, Joint-Committee on Rate Design
NAWC, Rates and Revenues Committee
NAWC, Small Water Company Committee

Mr. Guastella is President of Guastella Associates, LLC ("formerly John F. Guastella Associates, Inc.") which provides management, valuation and rate consulting services for municipal and investor-owned utilities, as well as regulatory agencies. His clients include utilities in the states of Alaska, Arizona, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Kentucky, Maine, Maryland, Massachusetts, Missouri, Michigan, Montana, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Ohio, Pennsylvania, Rhode Island, South Carolina, Texas, and Virginia. He has provided consulting services that include all aspects of utility regulation and rate setting, encompassing revenue requirements, revenues, operation and maintenance expenses, depreciation, taxes, return on investment, cost allocation and rate design. He has performed depreciation studies for the establishment of average service lives and depreciation rates of utility property. He has performed appraisals of utility companies for management purposes and in connection with condemnation proceedings. He has also negotiated the sale of utility companies. He directs the general management of a water and wastewater utility in South Carolina.

Mr. Guastella served for more than four years as President of Country Knolls Water Works, Inc., a water utility that served some 5,500 customers in Saratoga County, New York. He also served as a member of the Board of Directors of the National Association of Water Companies.

Mr. Guastella has qualified and testified as an expert witness before regulatory agencies and municipal jurisdictions in the states of Alaska, Arizona, California, Connecticut, Delaware, Florida, Georgia, Illinois, Kentucky, Indiana, Maryland, Massachusetts, Missouri, Montana, Nevada, New Hampshire, New Mexico, New Jersey, New York, North Dakota, Ohio, Pennsylvania, Rhode Island, South Carolina, Texas and Virginia.

Prior to establishing his own firm, Mr. Guastella was employed by the New York State Public Service Commission for sixteen years. For two years he was involved in the regulation of electric and gas utilities, with the remaining years devoted to the regulation of water utilities. In 1970, he was promoted to Chief of Rates and Finance in the Commission's Water Division. In 1972, he was made Assistant Director of the Water Division. In 1974, he was appointed by Alfred E. Kahn, then Chairman of the Commission, to be Director of the Water Division, a position he held until he resigned from the Commission in August 1978.

At the Commission, his duties included the performance and supervision of engineering and economic studies concerning rates and service of many public utilities. As Director of the Water Division, he was responsible for the regulation of more than 450 water companies in New York State and headed a professional staff of 32 engineers and three technicians. A primary duty was to attend Commission sessions and advise the Commission during its decision making process. In the course of that process, an average of about fifty applications per year would be reviewed and analyzed. The applications included testimony, exhibits and briefs

involving all aspects of utility valuation and rate setting. He also made legislative proposals and participated in drafting Bills that were enacted into law: one expanded the N.Y. Public Service Commission's jurisdiction over small water companies and another dealt specifically with rate regulation and financing of developer-related water systems.

In addition to his employment and client experience, Mr. Guastella served as Vice-Chairman of the Staff-Committee on Water of the National Association of Regulatory Utility Commissioners (NARUC). This activity included the preparation of the "Model Record-Keeping Manual for Small Water Companies," which was published by the NARUC. This manual provides detailed instruction on the kinds of operation and accounting records that should be kept by small water utilities, and on how to use those records.

Each year since 1974 he has prepared study material, assisted in program coordination and served as an instructor at the Eastern Annual Seminar on Water Rate Regulation sponsored over the years by the NARUC in conjunction with the University of South Florida, Florida Atlantic University, the University of Utah, Florida State University, the University of Florida, Michigan State University, and currently by NARUC directly. In 1980 he was instrumental in the establishment of the Western NARUC Rate Seminar and has annually served as an instructor since that time. This course is recognized as one of the best available for teaching rate-setting principles and methodology. More than 8,000 students have attended this course, including regulatory staff, utility personnel and members of accounting, engineering, legal and consulting firms throughout the country.

Mr. Guastella served as an instructor and panelist in a seminar on water and wastewater regulation conducted by the Independent Water and Sewer Companies of Texas. In 1998, he prepared and conducted a seminar on basic rate regulation on behalf of the New England Chapter of the National Association of Water Companies. In 2000 and 2001, Mr. Guastella developed and conducted a special seminar for developer related water and wastewater utilities in conjunction with Florida State University, and again in 2003 in conjunction with the University of Florida. It provided essential training for the financial structuring of small water and wastewater utilities, rate setting, financing and the establishment of their market value in the event of a negotiated sale or condemnation. In 2004, he prepared and conducted a special workshop seminar on behalf of the Office of Regulatory Staff of South Carolina, covering rate setting, valuation and general regulation of water and wastewater utilities. In 2006, he participated in an expert workshop on full cost pricing conducted by the U. S. Environmental Protection Agency in coordination with the Institute of Public Utilities, Michigan State University. In 2006 and again in 2013, he prepared and conducted a special seminar on rate setting and valuation on behalf of the New York Chapter of the NAWC. In 2007 and again in 2015, he prepared and conducted a special seminar on rate setting and valuation on behalf of the New England Chapter of NAWC.

Mr. Guastella has made presentations on a wide variety of rate, valuation and regulatory issues at meetings of the National Association of Regulatory Utility Commissioners, the American Water Works Association, the New England Water Works Association, the National Association of Water Companies, the New England Conference of Public Utilities Commissioners, the Florida, New England, New Jersey and New York Chapters of NAWC, the Mid-America Regulatory Conference, the Southeastern Association of Regulatory Utility Commissioners, the Pennsylvania Environmental Conference, the Public Utility Law Section of the New Jersey Bar Association, the U.S. Environmental Protection Agency Expert Workshop, the NAWC Water Utility Executive Council, and the National Drinking Water Symposium.

Year	Client	State	Regulatory Docket/Case Number
1966	Sunhill Water Corporation	New York	23968
1967	Amagansett Water Company	New York	24210
1967	Worley Homes, Inc.	New York	24466
1968	Amagansett Water Company	New York	24718
1968	Amagansett Water Company	New York	24883
1968	Sunhill Water Corporation	New York	23968
1968	Worley Homes, Inc.	New York	Supreme Court
1969	Amagansett Water Supply	New York	24883
1969	Citizens Water Supply Co.	New York	25049
1969	Worley Homes, Inc.	New York	24466/24992
1970	Brooklyn Union Gas Company	New York	25448
1970	Consolidated Edison of New York	New York	25185
1971	Hudson Valley Water Companies	New York	26093
1971	Jamaica Water Supply Company	New York	26094
1971	Port Chester Water Works, Inc.	New York	25797
1971	U & I Corp Merrick District	New York	26143
1971	Wanakah Water Company	New York	25873
1972	Spring Valley Water Company	New York	26226
1972	U & I Corp Woodhaven District	New York	26232
1973	Citizens Water Supply Company	New York	26366
1978	Rhode Island DPU&C (Bristol County)	Rhode Island	1367A
1979	Candlewick Lake Utilities Co.	Illinois	76-0218
1979	Candlewick Lake Utilities Co.	Illinois	76-0347
1979	Candlewick Lake Utilities Co.	Illinois	78-0151
1979	Jacksonville Suburban Utilities	Florida	770316-WS
1979	New York Water Service Corporation	New York	27594
1979	Salem Hills Sewerage Disposal Corp. v. V. of Voorheesville	New York	Supreme Court

Year	Client	State	Regulatory Docket/Case Number
1979	Seabrook Water Corporation	New Jersey	7910-846
1979	Southern Utilities Corporation	Florida	770317-WS
1979	Township of South Brunswick	New Jersey	Municipal
1979	Westchester Joint Water Works	New York	Municipal
1979	Woodhaven Utilities Corporation	Illinois	77-0109
1980	Crestwood Village Sewer Company	New Jersey	BPU 802-78
1980	Crestwood Village Water Company	New Jersey	BPU 802-77
1980	Gateway Water Supply Corporation	Texas	Municipal
1980	GWW-Central Florida District	Florida	800004-WS
1980	Jamaica Water Supply Company	New York	27587
1980	Rhode Island DPU&C (Newport Water)	Rhode Island	1480
1981	Briarcliff Utilities, Inc.	Texas	3620
1981	Candlewick Lake Utilities Co.	Illinois	81-0011
1981	Caroline Water Company, Inc.	Virginia	810065
1981	GDU, Inc Northport	Florida	Municipal
1981	GDU, Inc Port Charlotte	Florida	Municipal
1981	GDU, Inc Port Malabar	Florida	80-2192
1981	Hobe Sound Water Company	Florida	8000776
1981	Lake Buckhorn Utilities, Inc.	Ohio	80-999
1981	Lake Kiowa Utilities, Inc.	Texas	3621
1981	Lakengren Utilities, Inc.	Ohio	80-1001
1981	Lorelei Utilities, Inc.	Ohio	80-1000
1981	New York Water Service Corporation	New York	28042
1981	Rhode Island DPU&C (Newport Water)	Rhode Island	1581
1981	Shawnee Hills Utility Company	Ohio	80-1002
1981	Smithville Water Company, Inc.	New Jersey	808-541
1981	Spring Valley Water Company, Inc.	New York	27936
1981	Spring Valley Water Company, Inc.	New York	27936
1981	Sunhill Water Corporation	New York	27903

Year	Client	State	Regulatory Docket/Case Number
1981	Swan Lake Water Corporation	New York	27904
1982	Chesterfield Commons Sewer Company	New Jersey	822-84
1982	Chesterfield Commons Water Company	New Jersey	822-83
1982	Crescent Waste Treatment Corp.	New York	Municipal
1982	Crestwood Village Sewer Company	New Jersey	821-33
1982	Crestwood Village Water Company	New Jersey	821-38
1982	Salem Hills Sewerage Disposal Corp.	New York	Municipal
1982	Township of South Brunswick	New Jersey	Municipal
1982	Woodhaven Utilities Corporation	Illinois	82-0167
1983	Country Knolls Water Works, Inc.	New York	28194
1983	Heritage Hills Water Works Corp.	New York	28453
1984	Crestwood Village Sewer Company	New Jersey	8310-861
1984	Crestwood Village Water Company	New Jersey	8310-860
1984	Environmental Disposal Corp.	New Jersey	816-552
1984	GDU, Inc Port St. Lucie	Florida	830421
1984	Heritage Village Water (water/sewer)	Connecticut	84-08-03
1984	Hurley Water Company, Inc.	New York	28820
1984	New York Water Service Corporation	New York	28901
1985	Deltona Utilities (water/sewer)	Florida	830281
1985	J. Filiberto Sanitation, Inc.	New Jersey	8411-1213
1985	Sterling Forest Pollution Control	New York	Municipal
1985	Water Works Enterprise, Grand Forks	North Dakota	Municipal
1986	GDU, Inc Port Charlotte	Florida	Municipal
1986	GDU, Inc Sebastian Highlands	Florida	Municipal
1986	Kings Grant Water/Sewer Companies (settled)	New Jersey	WR8508-868
1986	Mt. Ebo Sewage Works, Inc.	New York	Municipal
1986	Sterling Forest Pollution Control	New York	Municipal
1987	Country Knolls Water Works, Inc.	New York	29443
1987	Crestwood Village Sewer Co. (settled)	New Jersey	WR8701-38

Year	Client	State	Regulatory Docket/Case Number
1987	Deltona Utilities – Marco Island	Florida	85151-WS
1987	Deltona Utilities, Inc Citrus Springs (settled)	Florida	870092-WS
1987	First Brewster Water Corp. v. Town of Southeast (settled) New York	Supreme Court
1987	GDU, Inc Silver Springs Shores	Florida	870239-WS
1987	Ocean County Landfill Corporation	New Jersey	SR-8703117
1987	Palm Coast Utility Corporation	Florida	870166-WS
1987	Sanlando Utilities Corp. (settled)	Florida	860683-WS
1987	Township of South Brunswick	New Jersey	Municipal
1987	Woodhaven Utilities Corp. (settled)	Illinois	87-0047
1988	Crescent Estates Water Co., Inc.	New York	88-W-035
1988	Elizabethtown Water Co.	New Jersey	OAL PUC3464-88
1988	Heritage Village Water Company	Connecticut	87-10-02
1988	Instant Disposal Service, Inc.	New Jersey	SR-87080864
1988	J. Filiberto Sanitation v. Morris County Transfer Station	New Jersey	01487-88
1988	Ohio Water Service Co.	Ohio	86-1887-WW-CO1
1988	St. Augustine Shores Utilities	Florida	870980-WS
1989	Elizabethtown Water Co.	New Jersey	BPU WR89020132J
1989	GDU (FPSC generic proceeding as to rate setting procedures)	Florida	880883-WS
1989	Gordon's Corner Water Co.	New Jersey	OAL PUC479-89
1989	Heritage Hills Sewage Works	Connecticut	Municipal
1989	Heritage Village Water Company	Connecticut	87-10-02
1989	Palm Coast Utility Corporation	Florida	890277-WS
1989	Southbridge Water Supply Co.	Massachusetts	DPU 89-25
1989	Sterling Forest Water Co.	New York	PSC 88-W-263
1990	American Utilities, Inc United States Bankruptcy Cour	t New Jersey	85-00316
1990	City of Carson City	Nevada	Municipal
1990	Country Knolls Water Works, Inc.	New York	90-W-0458
1990	Elizabethtown Water Company	New Jersey	WR900050497J

Year	Client	State	Regulatory Docket/Case Number
1990	Kent County Water Authority	Rhode Island	1952
1990	Palm Coast Utility Corporation	Florida	871395-WS
1990	Southern States Utilities, Inc.	Florida	Workshop
1990	Trenton Water Works	New Jersey	WR90020077J
1990	Waste Management of New Jersey	New Jersey	SE 87070552
1990	Waste Management of New Jersey	New Jersey	SE 87070566
1991	City of Grand Forks	North Dakota	Municipal
1991	Gordon's Corner Water Co.	New Jersey	OAL PUC8329-90
1991	Southern States Utilities, Inc.	Florida	900329-WS
1992	Elizabethtown Water Co.	New Jersey	WR 91081293J
1992	General Development Utilities, Inc Port Malabar Division	Florida	911030-WS
1992	General Development Utilities, Inc West Coast Division	Florida	911067-WS
1992	Heritage Hills Water Works, Inc.	New York	92-2-0576
1993	General Development Utilities, Inc Port LaBelle Division	Florida	911737-WS
1993	General Development Utilities, Inc Silver Springs Shores	Florida	911733-WS
1993	General Waterworks of Pennsylvania - Dauphin Cons. Water Supply	Pennsylvania	R-00932604
1993	Kent County Water Authority	Rhode Island	2098
1993	Southern States Utilities - FPSC Rulemaking	Florida	911082-WS
1993	Southern States Utilities - Marco Island	Florida	920655-WS
1994	Capital City Water Company	Missouri	WR-94-297
1994	Capital City Water Company	Missouri	WR-94-297
1994	Elizabethtown Water Company	New Jersey	WR94080346
1994	Elizabethtown Water Company	New Jersey	WR94080346
1994	Environmental Disposal Corp.	New Jersey	WR94070319
1994	General Development Utilities - Port Charlotte	Florida	940000-WS
1994	General Waterworks of Pennsylvania	Pennsylvania	R-00943152

Year	Client	State	Regulatory Docket/Case Number
1994	Hoosier Water Company - Mooresville Division	Indiana	39839
1994	Hoosier Water Company - Warsaw Division	Indiana	39838
1994	Hoosier Water Company - Winchester Division	Indiana	39840
1994	West Lafayette Water Company	Indiana	39841
1994	Wilmington Suburban Water Corporation	Delaware	94-149 (stld)
1995	Butte Water Company	Montana	Cause 90-C-90
1995	Heritage Hills Sewage Works Corporation	New York	Municipal
1996	Consumers Illinois Water Company	Illinois	95-0342
1996	Elizabethtown Water Company	New Jersey	WR95110557
1996	Palm Coast Utility Corporation	Florida	951056-WS
1996	PenPac, Inc.	New Jersey	OAL-00788-93N
1996	Southern States Utilities, Marco Island	Florida	950495-WS
1997	Crestwood Village Water Company	New Jersey	BPU 96100739
1997	Indiana American Water Co., Inc.	Indiana	IURC 40703
1997	Missouri-American Water Company	Missouri	WR-97-237
1997	South County Water Corp	New York	97-W-0667
1997	United Water Florida	Florida	960451-WS
1998	Consumer Illinois Water Company	Illinois	98-0632
1998	Consumers Illinois Water Company	Illinois	97-0351
1998	Heritage Hills Water Company	New York	97-W-1561
1998	Missouri-American Wastewater Company	Missouri	SR-97-238
1999	Consumers Illinois Water Company	Illinois	99-0288
1999	Environmental Disposal Corp.	New Jersey	WR99040249
1999	Indiana American Water Co., Inc.	Indiana	IURC 41320
2000	South Haven Sewer Works, Inc.	Indiana	Cause: 41410
2000	Utilities Inc. of Maryland	Maryland	CAL 97-17811
2001	Artesian Water Company	Delaware	00-649
2001	Citizens Utilities Company	Illinois	01-0001
2001	Elizabethtown Water Company	New Jersey	WR-0104205

Year	Client	State	Regulatory Docket/Case Number
2001	Kiawah Island Utility, Inc.	South Carolina	2001-164-W/S
2001	Placid Lakes Water Company	Florida	011621-WU
2001	South Haven Sewer Works, Inc.	Indiana	41903
2001	Southlake Utilities, Inc.	Florida	981609-WS
2002	Artesian Water Company	Delaware	02-109
2002	Consumers Illinois Water- Grant Park	Illinois	02-0480
2002	Consumers Illinois Water- Village Woods	Illinois	02-0539
2002	Valencia Water Company	California	02-05-013
2003	Consumers Illinois Water - Indianola	Illinois	03-0069
2003	Elizabethtown Water Company	New Jersey	WR-030-70510
2003	Golden Heart Utilities, Inc.	Alaska	U-02-13, 14 & 15
2003	Utilities, Inc. – Georgia	Georgia	CV02-0495-AB
2004	Aquarion Water Company	Connecticut	04-02-14
2004	Artesian Water Company	Delaware	04-42
2004	El Dorado Utilities, Inc.	New Mexico	D-101-CU-2004-
2004	Environmental Disposal Corp.	New Jersey	DPU WR 03 070509
2004	Heritage Hills Water Company	New York	03-W-1182
2004	Sun Valley Water & Washoe County Dept. of Water Revenues	Nevada	TMWA Municipal
2004	Jersey City MUA	New Jersey	Municipal
2004	Rockland Electric Company	New Jersey	EF02110852
2005	Aquarion Water Company	New Hampshire	DW 05-119
2005	Intercoastal Utilities, Inc.	Florida	04-0007-0011-0001
2005	Haig Point Utility Company, Inc.	South Carolina	2005-34-W/S
2005	South Central Connecticut Regional Water Auth.	Connecticut	Municipal
2006	Pennichuck Water Works, Inc.	New Hampshire	DW-04048
2006	Village of Williston Park	New York	Municipal
2006	Jersey City MUA	New Jersey	Municipal
2006	Groton Utilities	Connecticut	Municipal

Year	Client	State	Regulatory Docket/Case Number
2006	Connecticut Water Company	Connecticut	06-07-08
2006	Birmingham Utilities, Inc.	Connecticut	06-05-10
2006	Aqua Florida Utilities, Inc.	Florida	060368-WS
2007	Aquarion Water Company of CT	Connecticut	07-05-19
2007	Pennichuck Water Works, Inc.	New Hampshire	DW 04-048
2007	Aqua Indiana - Utility Center	Indiana	43331
2007	Environmental Disposal Corp.	New Jersey	WR 04 080760
2007	Aqua Florida Utilities, Inc.	Florida	07-0183
2007	Aqua Illinois, Inc Hawthorn Woods, Willowbrook & Vermilion	Illinois	07-0620/07-0621/08-0067
2008	Aqua Florida Utilities, Inc.	Florida	080121-WS
2008	Aquarion Water Company of MA	Massachusetts	D.P.U. 08-27
2008	Haig Point Utility Company, Inc.	South Carolina	2007-414-WS
2009	R.M.V. Land & C.M. Livestock, L.C.C.	New Jersey	EM02050313
2010	City of Griffin	Georgia	Civil Action No. 09V-2866
2010	Connecticut Water Company	Connecticut	09-12-11
2010	Montville WPCA	Connecticut	1400012464
2010	Milford Water Company	Massachusetts	DPU 10-78
2010	Arizona American Water Company	Arizona	W-01303A-10-0448
2011	Aqua Illinois	Illinois	ICC Docket (Consolidated)
2011	Artesian Water Company	Maryland	MPSC Case 9252
2011	Artesian Water Company	Delaware	PSC 11-207
2011	Kiawah Island Utility, Inc.	South Carolina	2011-317-WS
2012	Washington Gas Light	Maryland	Senate SB541
2012	Washington Gas Light	Maryland	House HB662
2012	Daufuskie Island Utility	South Carolina	2011-229-W/S
2012	Milford Water Company	Massachusetts	DPU 12-86
2013	Artesian Water Company	Pennsylvania	2:10-CV-07453-JP
2013	Aquarion Water Company - Oxford	Massachusetts	CA 09-00592E

Year	Client	State	Regulatory Docket/Case Number
2013	Water Management Services	Florida	110200-WU
2013	City of Fernandina Beach	Florida	Civil Action No. 13CA000485AXYX
2013	City of Elizabeth	New Jersey	Docket Nos. UNN-L-0556-10 and UNN-L-2608-11
2014	Daufuskie Island Utility Company, Inc.	South Carolina	Case No. 2013-CP-7-02255
2014	Artesian Water Company	Delaware	Docket No. PSC 14-132
2014	Aquarion Water Company - Hingham	New Hampshire	SUCU 2013-03159-BLS2
2015	EPCOR	Arizona	ACC Docket # WS-01303A-14-0010
2015	Mountain Water Company	Montana	Case # DV-14-352
2015	Daufuskie Island Utility Company, Inc.	South Carolina	Docket No. 2014-346-WS
2015	Housatonic Water Works	Massachusetts	D.P.U. 15-179
2016	Epcor Water Arizona	Arizona	Docket No. W501303A-16-0145
2016	Community Utilities of Indiana	Indiana	Case No. 44724
2016	Utilities Inc. of Florida	Florida	Docket No. 16101-WS
2017	Epcor Water Arizona	Arizona	Docket No. W10303A-17-0141
2017	Aquarion Water Company of Massachusetts	Massachusetts	D.P.U. 17-90
2017	Milford Water Company	Massachusetts	D.P.U. 17-107
2018	Water Services Corp. of Kentucky	Kentucky	Case No. 2018-00208
2018	Epcor Water New Mexico, Inc.	New Mexico	Case No. 18_00124-UT
2019	Daufuskie Island Utility Company, Inc.	South Carolina	Docket No. 2018-364
2020	Epcor-Johnson Utilities, LLC	Arizona	Docket No. WS-02987A-20
2020	Valley Water Systems, Inc.	Connecticut	Docket No. 20-11-14
2021	EPCOR of Arizona Inc.	Arizona	Docket No. WS-01303A-20-0177
2021	Epcor Water Arizona, Inc, San Tan	Arizona	Docket. Nos. WS-02987A-20-0025 WS-01303A-20-0025

John F. Guastella Papers and Presentations

Year	Title	Forum
1974 through 2021	Basics of Rate Setting Cost Allocation and Rate Design Revenue Requirements	Semi-annual seminars on utility rate regulation, National Association of Regulatory Utility Commissioners, sponsored by the University of South Florida, the University of Utah, Florida State University, The University of Florida and Michigan State University, and currently the NARUC Water Committee.
1974	Rate Design Studies: A Regulatory Point-of- View	Annual convention of the National Association of Water Companies, New Haven, Connecticut
1976	Lifeline Rates	Annual convention of the National Association of Water Companies, Chattanooga, Tennessee
1977	Regulating Water Utilities: The Customers' Best Interest	Annual symposium of the New England Conference of Public Utilities Commissioners, Mystic Seaport, Connecticut
1978	Rate Design: Preaching v. Practice	Annual convention of the National Association of Water Companies, Baton Rouge, Louisiana
1979	Small Water Companies	Annual symposium of the New England Conference of Public Utilities Commissioners, Newport, Rhode Island
1979	Rate Making Problems Peculiar to Private Water and Sewer Companies	Special educational program sponsored by Independent Water and Sewer Companies of Texas, Austin, Texas
1980	Water Utility Regulation	Annual meeting of the National Association of Regulatory Utility Commissioners, Houston, Texas
1981	The Impact of Water Rates on Water Usage	Annual Pennsylvania Environmental Conference, Harrisburg, Pennsylvania
1981	A Realistic Approach to Regulating Water Utilities	Mid-America Regulatory Conference, Clarksville, Indiana
1982	Issues in Water Utility Regulation	Annual symposium of the New England Conference of Public Utilities Commissioners, Rockport, Maine
1982	New Approaches to the Regulation of Water Utilities	Southeastern Association of Regulatory Utility Commissioners, Asheville, North Carolina
1983	Allocating Costs and Revenues Fairly and Effectively	Maryland Water and Sewer Finance Conference, Westminster, Maryland
1983	Lifeline and Social Policy Pricing	Annual conference of the American Water Works Association, Las Vegas, Nevada (published)
1984	The Real Cost of Service: Some Special Considerations	Annual New Jersey Section AWWA Spring Meeting, Atlantic City, New Jersey
1987	Margin Reserve: It's Not the Issue	Florida Waterworks Association Newsletter, April/May/June 1987 issue

John F. Guastella Papers and Presentations

Year	Title	Forum								
1987	A "Current" Issue: CIAC	NAWC - New England Chapter November 6, 1987 meeting								
1988	Small Water Company rate Setting: Take It or Leave It	NAWC - New York Chapter June 14, 1988 meeting								
1989	The Solution to all the Problems of Good Small Water Companies	NAWC Quarterly magazine, Winter issue								
1989	Current Issues Workshop - Panel	New England Conference of Public Utilities Commissioners, Kennebunkport, Maine								
1991	Alternative Rate Structures	New Jersey Section 1991 Annual Conference, AWWA, Atlantic City, New Jersey								
1994	Conservation Impact on Water Rates	New England NAWC and New England AWWA, Sturbridge, Massachusetts								
1996	Utility Regulation - 21st Century	NAWC Annual Meeting, Orlando, Florida								
1997	Current Status Drinking Water State Revolving Fund	NAWC Annual Meeting, San Diego, California								
1998	Small Water Companies - Problems and Solutions	NAWC Annual Meeting, Indianapolis, Indiana								
1998	Basic Rate Regulation Seminar	New England Chapter - NAWC, Rockport, Maine								
2000	Developer Related Water and Sewer Utilities Seminar	Florida State University, Orlando, Florida								
2001	Developer Related Water and Sewer Utilities Seminar	Florida State University, Orlando, Florida								
2002	Regulatory Cooperation - Small Company Education	New England Chapter - NAWC, Annual Meeting								
2003	Developer Related Water and Sewer Utilities Seminar	University of Florida, Orlando, Florida								
2004	Basic Regulation & Rate Setting Training Seminar	Office of Regulatory Staff, Columbia, South Carolina								
2005	Municipal Water Rates	Nassau-Suffolk Water Commissioners Association, Franklin Square, New York								
2005	Innovations in Rate Setting and Procedures	NAWC New York Chapter, West Point, New York								

John F. Guastella Papers and Presentations

Year Title 2006 Basics of Rate Setting 2006 Innovations in Rate Setting and Procedures		Forum
2006	Basics of Rate Setting	The Connecticut Water Company, Clinton, Connecticut
2006	Innovations in Rate Setting and Procedures	NAWC New York Chapter, Catskill, New York
2006	Best Practices as Regulatory Policy	NAWC New England Chapter, Ogunquit, Maine
2006	Rate and Valuation Seminar	NAWC New York Chapter
2006	Full Cost Pricing	U.S. Environmental Protection Agency Expert Workshop, Lansing, Michigan
2006	Innovations in Rate Setting	NAWC New England Chapter, Portsmouth, New Hampshire
2007	Weather Sensitive Customer Demands	NAWC Water Utility Executive Council, Half Moon Bay, California
2007	Basics of Rate Setting and Valuation Seminar	NAWC New England Chapter, Ogunquit, Maine
2007	Small Company Characteristics	National Drinking Water Symposium, La Jolla, California
2013	Rate and Valuation Seminar	NAWC New York Chapter
2015	Rate and Valuation Seminar	NAWC New England Chapter

PROFESSIONAL QUALIFICATIONSAND EXPERIENCE Of GARY C. WHITE

B.S., Business Administration, Accounting, Valparaiso University, 1972

Member:

American Water Works Association

Over his professional career, Mr. White has been involved in various aspects of business management, accounting and finance. Since 1984, his experience has been in the area of utility management and rate regulation for water and wastewater systems. During this period he was responsible for the rate regulation department of the largest privately-owned water and wastewater utility in Florida, managed an investor-owned utility in upstate New York, and has been employed as a utility consultant.

Mr. White has extensive experience in utility ratemaking. He has prepared numerous rate studies providing cost of service and revenue requirement analyses for water and wastewater systems. He has performed cost allocation and bulk service analyses; revenue requirement forecasts; population growth and system capacity projections; and various plant operation and resource management evaluations. He has had experience with privately-owned and municipal utility systems. He also served as an instructor at a seminar for developer related water and sewer utilities, conducted by Florida State University and the University of Florida.

Mr. White has presented testimony in Connecticut, Florida, New Jersey, New York and South Carolina. He has qualified as an expert witness before several municipal regulatory agencies in the State of Florida, the New York Public Service Commission, Connecticut Department of Public Utilities Control, New Jersey Board of Public Utilities and the South Carolina Public Service Commission. He has appeared at both regulatory and municipal hearings representing investor-owned utilities on matters of ratemaking, regulation, rate design, finance, and utility management. Mr. White has also been active as a speaker on these subjects for community organizations and civic organizations.

PROFESSIONAL QUALIFICATIONSAND EXPERIENCE

Of

GARY C. WHITE

Year	Client	State
1985	General Development Utilities, Inc. – Port Charlottee	Florida
1986	General Development Utilities, Inc. – Silver Spring Shores	Florida
1986	General Development Utilities, Inc. – Port LeBelle	Florida
1987	General Development Utilities, Inc. – Sebastian Cove	Florida
1987	General Development Utilities, Inc. – Port Charlotte	Florida
1988	General Development Utilities, Inc. – Port St. Lucie	Florida
1988	General Development Utilities, Inc. – North Port	Florida
1989	General Development Utilities, Inc. – Port Malabar	Florida
1991	Country Knolls Water Works, Inc.	New York
1994	Environmental Disposal Corp.	New Jersey
1995	Environmental Disposal Corp.	New Jersey
1995	Hobe Sound Water Co.	Florida
1995	Heritage Hills Sewerage Works	New York
1996	Pen Pac Waste Disposal Co.	New Jersey
1996	Connecticut American Water Co.	Connecticut
1997	Crestwood Village Water Company	New York
1997	Pen Pac Waste Disposal Co.	New Jersey
1997	Hobe Sound Water Co.	Florida
1999	Environmental Disposal Corp.	New Jersey
2000	Placid Lakes Utilities, Inc.	Florida
2002	Kiawah Island Utility, Inc.	South Carolina
2003	Heritage Hills Water Works	New York
2004	Environmental Disposal Corp.	New Jersey
2004	Aquarion Water Co.	Connecticut
2005	Haig Point Utilities, Inc.	South Carolina
2011	Kiawah Island Utility, Inc.	South Carolina
2012	Daufuskie Island Utility Company	South Carolina
2014	Heritage Village – PURA Docket No. 14-11-07	Connecticut
2015	Daufuskie Island Utility Company – PSC Docket No. 2014-346-WS	South Carolina
2015	Housatonic Water Works Company	Massachusetts
2017	Milford Water Company – D.P.U. M-107	Massachusetts
2018	Hutchinson Water Company, LLC D.P.U. 18-156	Massachusetts

MIDDLESEX WATER COMPANY

Schedules in Support of Cost of Service Study

MIDDLESEX WATER COMPANY

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MIDDLESEX WATER COMPANY

FUNCTIONAL ALLOCATION TO CUSTOMER CLASSES

Function		Total		Residential		Commercial		Industrial		Wholesale 1 (East Brunswick)		Wholesale 2 (Edison / Hld Pk)		Wholesale 3 (Rahway)		Wholesale 4 (So. River Basin)		Fire Ser	vice Hydrants	
																		Capacity		
Base Extra Capacity	\$	87,483,202	\$	39,061,156	\$	12,448,844	\$	8,775,063	\$	5,098,576	\$	2,670,046	\$	874,696	\$	10,018,586	\$	3,444,995	\$ 5,091,2	39
Small Mains		203,617		139,501		64,116		-		-		-		-		-		-	-	
Contract Meters		1,237,239		-		-		-		150,572		203,031		-		883,636		-	-	
Customer:																				
Meters		9,739,762		5,262,829		1,381,545		652,124		-		-		-		-		2,443,264	-	,
Services		7,037,325		5,717,650		729,765		150,303		-		-		-		-		439,607	-	
Billing & Accounting		5,467,522		4,609,667		559,327		65,610		-		547		-		547		228,542	3,2	.81
Hydrants		2,957,606		-		-		-		-		-		-		-		-	2,957,6	06
Total	\$	114,126,271	\$	54,790,803	\$	15,183,598	\$	9,643,100	\$	5,249,148	\$	2,873,624	\$	874,696	\$	10,902,769	\$	6,556,409	\$ 8,052,1	26
Misc. Revenues	\$	(227,236)	\$	(109,094)	\$	(30,232)	\$	(19,200)	\$	(10,452)	\$	(5,722)	\$	(1,742)	\$	(21,708)	\$	(13,054)	\$ (16,0	33)
Sales Revenue	\$	113,899,035	\$	54,681,709	\$	15,153,366	\$	9,623,899	\$	5,238,696	\$	2,867,902	\$	872,955	\$	10,881,061	\$	6,543,354	\$ 8,036,0	93

ALLOCATION OF PRO FORMA BASE, EXTRA CAPACITY AND TOTAL REVENUE REQUIREMENT TO CUSTOMER CLASSES

							١	Wholesale 1	١	Wholesale 2	Wholesale 3	V	Vholesale 4		Fire Serv	ice
Function		Total	Factor	Residential	Commercial	Industrial	(Ea	ast Brunswick)	(Ec	dison / HId Pk)	(Rahway)	(So	. River Basin)	Ca	pacity	Hydrants
UTILITY OPERATING INCOME	\$	26,520,241	58	\$ 11,807,951	\$ 3,474,292	\$ 2,386,715	\$	1,524,955	\$	580,252	\$ 300,411	\$	3,317,134	\$ 1,	,246,188	\$ 1,882,34
OPERATION & MAINTENANCE DEPRECIATION AMORTIZATION EXPENSE PROPERTY TAXES-SOURCE PROPERTY TAXES-PUMPING D&R RWPS PROPERTY TAXES-PUMPING OTHER PROPERTY TAXES-TREATMENT PROPERTY TAXES-TRORAGE PROPERTY TAXES-TRANSMISSION MAINS PROPERTY TAXES-GENERAL PLANT		35,189,592 11,382,482 2,560 456,560 24,407 36,691 687,712 93,323 11,805 212,413	55 57 51 43 51 51 54 71 57	15,423,166 4,896,947 1,229 265,754 7,202 21,357 400,303 55,583 5,430 101,977	5,357,975 1,451,558 361 77,734 2,350 6,247 117,090 3,518 1,542 29,921	3,875,687 997,783 247 53,404 1,638 4,292 80,442 691 1,051 20,534		2,513,948 927,277 119 - 4,826 - - - - 9,871		1,332,214 350,222 45 - 1,821 - - - - 3,732	318,351 121,236 21 - 360 - - - 194 1,763		3,817,597 1,330,490 235 - 3,911 - - 2,108 19,466		050,220 520,655 121 23,223 2,299 1,866 34,980 12,253 595 10,009	1,500,43 786,31 18 36,44 - 2,92 54,89 21,27 88 15,14
PAYROLL TAXES FRANCHISE & OTHER INCOME TAX		956,872 11,152,145 756,401	85 80 58	428,955 4,931,338 336,782	150,386 1,573,824 99,092	109,563 1,110,395 68,073		74,086 744,914 43,494		28,102 337,926 16,550	7,245 110,767 8,568		92,296 1,267,853 94,610		27,468 433,255 35,543	38,77 641,87 53,68
TOTAL BASE, EXTRA CAPACITY PORTION		87,483,202	80	38,683,974	12,345,888	8,710,514		5,843,489		2,650,864	868,917		9,945,699	3,	,398,674	5,035,18
PERCENTS		100.00%	80	44.22%	14.11%	9.96%		6.68%		3.03%	0.99%		11.37%		3.88%	5.76
Small Mains Meters-Wholesale Meters-Retail Services-Retail Billing Fire Hydrants Adjust FRANCHISE TAX to Excl E. Brunswick		203,617 1,237,239 9,739,762 7,037,325 5,467,522 2,957,606	48 66 68 69 67 70	139,501 - 5,262,829 5,717,650 4,609,667 - 377,181	64,115.97 	652,124 150,303 65,610 - 64,549		150,572 - - - - - - (744,914)		203,031 - - 547 - 19,182	- - - - - - 5,779		883,636 - 547 - 72,887		- ,443,264 439,607 228,542 - 46,321	- 3,28 2,957,60 56,05
TOTAL REVENUE REQUIREMENT	\$ 1	114,126,271		\$ 54,790,803	\$ 15,183,598	\$ 9,643,100	\$	5,249,148	\$	2,873,624	\$ 874,696	\$	10,902,769	\$ 6,	,556,409	\$ 8,052,12
LESS MISC. REVENUES		227,236		109,094	30,232	19,200		10,452		5,722	1,742		21,708		13,054	16,03
REVENUE FROM SALES	\$ 1	113,899,035		\$ 54,681,709	\$ 15,153,366	\$ 9,623,899	\$	5,238,696	\$	2,867,902	\$ 872,955	\$	10,881,061	\$ 6,	,543,354	\$ 8,036,09
PERCENTS		100.00%		48.01%	13.30%	8.45%		4.60%		2.52%	0.77%		9.55%		5.74%	7.06

ALLOCATION OF BASE, EXTRA CAPACITY AND TOTAL RATE BASE ELEMENTS TO CUSTOMER CLASSES

						Wholesale 1	Wholesale 2	Wholesale 3	Wholesale 4	Fire Servi	ce
Function	Total	Factor	Residential	Commercial	Industrial	(East Brunswick)	(Edison / Hld Pk)	(Rahway)	(So. River Basin)	Capacity	Hydrants
UTILITY PLANT - Base, Extra Capacity	\$ 520,289,545	57	\$ 232,732,293 44.73%	\$ 68,283,701 13.12%	\$ 46,863,622 9.01%	\$ 31,398,467 6.03%	\$ 11,873,968 2.28%	\$ 5,605,290 1.08%	\$ 61,927,050 11.90%	\$ 24,514,879 4.71%	\$ 37,090,276 7.13%
UPIS ALLOCATED TO SUBSIDIARIES	-	57	-	-	-	-	-	-	-	-	-
INTANGIBLE ASSETS (prepaids/deposits)	-	57	-	-	-	-	-	-	-	-	-
ACCUMULATED DEPRECIATION	(110,286,506)		(48,546,522)	(14,222,867)	(9,761,471)	(8,698,439)	(3,290,746)	(1,056,216)	(11,743,059)	(5,157,003)	(7,810,183)
ADVANCES FOR CONSTRUCTION	(2,427,650)	51	(1,413,087)	(413,332)	(283,962)	-	-	-	-	(123,482)	(193,787)
CIAC - TRANSMISSION MAINS CIAC - OTHER	(8,640,577) (9,420,031)	71 51	(3,974,147) (5,483,212)	,	(769,616) (1,101,861)	- -	- -	(141,878) -	(1,543,121) -	(435,485) (479,150)	(647,698) (751,954)
DEFERRED INCOME TAXES	(15,958,987)	57	(7,138,662)	(2,094,485)	(1,437,461)	(963,095)	(364,213)	(171,933)	(1,899,506)	(751,952)	(1,137,681)
DEFERRED ITC	-	57	-	-	-	-	-	-	=	-	-
MATERIAL & SUPPLIES	4,490,342		2,248,374	650,690	445,755	21,320	8,092	46,378	507,729	223,161	338,842
CASH WORKING CAPITAL	4,847,162	55	2,124,463	738,029	533,866	346,281	183,514	43,867	525,869	144,639	206,635
ROAD OPENING PERMIT DEPOSIT	381,068	71	175,268	49,775	33,942	-	-	6,257	68,055	19,206	28,565
INJURIES & DAMAGES RESERVE	(23,764)	57	(10,630)	(3,119)	(2,140)	(1,434)	(542)	(256)	(2,828)	(1,120)	(1,694)
PENSION / RETIREMENT PLAN RESERVE	(2,879,754)	85	(1,356,940)	(425,340)	(288,839)	(231,532)	(87,832)	(22,750)	(262,922)	(80,057)	(123,541)
UNAMORTIZED ACQUISITION ADJUSTMENT	120,435	57	53,872	15,806	10,848	7,268	2,749	1,297	14,335	5,675	8,586
TOTAL BASE, EXTRA CAPACITY PORTION	\$ 380,491,284	58	\$ 169,411,071	\$ 49,846,373	\$ 34,242,682	\$ 21,878,837	\$ 8,324,989	\$ 4,310,056	\$ 47,591,602	\$ 17,879,310	\$ 27,006,365
PERCENTS	100.00%	58	44.52%	13.10%	9.00%	5.75%	2.19%	1.13%	12.51%	4.70%	7.10%

ALLOCATION OF UTILITY PLANT TO CUSTOMER CLASSES

	Function	Total		Factor				Residential	Commercial	Industrial	Wholesale 1 (East Brunswick)	Wholesale 2 (Edison / Hld Pk)	Wholesale 3 (Rahway)	Wholesale 4 (So. River Basin)	Fire Servi Capacity	ce Hydrants
395.000 310.000	Lab Equipment	\$ 1,417,619 16,968	1.1 1.1	46 47	BASE BASE	USE	ALL FRANCHISE	\$ 413,519 9,103	\$ 189,961 4,184	\$ 147,716	\$ 285,934	\$ 107,881	\$ 21,264	\$ 231,781	\$ 11,908 260	\$ 7,655 170
310.000	Water Rights - Other Water Rights - CJO	105,088	1.2	40	BASE	PROD	NO EB	35,268	16,205	3,251 12,611	=	11,759	2,322	25,263	998	662
316.000	Supply Mains-Other	1,644,909	2.1	49	B/M	USE	FRANCHISE	953,554	318,454	224,201	-	-	-	- 7000	60,368	88,332
314.000 321.000	Wells - CJO Structures - CJO Thermal	38,859 1,094	2.2	42 42	B/M B/M	PROD PROD	NO EB NO EB	14,638 412	4,803 135	3,369 95	-	3,719 105	734 21	7,989 225	1,449 41	2,157 61
325.000	Electric Pumping Equipment - CJO Thermal	9,486	2.2	42	B/M	PROD	NO EB	3,573	1,172	822		908	179	1,950	354	526
310.000 311.000	ROW - Supply Main Supply Structures-D&R	11,152 281,282	2.2	43 43	B/M B/M	PROD PROD	ALL ALL	3,291 83,001	1,074 27,079	749 18,880	2,205 55,624	832 20,986	164 4,149	1,787 45,073	421 10,630	629 15,861
313.000	Intakes	381,429	2.2	43	B/M	PROD	ALL	112,552	36,720	25,602	75,428	28,458	5,626	61,120	14,414	21,509
316.000 320.000	Supply Mains-D&R Land - D&R	8,956,480 2,947	2.2	43 43	B/M B/M	PROD PROD	ALL ALL	2,642,878 870	862,240 284	601,159 198	1,771,144 583	668,243 220	132,108 43	1,435,186 472	338,465 111	505,056 166
321.000	Structures - D&R	2,753,758	2.2	43	B/M	PROD	ALL	812,579	265,104	184,832	544,556	205,458	40,618	441,262	104,065	155,284
325.000 325.000	Electric Pumping Equipment - D&R Electric Pumping Equipment - CJO Filter	2,015,322 3,755,451	2.2	43 43	B/M B/M	PROD PROD	ALL ALL	594,681 1,108,158	194,015 361,537	135,268 252,066	398,530 742,640	150,363 280,194	29,726 55,393	322,935 601,773	76,159 141,918	113,644 211,770
330.000	Land - CJO	143,861	2.2	43	B/M	PROD	ALL	42,451	13,849	9,656	28,449	10,733	2,122	23,052	5,437	8,112
331.000	Structures - CJO	60,433,666	2.2	43	B/M	PROD	ALL	17,832,766	5,817,949	4,056,308	11,950,757	4,508,956	891,397	9,683,891	2,283,788	3,407,854
332.000 346.200	Water Treatment Equipment - CJO Meters-Other	53,733,573 58,464	2.2	43 43	B/M B/M	PROD PROD	ALL ALL	15,855,703 17,252	5,172,931 5,628	3,606,597 3,924	10,625,814 11,561	4,009,062 4,362	792,570 862	8,610,268 9,368	2,030,592 2,209	3,030,036 3,297
325.000	Electric Pumping Equipment - East Brunswick	6,258	4.1	37	B/M/P	USE	WS1				6,258					
343.000 320.000	T&D Mains - East Brunswick Land - Oak St	76,982 6,272	4.1 4.1	37 39	B/M/P B/M/P	USE	WS1 WS4	ĺ			76,982			6,272		
321.000	Structures - Oak St Booster	56,127	4.1	39	B/M/P	USE	WS4	1						56,127		
325.000 325.000	Electric Pumping Equipment - Oak St Electric Pumping Equipment - North Meter Pit	153,628 419	4.1 4.1	39 39	B/M/P B/M/P	USE	WS4 WS4	ĺ						153,628 419		
331.000	Structures - North Meter Pit	13,551	4.1	39	B/M/P	USE	WS4	1						13,551		
332.000 332.000	Water Treatment Equipment - No. Meter Pit Water Treatment Equipment - Tices Lane	4,582 2,766	4.1 4.1	39 39	B/M/P B/M/P	USE	WS4 WS4							4,582 2,766		
340.000	Land - ROW SRB	583,859	4.1	39	B/M/P	USE	WS4							583,859		
343.000 343.000	T&D Mains - Oak St PS	80,494	4.1	39	B/M/P B/M/P	USE	WS4 WS4							80,494		
310.000	T&D Mains - North Meter Pit Well Field Land	8,186 166,511	4.1 4.1	39 51	B/M/P	USE	FRANCHISE	96,923	28,350	19,477	-	_	-	8,186 -	8,470	13,292
311.000	Supply Structures-Other	1,026,026	4.1	51	B/M/P	USE	FRANCHISE	597,229	174,691	120,014	-	-	-	-	52,189	81,903
314.000 320.000	Wells-Other Land - Other	608,635 82,970	4.1 4.1	51 51	B/M/P B/M/P	USE	FRANCHISE FRANCHISE	354,274 48,295	103,626 14,126	71,192 9,705	-	-	-	-	30,958 4,220	48,584 6,623
321.000	Structures - Other Pumping	4,404,589	4.1	51	B/M/P	USE	FRANCHISE	2,563,823	749,925	515,205	-	-	-	-	224,039	351,596
323.000 325.100	Power Production Equipment - Other Electric Pumping Equipment - Other	655,520 9,044,023	4.1 4.1	51 51	B/M/P B/M/P	USE	FRANCHISE FRANCHISE	381,565 5,264,345	111,609 1,539,835	76,676 1,057,879	-	-	-		33,343 460,024	52,327 721,939
328.000	Other Pumping Equipment	760,594	4.1	51	B/M/P	USE	FRANCHISE	442,727	129,499	88,967	-	-	-	-	38,688	60,714
331.000 332.000	Structures - Other Water Treatment Equipment - Other	1,129,085 2,265,234	4.1 4.1	51 51	B/M/P B/M/P	USE	FRANCHISE FRANCHISE	657,218 1,318,547	192,238 385,679	132,069 264,964	-	-	-	-	57,431 115,221	90,129 180,822
340.000	Land - ROW Other	155,805	4.1	51	B/M/P	USE	FRANCHISE	90,691	26,527	18,225	-	-	-	-	7,925	12,437
343.000 349.000	Distribution Mains Other T&D	110,422,283 1,205,028	4.1 4.1	51 51	B/M/P B/M/P	USE	FRANCHISE FRANCHISE	64,274,602 701,423	18,800,498 205,168	12,916,094 140,952	-	-	-	-	5,616,629 61,294	8,814,459 96,191
343.000	Transmission Mains	182,505,712	4.1	71	B/M/P	USE	NO EB, E/HP	83,941,677	23,838,896	16,255,784	-	-	2,996,744	32,593,695	9,198,288	13,680,628
321.000 323.000	Structures - CJO Booster Power Production Equipment - CJO	4,442,067 3,530,607	4.2 4.2	44 44	B/M/P B/M/P	PROD PROD	ALL ALL	1,401,916 1,114,260	381,574 303,279	257,196 204,422	834,220 663,048	314,943 250,320	62,189 49,428	676,083 537,358	209,666 166,645	304,282 241,847
325.000	Electric Pumping Equipment - CJO Booster	2,225,118	4.2	44	B/M/P	PROD	ALL	702,247	191,138	128,834	417,877	157,761	31,152	338,663	105,026	152,421
343.000	T&D Mains - CJO PS	326,397	4.2	44	B/M/P	PROD	ALL	103,011	28,038	18,898	61,297	23,142	4,570	49,678	15,406	22,358
343.000 340.000	T&D Mains - Edison & HP Land - ROW 48" Main	437,922 61,673	4.2 4.2	52 53	B/M/P B/M/P	PROD PROD	NO EB NO EB, E/HP	177,240 26,667	48,373 7,555	32,695 5,150	-	39,886	7,874 1,215	85,688 13,210	19,085 3,188	27,081 4,687
340.000	Land - Storage	64,547	5.1	54	PK	USE	FRANCHISE	38,444	2,433	478	-	-	-	·-	8,475	14,717
342.000 342.000	Reservoirs and Standpipes - Other Reservoirs and Standpipes - CJO	1,481,241 2,568,671	5.1 5.2	54 45	PK PK	USE PROD	FRANCHISE ALL	882,227 1,108,895	55,843 70,125	10,961 13,614	338,037	127,406	25,173	273,820	194,487 257,895	337,723 353,706
	SUBTOTAL	466,324,790	42.0					206,824,496	60,682,351	41,646,755	28,890,944	10,925,697	5,157,644	56,981,476	21,972,179	33,243,248
	BASE, EXTRA CAPACITY							44.35%	13.01%	8.93%	6.20%	2.34%	1.11%	12.22%	4.71%	7.13%
	General Land	836,239	42.0	57		l		401,468	117,791	80,841	38,857	14,694	6,937	76,637	39,402	59,614
	Office and Warehouse Building Office Furniture	13,205,286 24,600,057	42.0 42.0	57 57		l		6,339,691 11,810,177	1,860,066 3,465,107	1,276,578 2,378,130	613,596 1,143,065	232,044 432,273	109,540 204,061	1,210,192 2,254,460	622,204 1,159,100	941,376 1,753,684
	Transportation Equipment	6,071,880	42.0	57		l		2,915,033	855,271	586,979	282,136	106,695	50,367	556,454	286,094	432,851
	Stores Tools, Shop and Garage Equipment	47,629 1,935,475	42.0 42.0	57 57		l		22,866 929,197	6,709 272,627	4,604 187,106	2,213 89,934	837 34,010	395 16,055	4,365 177,376	2,244 91,195	3,395 137,976
	Power Operated Equipment	316,562	42.0	57		l		151,977	44,590	30,603	14,709	5,563	2,626	29,011	14,916	22,567
	Communication Equipment Miscellaneous Equipment	6,722,943 228,684	42.0 42.0	57 57		l		3,227,600 109,788	946,978 32,212	649,919 22,107	312,388 10,626	118,136 4.018	55,768 1,897	616,121 20,958	316,770 10,775	479,264 16,302
	SUBTOTAL	53,964,755	42.0	57				25,907,797	7,601,350	5,216,867	2,507,523	948,271	447,646	4,945,573	2,542,700	3,847,028
								48.01%	14.09%	9.67%	4.65%	1.76%	0.83%	9.16%	4.71%	7.13%
	TOTAL BASE, EXTRA CAPACITY	520,289,545						232,732,293	68,283,701	46,863,622	31,398,467	11,873,968	5,605,290	61,927,050	24,514,879	37,090,276
				l		l		44.73%	13.12%	9.01%	6.04%	2.28%	1.08%	11.90%	4.71%	7.13%
	Small Mains Meters-Wholesale	1,952,004 11,803,638	6.0 7.0	48	l	l		1,337,346	614,658	=	1,436,503	1,936,977	-	- 8,430,158	-	
	Meters-ry noiesaie Meters-Retail	11,803,638 63,790,354	8.0	66 68		l		34,468,784	9,048,398	4,271,069	1,436,503	1,930,977	-	8,430,158	16,002,104	-
	Services-Retail	72,366,712	9.0	69		l		58,796,136	7,504,375	1,545,607	-	-	-	-	4,520,595	- 07 077 450
	Fire Hydrants SUBTOTAL	27,277,150 177,189,858	11.0	70		l		94,602,266	17,167,430	5,816,676	1,436,503	1,936,977	-	8,430,158	20,522,699	27,277,150 27,277,150
		,,						,,	,,.50	.,,	., .22,300	,,		,,,,,,,,,,	.,,	,, .50
	TOTALS	\$ 697,479,403	41.0					\$ 327,334,559	\$ 85,451,131	\$ 52,680,298	\$ 32,834,970	\$ 13,810,945	\$ 5,605,290	\$ 70.257.200	\$ 45,037,578	\$ 64,367,426
Ц	PERCENTS	100.00%	41.0	<u> </u>	<u> </u>	<u> </u>		46.93%	12.25%	7.55%	4.71%	1.98%	0.80%	10.09%	6.46%	9.23%

ALLOCATION OF ACCUMULATED DEPRECIATION TO CUSTOMER CLASSES

		I	1	I		I	Wholesale 1	Wholesale 2	Wholesale 3	Wholesale 4	Fire	Service
	Function	Total	Factor	Residential	Commercial	Industrial	(East Brunswick)	(Edison / Hld Pk)	(Rahway)	(So. River Basin)	Capacity	Hydrants
395.000	Lab Equipment	\$ 1,104,901	46	\$ 322,300	\$ 148,057	\$ 115,131	\$ 222,859	\$ 84,083	\$ 16,574	\$ 180,651	\$ 9,281	\$ 5,966
316.000	Supply Mains-Other	88,196	49	51,127	17,075	12,021	φ 222,039	-	-	-	3,237	4,736
314.000	Wells-CJO	17,408	42	6,558	2,152	1,509	-	1,666	329	3,579	649	966
321.000 325.000	Structures - CJO Thermal Electric Pumping Equipment - CJO Thermal	1,205 8,550	42 42	454 3,221	149 1,057	104 741		115 818	23 162	248 1,758	45 319	67 475
311.000	Supply Structures-D&R	111,768	43	32,980	10,760	7,502	22,102	8,339	1,649	17,910	4,224	6,303
313.000	Intakes	338,435	43	99,865	32,581	22,716	66,926	25,251	4,992	54,231	12,789	19,084
316.000 321.000	Supply Mains-D&R Structures - D&R	2,011,673 1,623,946	43 43	593,604 479,194	193,664 156,337	135,023 108,999	397,808 321,135	150,091 121,163	29,672 23,953	322,350 260,221	76,021 61,369	113,438 91,574
325.000	Electric Pumping Equipment - D&R	1,372,049	43	404,864	132,087	92,092	271,323	102,369	20,238	219,857	51,850	77,370
325.000	Electric Pumping Equipment - CJO Filter	2,140,509	43	631,621	206,067	143,671	423,286	159,703	31,573	342,995	80,890	120,703
331.000	Structures - CJO	6,044,479	43	1,783,605	581,902	405,705	1,195,296	450,979	89,156	968,567	228,421	340,848
332.000 346.200	Water Treatment Equipment - CJO Meters-Other	17,519,712 38,234	43 43	5,169,717 11,282	1,686,623 3,681	1,175,923 2,566	3,464,523 7,561	1,307,146 2,853	258,416 564	2,807,359 6,127	662,070 1,445	987,937 2,156
325.000	Electric Pumping Equipment - East Brunswick	3,592	37	11,202	0,001	2,000	3,592	2,000	001	0,127	1,110	2,100
343.000 321.000	T&D Mains - East Brunswick Structures - Oak St Booster	35,266 50,918	37 39				35,266			50.918		
321.000	Electric Pumping Equipment - Oak St	133,219	39							133,219		
325.000	Electric Pumping Equipment - North Meter Pit	240	39							240		
331.000 332.000	Structures - North Meter Pit Water Treatment Equipment - No. Meter Pit	9,181 3,093	39 39					ĺ	1	9,181 3,093		
332.000	Water Treatment Equipment - No. Weter Fit Water Treatment Equipment - Tices Lane	1,631	39							1,631		
343.000	T&D Mains - Oak St PS	29,703	39							29,703		
343.000 311.000	T&D Mains - North Meter Pit Supply Structures-Other	2,330 240,176	39 51	139,802	40,892	28,093				2,330	12,217	19,172
314.000	Wells-Other	494,162	51	287,642	84,136	57,802	_	-	-	-	25,136	39,446
321.000	Structures - Other Pumping	2,332,285	51	1,357,576	397,095	272,807	-	-	-	-	118,632	186,175
323.000	Power Production Equipment - Other	443,686	51	258,261	75,542	51,898	-			-	22,568	35,417
325.100 328.000	Electric Pumping Equipment - Other Other Pumping Equipment	3,660,606 148,293	51 51	2,130,766 86,319	623,255 25,248	428,181 17,346		-	-		186,197 7,543	292,208 11,838
331.000	Structures - Other	737,426	51	429,241	125,554	86,257	-	-	-	-	37,509	58,865
332.000	Water Treatment Equipment - Other	2,312,158	51	1,345,861	393,668	270,453	-	-	-	-	117,608	184,568
343.000 349.000	Distribution Mains Other T&D	18,664,975 115,532	51 51	10,864,509 67,249	3,177,899 19,670	2,183,242 13,514	-	-	-	-	949,394 5,877	1,489,932 9,222
343.000	Transmission Mains	18,108,467	71	8,328,808	2,365,328	1,612,921	-	-	297,341	3,233,991	912,667	1,357,411
321.000	Structures - CJO Booster	2,032,392	44	641,423	174,582	117,675	381,683	144,097	28,453	309,330	95,929	139,219
323.000 325.000	Power Production Equipment - CJO Electric Pumping Equipment - CJO Booster	2,238,329 1,016,640	44 44	706,417 320,852	192,272 87,329	129,599 58,863	420,358 190,925	158,698 72,080	31,337 14,233	340,674 154,733	105,649 47,985	153,326 69,640
343.000	T&D Mains - CJO PS	121,535	44	38,356	10,440	7,037	22,824	8,617	1,701	18,498	5,736	8,325
343.000 342.000	T&D Mains - Edison & HP Reservoirs and Standpipes - Other	218,961 667,322	52 54	88,620 397,457	24,186 25.158	16,348 4,938	-	19,943	3,937	42,844	9,542 87.619	13,541 152,149
342.000	Reservoirs and Standpipes - Other Reservoirs and Standpipes - CJO	1,570,289	45	677,894	25,158 42,869	4,938 8,323	206,650	77,886	15,389	167,393	157,657	216,229
	SUBTOTAL	87,813,473		37,757,443	11,057,315 12.59%	7,589,003	7,654,117	2,895,894	869,690 0.99%	9,683,630 11.03%	4,098,074	6,208,305
	BASE, EXTRA CAPACITY	,		43.00%		8.64%	8.72%	3.30%			4.67%	7.07%
	Office and Warehouse Building Office Furniture	4,614,616 11,173,283	57 57	2,215,431 5,364,182	650,015 1,573,869	446,095 1,080,121	214,441 519,222	81,079 196,315	38,301 92,738	422,883 1,023,920	217,441 526,485	328,930 796,432
	Transportation Equipment	4,365,131	57	2,095,656	614,872	421,977	202,848	76,695	36,231	400,021	205,685	311,147
	Stores	47,629	57	22,866	6,709	4,604	2,213	837	395	4,365	2,244	3,395
	Tools, Shop and Garage Equipment Power Operated Equipment	804,754 310,943	57 57	386,354 149,281	113,358 43,799	77,796 30,059	37,397 14,450	14,140 5,463	6,679 2,581	73,748 28,495	37,920 14,652	57,363 22,164
	Communication Equipment	936,295	57	449,506	131,887	90,512	43,510	16,451	7,771	85,802	44,118	66,739
	Miscellaneous Equipment	220,381	57	105,803	31,043	21,304	10,241	3,872	1,829	20,196	10,384	15,709
	SUBTOTAL	22,473,033		10,789,078 48.01%	3,165,551 14.09%	2,172,468 9.67%	1,044,322 4.65%	394,851 1.76%	186,526 0.83%	2,059,429 9.16%	1,058,929 4.71%	1,601,878 7.13%
	TOTAL BASE, EXTRA CAPACITY	110,286,506		48,546,522	14,222,867	9,761,471	8,698,439	3,290,746	1,056,216	11,743,059	5,157,003	7,810,183
				44.02%	12.90%	8.85%	7.89%	2.98%	0.96%	10.65%	4.68%	7.08%
	Small Mains Meters-Wholesale	861,214 1,506,962	48 66	590,030	271,184		183,397	247,293	I -	1,076,272	-	
	Meters-Retail	7,150,655	68	3,863,819	1,014,291	478,771	-]	1,070,272	1,793,775	-
	Services-Retail	24,017,712	69	19,513,788	2,490,619	512,970	-	-	-	-	1,500,336	
	Fire Hydrants SUBTOTAL	5,745,014 39,281,557	70	23,967,637	3,776,094	991,740	183,397	247,293	-	1,076,272	3,294,110	5,745,014 5,745,014
	-	25,201,007			2,770,004	301,740	100,007	2,250]	.,0.0,272	5,20 1,110	2,7 10,014
	TOTAL	\$ 149,568,063		\$ 72,514,159	\$ 17,998,960	\$ 10,753,211	\$ 8,881,836	\$ 3,538,038	\$ 1,056,216	\$ 12,819,332	\$ 8,451,114	\$ 13,555,197
	PERCENTS	100.00%	<u> </u>	48.48%	12.03%	7.19%	5.94%	2.37%	0.71%	8.57%	5.65%	9.06%

ALLOCATION OF MATERIALS AND SUPPLIES TO CUSTOMER CLASSES

							Wholesale 1	Wholesale 2	Wholesale 3	Wholesale 4	Fire S	ervice
	Function	Total	Factor	Residential	Commercial	Industrial	(East Brunswick)	(Edison / Hld Pk)	(Rahway)	(So. River Basin)	Capacity	Hydrants
154 001	T & D Materials	\$ 4,406,788	56	\$ 2,226,750	\$ 640,747	\$ 438,035	\$ 2,203	\$ 881	\$ 44,949	\$ 492,238	\$ 222,543	\$ 338.441
163.001		83,554	41	21.624	9.943	7.720	19.117		1.429	15.491	618	401
		\$ 4,490,342	1	\$ 2,248,374	-,	, -	- /			-, -		
						·						
	13-Month Average Balance	\$ 4,490,342		\$ 2,248,374	\$ 650,690	\$ 445,755	\$ 21,320	\$ 8,092	\$ 46,378	\$ 507,729	\$ 223,161	\$ 338,842
	PERCENTS	100.00%		50.07%	14.49%	9.93%	0.47%	0.18%	1.03%	11.31%	4.97%	7.55%
	PERCENTS	100.00%		50.07 %	14.49%	9.93%	0.47%	0.10%	1.03%	11.31%	4.97%	7.55%

ALLOCATION OF PRO FORMA OPERATION AND MAINTENANCE EXPENSES TO CUSTOMER CLASSES

							Wholesale 1	Wholesale 2	Wholesale 3	Wholesale 4		ervice
	Function	Total	Factor	Residential	Commercial	Industrial	(East Brunswick)	(Edison / Hld Pk)	(Rahway)	(So. River Basin)	Capacity	Hydrants
603	Miscellaneous Expense & Labor	69,041	46	\$ 20,139	\$ 9,252	\$ 7,194	\$ 13,926	\$ 5,254	\$ 1,036	\$ 11,288	\$ 580	\$ 373
620	Supervision Labor - Oper	127,573	46	37,213	17,095	13,293	25,731	9,708	1,914	20,858	1,072	689
624 624	Operation Labor Operation Expense	1,726,828 23,639	46 46	503,716 6,895	231,395 3,168	179,935 2,463	348,301 4,768	131,412 1,799	25,902 355	282,336 3,865	14,505 199	9,325 128
626	Miscellaneous Labor	344.894	46	100.606	46,216	35,938	69,565	26,246	5,173	56,390	2,897	1,862
626	Miscellaneous Expense	-	46	-	-	-	-	-	-	-	-	-
640	Supervision Labor - Oper	582,335	46	169,867	78,033	60,679	117,457	44,316	8,735	95,212	4,892	3,145
642 642	Operation Labor Operation Expense	542,813 2,429,774	46 46	158,339 708,765	72,737 325,590	56,561 253,182	109,485 490,085	41,308 184,906	8,142 36,447	88,750 397,268	4,560 20,410	2,931 13,121
643	Miscellaneous Expense	11,141	46	3,250	1,493	1,161	2,247	848	167	1,822	20,410	13,121
641	Chemicals - Wells	1,353,070	47	725,922	333,667	259,248	-	-	-	-	20,702	13,531
602	Purchased Water - NJWSA	3,389,671	40	1,137,573	522,687	406,760	-	379,304	74,912	814,877	32,202	21,355
641 623	Chemicals - CJO Power - CJO Plant	1,219,482	41 43	359.845	117,400	81.852	241.153	90.986	17.987	195,410	46.084	68,767
623	Power - CJO D&R Intake	351,054	43	103,589	33,796	23,563	69,421	26,192	5,178	56,253	13,266	19,796
666	Rents	219,210	39							219,210		
602 623	Purchased Water - E'town Power - Other	3,282,392 761,180	51 51	1,910,615 443,068	558,860 129,598	383,941 89,035	-	-	-	-	166,959 38,717	262,017 60,761
662	Operation Labor T & D - Distribution	1.734.857	51	1,009,826	295,377	202,926	-	-	_	_	88,244	138,485
662	Operation Expense - T & D - Distribution	232,055	51	135,074	39,510	27,143	-	-	-	-	11,803	18,524
673	Maint. Labor T & D - Distribution	139,522	51	81,213	23,755	16,320	-	-	-	-	7,097	11,137
673 662	Maint. Expense - T & D - Distribution Operation Labor T & D - Transmission	1,088,454 810,607	51 71	633,567 372,831	185,320 105.882	127,316 72,201	-	-	13.310	144.766	55,364 40.855	86,886 60,763
662	Operation Expense - T & D - Transmission	108,428	71	49,870	14,163	9,658	-	-	1,780	19,364	5,465	8,128
673	Maint. Labor T & D - Transmission	65,191	71	29,984	8,515	5,807	-	-	1,070	11,642	3,286	4,887
673	Maint. Expense - T & D - Transmission	508,578	71	233,916	66,430	45,299	-	-	8,351	90,827	25,632	38,123
623 662	Power - CJO Booster Operation Labor T & D - Edison & HP	6,945 12,825	44 52	2,192 5.191	597 1,417	402 958	1,304	492 1,168	97 231	1,057 2,510	328 559	476 793
662	Operation Expense - T & D - Edison & HP	1,716	52	694	190	128	-	156	31	336	75	106
673	Maint.Labor T & D - Edison & HP	1,032	52	418	114	77	-	94	19	202	45	64
673 631	Maint. Expense - T & D - Edison & HP Maint Expense - Structures-Labor	8,047	52 59	3,257	889	601	-	733	145	1,574	351	498
631	Maint Expense - Structures-Labor Maint Expense - Structures-Expense	165,424	59 59	67,807	19,818	13,581	19,570	7,378	1,456	16,658	7,626	11,530
633	Maint Expense - Equipment-Labor	- 100,121	60	-	-	-	-	-		-		-
633	Maint Expense - Equipment-Expense	149,859	60	66,815	19,921	13,714	13,630	5,131	1,014	12,360	6,822	10,452
651 651	Maint Expense - Structures-Labor	14.945	61 61	4 400	1 450	1.016	2 004	4.004	- 217	- 254	568	- 940
652	Maint Expense - Structures-Expense Maint Expense - Equipment-Labor	14,945	62	4,488 48	1,459 15	1,016 11	2,901 29	1,094 11	217	2,354 24	6	849 9
652	Maint Expense - Equipment-Expense	46,135	62	14,145	4,577	3,188	8,752	3,303	655	7,100	1,767	2,648
660	Supervision Labor - Oper	302,987	87	164,371	47,690	32,692	-	151	1,606	17,452	15,361	23,663
660 665	Supervision Labor - Oper Miscellaneous Labor - Oper	47,341	87 87	25,682	7,451	5,108	-	24	251	2,727	2,400	3,697
665	Miscellaneous Expense - Oper	200,413	87	108,724	31,545	21,625	-	100	1,062	11,544	10,161	15,652
670	Supervision Labor - Maint	29,024	88	15,746	4,568	3,132	-	15	154	1,672	1,472	2,267
670	Supervision Expense - Maint SUBTOTAL	135,560 22,244,197	88	73,542 9.488.801	21,337 3,381,524	14,627 2,472,336	1.538.326	962,197	718 218.117	7,808 2,595,516	6,873 659,297	10,587 928.083
	SUBTUTAL	22,244,197		42.66%	15.20%	11.12%	6.92%	4.33%	0.98%	2,393,516	2.96%	4.17%
	BASE, EXTRA CAPACITY											
930 920	Miscellaneous Gen Expense Admin and Gen Salaries	869,725 3.962,695	84 84	389,888 1.776.433	136,689 622,793	99,584 453,733	67,338 306.812	25,543 116,380	6,586 30,006	83,890 382,226	24,966 113,753	35,241 160,559
920	Admin and Gen Expenses	333,685	84	1,776,433	52,443	38,207	25,836	9,800	2,527	32,186	9,579	13,520
921	Office Supplies and Exp	948,398	84	425,156	149,054	108,593	73,430	27,854	7,181	91,479	27,225	38,426
923	Outside Services	(1,086,642)	84	(487,130)	(170,781)	(124,422)	(84,133)	(31,914)	(8,228)	(104,813)	(31,193)	(44,028)
928 932	Regulatory Comm Expense General Maint Labor	176,716 359,953	84 84	79,220	27,773	20,234 41,215	13,682 27,869	5,190	1,338	17,045	5,073 10.333	7,161
932	General Maint Labor General Maint Expense	1,602,632	84	161,363 718,442	56,572 251,876	183,503	124,084	10,571 47,068	2,726 12,135	34,720 154,583	46,005	14,584 64,936
931	Office Rentals	600,639	84	269,260	94,399	68,774	46,504	17,640	4,548	57,935	17,242	24,337
	Variance (Antenna Revenue)	(60,923)	84	(27,311)	(9,575)	(6,976)	(4,717)	(1,789)	(461)	(5,876)	(1,749)	(2,469)
925 926	Worker's Compensation	352,280	85 85	165,994	52,032	35,334	28,323	10,745	2,783	32,163	9,793	15,113
926	Pensions and Benefits Property Insurance	3,640,865 266,362	57	1,715,576 127,877	537,756 37,519	365,179 25,750	292,726 12,377	111,046 4,681	28,763 2,210	332,411 24,411	101,216 12,550	156,193 18,988
925	Injuries and Damages	979,009	57	470,010	137,901	94,643	45,491	17,203	8,121	89,721	46,129	69,790
	SUBTOTAL	12,945,394		5,934,365	1,976,451	1,403,350	975,622 7.54%	370,017 2.86%	100,234	1,222,081 9,44%	390,923	572,351
				45.84%	15.27%	10.84%	7.54%	2.86%	0.77%	9.44%	3.02%	4.42%
	TOTAL BASE, EXTRA CAPACITY	35,189,591	55	15,423,166	5,357,975	3,875,687	2,513,948	1,332,214	318,351	3,817,597	1,050,220	1,500,435
			55	43.83%	15.23%	11.01%	7.14%	3.79%	0.91%	10.85%	2.98%	4.27%
	Small Mains	34,020	48	23,308	10,713	l -	_	_	_	-	-	
	Meters-Wholesale	28,253	66	-	-	-	3,438	4,636	-	20,179	-	
	Meters-Retail	2,516,458	68	1,359,755	356,949	168,489	-	-	-	-	631,265	-
	Services-Retail Billing & Accounting	556,467 4.582,285	69 67	452,115 3,863,324	57,705 468,768	11,885 54,987	-	- 458	-	- 458	34,761 191,540	2.749
	Fire Hydrants	4,562,265	70			34,307	_	-	_	- 430	151,540	406,398
	•	8,123,881		5,698,502	894,135	235,361	3,438	5,095	-	20,637	857,566	409,148
	TOTAL	£ 40.040.470		® 04 404 CCC	\$ 6.252.109	C 4444.C10	£ 0.547.000	£ 4.007.000	£ 040.051	\$ 3,838,233	£ 4.007.700	£ 4.000 F22
	TOTAL	\$ 43,313,473		\$ 21,121,668	4 4,===,		\$ 2,517,386	\$ 1,337,309		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$ 1,907,786	\$ 1,909,582
	PERCENTS	100.00%		48.76%	14.43%	9.49%	5.81%	3.09%	0.73%	8.86%	4.40%	4.41%

ALLOCATION OF DEPRECIATION EXPENSE TO CUSTOMER CLASSES

							Wholesale 1	Wholesale 2	Wholesale 3	Wholesale 4		Service
	Function	Total	Factor	Residential	Commercial	Industrial	(East Brunswick)	(Edison / Hld Pk)	(Rahway)	(So. River Basin)	Capacity	Hydrants
395,000	Lab Equipment	\$ 30,426	46	\$ 8,875	\$ 4,077	\$ 3,170	\$ 6,137	\$ 2,315	\$ 456	\$ 4,975	\$ 256	\$ 164
316.000	Supply Mains-Other	18,916	49	10,966	3,662	2,578	-		-	,	694	1,016
314.000	Wells-CJO	1,337	42	504	165	116	-	128	25	275	50	74
321.000	Structures - CJO Thermal	34	42	13	4	3	-	3	1	7	1	2
325.000	Electric Pumping Equipment - CJO Thermal	272	42	103	34	24	-	26	5	56	10	15
311.000	Supply Structures-D&R	8,354	43	2,465	804	561	1,652	623	123	1,339	316	471
313.000	Intakes	9,383	43	2,769	903	630	1,856	700	138	1,504	355	529
316.000 321.000	Supply Mains-D&R Structures - D&R	103,000 85,917	43 43	30,393 25,352	9,916 8,271	6,913 5,767	20,368 16,990	7,685 6,410	1,519 1,267	16,505 13,767	3,892 3,247	5,808 4,845
325.000	Electric Pumping Equipment - D&R	57,840	43	17,067	5,568	3,882	11,438	4,315	853	9,268	2,186	3,262
325.000	Electric Pumping Equipment - CJO Filter	107,781	43	31,804	10,376	7,234	21,314	8,042	1,590	17,271	4,073	6,078
331.000	Structures - CJO	1,645,629	43	485,592	158,425	110,455	325,423	122,780	24,273	263,696	62,188	92,797
332.000	Water Treatment Equipment - CJO	1,461,553	43	431,275	140,704	98,099	289,022	109,046	21,558	234,199	55,232	82,417
346.200	Meters-Other	1,530	43	451	147	103	302	114	23	245	58	86
325.000	Electric Pumping Equipment - East Brunswick	180	37	-	-	-	180	-	-	-	-	
343.000	T&D Mains - East Brunswick	978	37	-	-	-	978	-	-	-	-	
321.000	Structures - Oak St Booster	1,751	39	-	-	-	-	-	-	1,751	-	
325.000	Electric Pumping Equipment - Oak St	4,409	39	-	-	-	-	-	-	4,409	-	1
325.000 328.000	Electric Pumping Equipment - North Meter Pit Other Pumping Equipment - CJO Booster	12 13,176	39 43	3,888	1,268	884	2,606	983	194	12 2,111	498	743
328.000	Other Pumping Equipment - Other	25,158	43	7,424	2,422	1,689	4,975	1,877	371	4,031	951	1,419
328.000	Structures - North Meter Pit	25,158	39	7,424	2,422	1,089	4,9/5	1,0//	3/1	4,031	951	1,419
332.000	Water Treatment Equipment - No. Meter Pit	125	39	_	-	_	_	_	-	125	-	
332.000	Water Treatment Equipment - Tices Lane	75	39	-	-	-	-	_	-	75	-	
343.000	T&D Mains - Oak St PS	1,022	39	-	-	-	-	- 1	-	1,022	-	1
343.000	T&D Mains - North Meter Pit	104	39	-	-	-	-	-	-	104	-	
311.000	Supply Structures-Other	30,473	51	17,738	5,188	3,564	-	-	-	-	1,550	2,433
314.000	Wells-Other	20,937	51	12,187	3,565	2,449	-	-	-	-	1,065	1,671
321.000	Structures - Other Pumping	126,750	51	73,778	21,580	14,826	-	-	-	-	6,447	10,118
323.000	Power Production Equipment - Other	19,272	51	11,218	3,281	2,254	-	-	-	-	980	1,538
325.100 331.000	Electric Pumping Equipment - Other	259,498 30,598	51 51	151,049	44,182	30,354	-	-	-	-	13,199	20,714
331.000	Structures - Other Water Treatment Equipment - Other	72.937	51	17,811 42,455	5,210 12,418	3,579 8,531	-	-	-	-	1,556 3,710	2,442 5.822
343.000	Distribution Mains	1,211,065	51	704,937	206,196	141,658	-	-	-		61,601	96,673
349.000	Other T&D	51,093	51	29,740	8,699	5,976	_	-	_	_	2,599	4,079
343.000	Transmission Mains	2,160,112	71	993,522	282,154	192,401	_	_	35,469	385,774	108,870	161,922
321.000	Structures - CJO Booster	138,592	44	43,740	11,905	8,025	26,028	9,826	1,940	21,094	6,542	9,494
323.000	Power Production Equipment - CJO	103,800	44	32,759	8,916	6,010	19,494	7,359	1,453	15,798	4,899	7,110
325.000	Electric Pumping Equipment - CJO Booster	63,861	44	20,154	5,486	3,698	11,993	4,528	894	9,720	3,014	4,374
343.000	T&D Mains - CJO PS	4,145	44	1,308	356	240	778	294	58	631	196	284
343.000	T&D Mains - Edison & HP	5,562	52	2,251	614	415	-	507	100	1,088	242	344
342.000	Reservoirs and Standpipes - Other	28,588	54	17,027	1,078	212		-	-	-	3,754	6,518
342.000	Reservoirs and Standpipes - CJO	49,575	45	21,402	1,353	263	6,524	2,459	486	5,285	4,977	6,827
	SUBTOTAL	7,956,190		3,252,018	968,930	666,563		290,022	92,798	1,016,504	359,208	542,090
	BASE, EXTRA CAPACITY			40.87%	12.18%	8.38%	9.65%	3.65%	1.17%	12.78%	4.51%	6.81%
390.000	Office and Warehouse Building	299,760	57	143,912	42,224	28,978	13,930	5,267	2,488	27,470	14,125	21,367
391.000	Office Furniture	1,725,694	57	828,488	243,081	166,823	80,193	30,320	14,323	158,143	81,315	123,007
392.000	Transportation Equipment	841,018	57	403,764	118,466	81,301	39,082	14,777	6,980	77,071	39,629	59,948
393.000	Stores	-	57	-			-		-	-	-	-
394.000	Tools, Shop and Garage Equipment	80,316	57	38,559	11,313	7,764	3,732	1,411	667	7,360	3,784	5,725
396.000	Power Operated Equipment	19,279	57	9,255	2,716	1,864	896	339	160	1,767	908	1,374
397.000	Communication Equipment	459,850	57	220,769	64,774	44,454	21,369	8,080	3,817	42,141	21,668	32,778
398.000	Miscellaneous Equipment	377	57	181	53	36	18	7	3	35	18	27
	SUBTOTAL	3,426,292		1,644,928	482,627	331,220	159,220	60,200	28,438	313,985	161,447	244,226
				48.01%	14.09%	9.67%	4.65%	1.76%	0.83%	9.16%	4.71%	7.13%
	TOTAL BASE EYTBA CABACITY	11 202 402		4,896,947	1 454 550	997,783	927,277	250 200	104 000	1,330,490	520,655	786,316
	TOTAL BASE, EXTRA CAPACITY	11,382,482		4,896,947	1,451,558 12.75%	997,783	927,277	350,222 3.08%	121,236 1.07%	1,330,490	520,655 4.57%	786,316 6.91%
				43.02%	12.73%	0.11%	0.15%	3.06%	1.07%	11.09%	4.57%	0.91%
343.000	Small Mains	67.615	48	46,324	21,291	-	_		_	-		
346.100	Meters-Wholesale	369,372	66			_	44,953	60,614	_	263,805		_
346.000	Meters-Retail	1,916,978	68	1,035,829	271,915	128,351	,,500		-	-	480,883	-
345.000	Services-Retail	2,281,975	69	1,854,048	236,639	48,738	-	-	-	-	142,550	-
348.000	Fire Hydrants	710,752	70	-	-	-	<u> </u>	-			-	710,752
	SUBTOTAL	5,346,692		2,936,201	529,846	177,089	44,953	60,614	-	263,805	623,433	710,752
					I	I					İ	Ì
						ļ						
	TOTAL	\$ 16,729,174		\$ 7,833,147	\$ 1,981,403	\$ 1,174,872	\$ 972,229	\$ 410,836	\$ 121,236	\$ 1,594,295	\$ 1,144,088	\$ 1,497,067
	IOIAL	ψ 10,723,174		Ψ 1,000,141	ψ 1,301,403	ψ 1,174,072	y 512,229	Ψ 410,030	Ψ 1∠1,∠30	ψ 1,554,295	Ψ 1,144,000	ψ 1,437,007
1	PERCENTS	100.00%		46.82%	11.84%	7.02%	5.81%	2.46%	0.72%	9.53%	6.84%	8.95%

ALLOCATION OF PRO FORMA REVENUE REQUIREMENT TO FUNCTIONAL CLASSIFICATIONS

			Ba	ase		Extra - 0	Capacity					Customer		
					Maxim	um Day	Peak	Hour					Billing	
	Total		1	2	1	2	1	2	Small	Contract			and	
Description	Amount	Code	Usage	Production	Usage	Production	Usage	Production	Mains	Meters	Meters	Services	Accounting	Hydrants
UTILITY OPERATING INCOME	\$ 35,639,436	31.0	\$ 9,298,964	\$ 4,605,424	\$ 6,956,830	\$ 3,192,074	\$ 2,330,864	\$ 136,085	\$ 71,940	\$ 658,237	\$ 3,810,877	\$ 3,171,592	\$ 5,747	\$ 1,400,802
OPERATION & MAINTENANCE	43,313,474	74.0	21,197,894	4,797,096	5,714,685	985,133	2,452,268	42,517	34,020	28,253	2,516,458	556,467	4,582,285	406,398
DEPRECIATION	16,729,174	83.0	3,246,689	2,821,829	2,244,008	1,975,007	966,956	127,992	67,615	369,372	1,916,978	2,281,975	-	710,752
AMORTIZATION EXPENSE	3,440	31.0	898	445	671	308	225	13	7	64	368	306	1	135
PROPERTY TAXES-SOURCE	456,560	2.1	268,549	-	188,011	-	-	-	-	-	-	-	-	-
PROPERTY TAXES-PUMPING D&R RWPS	24,407	4.1	12,203	-	8,542	-	3,661	-	-	-	-	-	-	-
PROPERTY TAXES-PUMPING OTHER	36,691	4.1	18,346	-	12,842	-	5,504	-	-	-	-	-	-	-
PROPERTY TAXES-TREATMENT	687,712	2.1	404,512	-	283,200	-	-	-	-	-	-	-	-	-
PROPERTY TAXES-STORAGE	93,323	5.1	-	-	-	-	93,323	-	-	-	-	-	-	-
PROPERTY TAXES-TRANSMISSION MAIN	11,805	4.1	5,902	-	4,132	-	1,771	-	-	-	-	-	-	-
PROPERTY TAXES-GENERAL PLANT	284,753	41.0	72,894	38,150	50,568	26,675	22,204	1,923	797	4,819	26,043	29,544	400.000	11,136
PAYROLL TAXES FRANCHISE & OTHER	1,280,465 14.548.538	75.0 21.0	715,469 5,187,734	5,294 1.811.609	162,164 2.311.934	3,706 916.638	69,499 878,477	740 45.752	1,229 25.957	- 157.720	118,744 1,241,601	9,880 897.101	182,339 696,986	11,402 377.028
INCOME TAX	1.016.495	31.0	265.222	131.354	198.420	91.043	66.480	3.881	25,957	18,774	1,241,601	90.459	164	39.953
INCOIVE TAX	1,010,495	31.0	265,222	131,354	190,420	91,043	00,400	3,001	2,052	10,774	100,092	90,459	104	39,933
TOTAL OPERATING REVENUE	114,126,271	21.0	40,695,275	14,211,200	18,136,007	7,190,584	6,891,232	358,904	203,617	1,237,239	9,739,762	7,037,325	5,467,522	2,957,606
LESS MISC. REVENUES	(227,236)	21.0	(81,028)	(28,296)	(36,110)	(14,317)	(13,721)	(715)	(405)	(2,463)	(19,393)	(14,012)	(10,886)	(5,889)
REVENUE FROM SALES	\$ 113,899,035	21.0	\$ 40,614,247	\$ 14,182,904	\$ 18,099,896	\$ 7,176,267	\$ 6,877,511	\$ 358,190	\$ 203,211	\$ 1,234,775	\$ 9,720,369	\$ 7,023,313	\$ 5,456,635	\$ 2,951,717
PERCENTS	100.00%	21.0	35.66%	12.45%	15.89%	6.30%	6.04%	0.31%	0.18%	1.08%	8.53%	6.17%	4.79%	2.59%

ALLOCATION OF RATE BASE ELEMENTS TO FUNCTIONAL CLASSIFICATIONS

			Ва	se		Extra - 0	Capacity				1	Customer		
					Maximu		Peak						Billing	
Description	Total Amount	Code	1 Usage	2 Production	1 Usage	2 Production	1 Usage	2 Production	Small Mains	Contract Meters	Meters	Services	and Accounting	Hydrants
Description	Amount	Code	Usage	Production	Usaye	FIOduction	Usage	Floudction	ivialits	IVIELEIS	IVIELEIS	Services	Accounting	riyurants
UTILITY PLANT	\$ 697,479,403	41.0	\$ 178,547,010	\$ 93,444,570	\$ 123,862,629	\$ 65,338,017	\$ 54,386,468	\$ 4,710,851	\$ 1,952,004	\$ 11,803,638	\$ 63,790,354	\$ 72,366,712	\$ -	\$ 27,277,150
UPIS ALLOCATED TO SUBSIDIARIES	-	41.0	-	-	-	-	-	-	-	-	-	-	-	-
INTANGIBLE ASSETS (prepaids/deposits)	-	41.0	-	-	-	-	-	-	-	-	-	-	-	-
ACCUMULATED DEPRECIATION, NET	(149,568,063)	51.0	(32,606,776)	(25,248,411)	(22,002,929)	(17,672,603)	(10,137,842)	(2,617,945)	(861,214)	(1,506,962)	(7,150,655)	(24,017,712)	-	(5,745,014)
ADVANCES FOR CONSTRUCTION	(2,767,551)	32.0	(1,213,825)	-	-	-	(1,213,825)	-	-	-	-	(382,588)	-	42,687
CIAC - TRANSMISSION MAINS CIAC - OTHER	(8,640,577) (10,849,637)	33.0 33.0	(4,320,288) (4,710,016)	-	- (119,330)	-	(4,320,288) (4,590,685)	-	-	- (507,816)	- (11,504)	- (228,562)	-	- (681,724)
DEFERRED INCOME TAXES	(21,393,981)	41.0	(5,476,622)	(2,866,251)	(3,799,273)	(2,004,131)	(1,668,211)	(144,497)	(59,874)	(362,056)	(1,956,659)	(2,219,724)	-	(836,680)
DEFERRED ITC (pre-1971)	-	41.0	-	-	-	-	-	-	-	-	-	-	-	-
MATERIAL & SUPPLIES	4,490,342	61.0	2,203,394	83,554	1,542,376	-	661,018	-	-	-	-	-	-	-
CASH WORKING CAPITAL	5,966,180	74.0	2,919,887	660,772	787,165	135,696	337,786	5,856	4,686	3,892	346,627	76,650	631,183	55,979
ROAD OPENING PERMIT DEPOSIT	411,232	33.0	190,534.08	-	2,517.80	-	188,016.28	-	-	10,714.62	242.73	4,822.53	-	14,383.97
CUSTOMER DEPOSITS	(77,482)	6.0	-	-	-	-	-	-	-	-	-	(77,482)	-	-
INJURIES & DAMAGES RESERVE	(31,857)	41.0	(8,155)	(4,268)	(5,657)	(2,984)	(2,484)	(215)	(89)	(539)	(2,914)	(3,305)	-	(1,246)
PENSION / RETIREMENT PLAN RESERVE	(3,853,624)	75.0	(2,153,240)	(15,932)	(488,042)	(11,153)	(209,161)	(2,228)	(3,698)	-	(357,367)	(29,733)	(548,759)	(34,314)
UNAMORTIZED ACQUISITION ADJUSTMENT	161,848	31.0	42,229	20,914	31,593	14,496	10,585	618	327	2,989	17,306	14,403	26	6,361
TOTALS	\$ 511,326,233	31.0	\$ 133,414,132	\$66,074,949	\$ 99,811,048	\$ 45,797,338	\$ 33,441,377	\$1,952,441	\$ 1,032,142	\$ 9,443,860	\$ 54,675,431	\$ 45,503,481	\$ 82,450	\$ 20,097,585
PERCENTS	100.00%	31.0	26.09%	12.92%	19.52%	8.96%	6.54%	0.38%	0.20%	1.85%	10.69%	8.90%	0.02%	3.93%

ALLOCATION OF UTILITY PLANT TO FUNCTIONAL CLASSIFICATIONS

				Bas	e			- Capacity		1			Customer		1
Account		Total		1	2	Maxin 1	num Day	Peak Ho	our 2	Small	Contract			Billing	
No.	Description	Amount	Code	Usage	Production	Usage	Production	Usage	Production	Mains	Meters	Meters	Services	Accounting	Hydrants
	SOURCE OF SUPPLY														
310.000	Water Rights - CJO ROW - Supply Main	\$ 105,088 11,152	1.2	\$ -	\$ 105,088 6,560	\$ -	\$ - 4,592	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Water Rights - Other Well Field Land	16,968 166,511	1.1 4.1	16,968 83,256	-	58,279	-	24,977	-	-	-	-	-	-	-
311.000	Supply Structures-D&R Supply Structures-Other	281,282 1,026,026	2.2	513,013	165,450	359,109	115,832	153,904	-	-	-	-	-	-	-
313.000	Intakes	381,429	2.2	-	224,357	-	157,072	133,904	-	-	-	-	-	-	-
314.000	Wells-CJO Wells-Other	38,859 608,635	2.2 4.1	304,318	22,857	213,022	16,002	91,295	-	-	-	-	-	-	-
316.000	Supply Mains-D&R Supply Mains-Other	8,956,480 1,644,909	2.2	967,535	5,268,202	677,374	3,688,278	-	-	-	-	-	-	-	-
	PUMPING PLANT	1,044,303	2.1	307,333		011,514									
320.000	Land - D&R	2,947	2.2	-	1,733	-	1,214	-	-	-	-	-	-	-	-
	Land - Oak St Land - Other	6,272 82,970	4.1 4.1	3,136 41,485	-	2,195 29,040	-	941 12,446	-	-	-	-	-	-	-
321.000	Structures - D&R Structures - CJO Thermal	2,753,758 1.094	2.2	-	1,619,760 643	-	1,133,998 451	-	-	-	-	-	-	-	-
	Structures - CJO Booster	4,442,067	4.2	-	2,221,034	-	1,554,723	-	666,310	-	-	-	-	-	-
	Structures - Oak St Booster Structures - Other Pumping	56,127 4,404,589	4.1 4.1	28,064 2,202,295	-	19,644 1,541,606	-	8,419 660,688	-	-	-	-	-		-
323.000	Power Production Equipment - CJO Power Production Equipment - Other	3,530,607 655,520	4.2 4.1	327,760	1,765,304	229,432	1,235,712	98,328	529,591	-	-	-	-	-	-
325.000	Electric Pumping Equipment - D&R Electric Pumping Equipment - CJO Thermal	2,015,322 9,486	2.2	-	1,185,412 5,580	,	829,910 3,906	-	-	-	-	-	-	-	-
	Electric Pumping Equipment - CJO Filter	3,755,451	2.2	-	2,208,956	-	1,546,495	-	-	-	-	-	-	-	-
	Electric Pumping Equipment - CJO Booster Electric Pumping Equipment - Oak St	2,225,118 153,628	4.2 4.1	- 76,814	1,112,559	53,770	778,791	23,044	333,768	-	-	-	-	-	-
	Electric Pumping Equipment - North Meter Pit Electric Pumping Equipment - East Brunswick	419 6.258	4.1 4.1	210 3.129	-	147 2.190	-	63 939	-	-	-	-	-	-	-
325.100	Electric Pumping Equipment - Other	9,044,023	4.1	4,522,012	-	3,165,408	-	1,356,603	-	-	-	-	-	-	-
328.000	Other Pumping Equipment - CJO Booster Other Pumping Equipment - Other	261,430 499,164	2.2 2.1	293,608	153,773	205,556	107,657	-	-	-	-	-	-	-	-
	WATER TREATMENT														
330.000 331.000	Land - CJO Structures - CJO	143,861 60,433,666	2.2	-	84,619 35,547,082	-	59,242 24,886,584	-	-	-	-	-	-	-	-
	Structures - North Meter Pit Structures - Other	13,551	4.1	6,776	-	4,743	- 1,000,000	2,033 169,363	-	-	-	-	-	-	-
332.000	Water Treatment Equipment - CJO	1,129,085 53,733,573	2.2	564,543 -	31,606,088	395,180	22,127,485	-	-	-	-	-			-
	Water Treatment Equipment - No. Meter Pit Water Treatment Equipment - Tices Lane	4,582 2,766	4.1 4.1	2,291 1,383	-	1,604 968	-	687 415	-	-	-	-	-	-	-
	Water Treatment Equipment - Other	2,265,234	4.1	1,132,617	-	792,832	-	339,785	-	-	-	-	-	-	-
340.000	TRANSMISSION & DISTRIBUTION Land - ROW 48" Main	61,673	4.2	_	30,837	_	21,586	_	9,251	_	_	_	_		
0.0.000	Land - ROW SRB Land - ROW Other	583,859	4.1	291,930	-	204,351	-	87,579	-	-	-	-	-	-	-
	Land - Storage	155,805 64,547	4.1 5.1	77,903	-	54,532	-	23,371 64,547	-	-		-	-		
342.000	Reservoirs and Standpipes - CJO Reservoirs and Standpipes - Other	2,568,671 1,481,241	5.2 5.1	-	-	-	-	1,481,241	2,568,671	-	-	-	-	-	-
343.000	Small Mains T&D Mains - East Brunswick	1,749,541 76,982	6.0 4.1	- 38,491	-	26,944	_	11,547	_	1,749,541	-	-	-	-	-
	T&D Mains - Edison & HP	437,922	4.2	-	218,961	- 20,944	153,273	- 11,547	65,688	-	-	-	-	-	-
	T&D Mains - CJO PS T&D Mains - Oak St PS	326,397 80,494	4.2 4.1	40,247	163,199	28,173	114,239	12,074	48,960	-	-	-	-	-	-
	T&D Mains - North Meter Pit Transmission Mains	8,186 182,505,712	4.1 4.1	4,093 91,252,856	-	2,865 63,876,999	-	1,228 27,375,857	-	:	:	-		1 :	:
345.000	Distribution Mains	110,422,283	4.1	55,211,142	-	38,647,799	-	16,563,342	-	-	-	-	64,860,792	-	-
345.100	Services-Retail Services-Wholesale	64,860,792 7,198,615	9.0 7.0	-	-	-]		-	7,198,615	-	04,000,792	:	
346.000 346.100	Meters-Retail Meters-Wholesale	57,173,979 3,380,742	8.0 7.0	-	-	-		-			3,380,742	57,173,979 -	-		-
346.200 348.000	Meters-Other Fire Hydrants	58,464 24,447,947	2.2 11.0	-	34,389	-	24,075	-	-	-	-	-	-	1 :	24,447,947
349.000	Other T&D	1,205,028	4.1	602,514	-	421,760	-	180,754	-	-	-	-	-	-	
200 000	GENERAL	4 404 000	44.0	000 071	450.460	100.070	405.015	07.110	7,500	0.40=	10.0=:	100 50=	440.010		40.011
389.000 390.000	General Land Office and Warehouse Building	1,121,028 17,702,479	41.0 41.0	286,971 4,531,639	150,189 2,371,684	199,079 3,143,714	105,015 1,658,321	87,413 1,380,364	7,572 119,564	3,137 49,543	18,971 299,584	102,527 1,619,041	116,312 1,836,714	-	43,841 692,312
391.000 392.000	Office Furniture Transportation Equipment	32,977,855 8,139,720	41.0 41.0	8,441,966 2,083,678	4,418,197 1,090,516	5,856,408 1,445,501	3,089,278 762,507	2,571,472 634,701	222,736 54,977	92,294 22,780	558,093 137,751	3,016,102 744,446	3,421,605 844,534	-	1,289,704 318,330
393.000 394.000	Stores Tools, Shop and Garage Equipment	63,850 2,594,621	41.0 41.0	16,345 664,194	8,554 347,613	11,339 460,769	5,981 243,057	4,979 202,317	431 17,524	179 7,261	1,081 43,909	5,840 237,300	6,625 269,204	-	2,497 101,471
395.000	Lab Equipment	1,417,619	1.1	1,417,619	-	-		-		-	-	-	-		-
396.000 397.000	Power Operated Equipment Communication Equipment	424,370 9,012,509	41.0 41.0	108,634 2,307,103	56,855 1,207,448	75,362 1,600,496	39,754 844,268	33,091 702,757	2,866 60,871	1,188 25,223	7,182 152,521	38,812 824,270	44,030 935,089	-	16,596 352,463
398.000	Miscellaneous Equipment	306,565	41.0	78,477	41,072	54,442	28,718	23,905	2,071	858	5,188	28,038	31,808	-	11,989
									1	-	<u> </u>		1	1	1
	TOTALS	\$ 697,479,403	41.0	\$ 178,547,010	\$ 93,444,570	\$ 123,862,629	\$ 65,338,017	\$ 54,386,468	\$ 4,710,851	\$ 1,952,004	\$ 11,803,638	\$ 63,790,354	\$ 72,366,712	\$ -	\$ 27,277,150
	PERCENTS	100.00%	41.0	25.60%	13.40%	17.76%	9.37%	7.80%	0.68%	0.28%	1.69%	9.15%	10.38%	6 0.00%	3.91%

ALLOCATION OF ACCUMULATED DEPRECIATION TO FUNCTIONAL CLASSIFICATIONS

				Ba	ase			Capacity					Customer		
Account		Total		1	2	Maxim 1	um Day 2	Peak 1	Hour 2	Small	Contract			Billing and	
No.	Description	Amount	Code	Usage	Production	Usage	Production	Usage	Production	Mains	Meters	Meters	Services	Accounting	Hydrants
	SOURCE OF SUPPLY														
310.000	Water Rights - CJO ROW - Supply Main	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Water Rights - Other	-		-	-	-	-	-	-	-	-	_	_	-	-
	Well Field Land	-		-	-	-	-	-	-	-	-	-	-	-	-
311.000	Supply Structures-D&R Supply Structures-Other	111,768 240,176	2.2 4.1	120,088	65,742	84,062	46,026	36,026	-	-		-	-	-	-
313.000	Intakes	338,435	2.2	120,000	199,067	- 04,002	139,368	- 30,020	-	-	-	_	_	-	-
314.000	Wells-CJO	17,408	2.2	-	10,239	-	7,169	-	-	-	-	-	-	-	-
316.000	Wells-Other Supply Mains-D&R	494,162 2,011,673	4.1 2.2	247,081	1,183,266	172,957	828,407	74,124	-	-	-	-	-	-	-
310.000	Supply Mains-Other	88,196	2.1	51,877	1,103,200	36,319	620,407	-	-	-	-	_	_	-	-
		,													
320.000	PUMPING PLANT Land - D&R														
320.000	Land - Oak St	-		-	-	-	-	-	-	-	-	-	-	-	-
	Land - Other			-		-	-	-	-	-	-	-	-	-	-
321.000	Structures - D&R Structures - CJO Thermal	1,623,946 1,205	2.2 2.2	-	955,205 709	-	668,741 496	-	-	-	-	-	-	-	-
	Structures - CJO Booster	2,032,392	4.2	-	1,016,196	-	711,337	-	304,859	-	-	_	_	_	-
	Structures - Oak St Booster	50,918	4.1	25,459	-	17,821	-	7,638	-	-	-	-	-	-	-
323.000	Structures - Other Pumping Power Production Equipment - CJO	2,332,285 2,238,329	4.1 4.2	1,166,143	1,119,165	816,300	783,415	349,843	335,749	-	-	-	-		
	Power Production Equipment - Other	443,686	4.2	221,843	-	155,290	-	66,553	- 333,749	-	-	[-	-	-	-
325.000	Electric Pumping Equipment - D&R	1,372,049	2.2	-	807,039	-	565,010	-	-	-	-	-	-	-	-
	Electric Pumping Equipment - CJO Thermal Electric Pumping Equipment - CJO Filter	8,550 2,140,509	2.2	-	5,029 1,259,047	-	3,521 881,462	-	-	-	-	-			[
	Electric Pumping Equipment - CJO Pinter Electric Pumping Equipment - CJO Booster	1,016,640	4.2	-	508,320	-	355,824		152,496	-		[-	-	-	-
	Electric Pumping Equipment - Oak St	133,219	4.1	66,610		46,627	-	19,983	-	-	-	-	-	-	-
	Electric Pumping Equipment - North Meter Pit Electric Pumping Equipment - East Brunswick	240 3,592	4.1 4.1	120 1,796	-	84 1,257	-	36 539	-	-	-	-	-	-	-
325.100	Electric Pumping Equipment - Other	3,660,606	4.1	1,830,303	-	1,281,212	-	549,091	-	-	-	_	_	-	-
328.000	Other Pumping Equipment - CJO Booster	51,022	2.2	-	30,011	-	21,011	-	-	-	-	-	-	-	-
	Other Pumping Equipment - Other	97,271	4.1	48,636	-	34,045	-	14,591	-	-	-	-	-	-	-
	WATER TREATMENT														
330.000	Land - CJO	-		-	-	-	-	-	-	-	-	-	-	-	-
331.000	Structures - CJO Structures - North Meter Pit	6,044,479 9,181	2.2 4.1	4.591	3,555,362	3,213	2,489,116	1.377	-	-	-	-	-	-	-
	Structures - Other	737,426	4.1	368,713	-	258,099	-	110,614	-	-	-	_	_	_	-
332.000	Water Treatment Equipment - CJO	17,519,712	2.2	-	10,305,095	-	7,214,618	-	-	-	-	-	-	-	-
	Water Treatment Equipment - No. Meter Pit	3,093 1,631	4.1 4.1	1,546 816	-	1,082 571	-	464 245	-	-	-	-	-	-	-
	Water Treatment Equipment - Tices Lane Water Treatment Equipment - Other	2,312,158	4.1	1,156,079	-	809,255	-	346,824	-	-	-	-		-	-
		, , , , , ,						,.							
340.000	TRANSMISSION & DISTRIBUTION Land - ROW 48" Main	_		_	_	_	_	_	_	_	_	_	_	_	_
010.000	Land - ROW SRB	-		-	-	-	-	-	-	-	-	-	-	-	-
	Land - ROW Other	-		-	-	-	-	-	-	-	-	-	-	-	-
342.000	Land - Storage Reservoirs and Standpipes - CJO	1,570,289	5.2	-	-	-	-	-	1,570,289	-	-	-	_	-	-
342.000	Reservoirs and Standpipes - Other	667,322	5.1	-	-	-	-	667,322	1,570,269	-	-	_	_	_	-
343.000	Small Mains	776,900	6.0		-		-	-	-	776,900	-	-	-	-	-
	T&D Mains - East Brunswick T&D Mains - Edison & HP	35,266 218,961	4.1 4.2	17,633	109,480	12,343	76,636	5,290	32,844	-	-	-			[
	T&D Mains - Edison & RP	121,535	4.2	-	60,767]	42,537		18,230	-	-	-		-	
	T&D Mains - Oak St PS	29,703	4.1	14,851	-	10,396	-	4,455	-	-	-	-	-	-	-
	T&D Mains - North Meter Pit Transmission Mains	2,330 18.108.467	4.1 4.1	1,165 9.054.234	-	816 6,337,964	-	350 2,716,270	-	-	-	-			[
	Distribution Mains	18,664,975	4.1	9,332,488	-	6,532,741	-	2,710,270] -	-	-	-	-	-	-
345.000	Services-Retail	20,891,953	9.0		-	-	-	-	-	-		-	20,891,953	-	-
345.100 346.000	Services-Wholesale Meters-Retail	631,604 4.395.338	7.0 8.0	-	-	-	-	-		-	631,604	4,395,338	-		
346.100	Meters-Wholesale	365,520	7.0	-	-	-	-] -	-	365,520	-,353,330	-	-	-
346.200	Meters-Other	38,234	2.2	-	22,489	-	15,745	-	-	-	-	-	-	-	
348.000 349.000	Fire Hydrants Other T&D	4,566,823 115,532	11.0 4.1	57,766	-	40,436	-	17,330] [-	-	-	-	:	4,566,823
0.0.000		- 10,302		3.,700		10,400		,550							
389.000	GENERAL Constall and								1					I	
389.000	General Land Office and Warehouse Building	6,186,170	41.0	1,583,591	828.790	1.098.578	579.504	482.371	41,782	17,313	104,690	565,777	641.844		241.930
391.000	Office Furniture	14,978,458	41.0	3,834,320	2,006,734	2,659,966	1,403,142	1,167,956	101,166	41,920	253,485	1,369,906	1,554,084	-	585,780
392.000	Transportation Equipment	5,851,720	41.0	1,497,976	783,982	1,039,184	548,174	456,292	39,523	16,377	99,030	535,189	607,143	-	228,850
393.000 394.000	Stores Tools, Shop and Garage Equipment	63,850 1,078,821	41.0 41.0	16,345 276,166	8,554 144,535	11,339 191,584	5,981 101,061	4,979 84,122	431 7,286	179 3,019	1,081 18,257	5,840 98,667	6,625 111,933]	2,497 42,191
395.000	Lab Equipment	1,104,901	1.1	1,104,901	-	-	-	-	-	-	-	-	-	-	-
396.000	Power Operated Equipment	416,838	41.0	106,706	55,846	74,025	39,048	32,503	2,815	1,167	7,054	38,123	43,249	-	16,302
397.000 398.000	Communication Equipment Miscellaneous Equipment	1,255,160 295,434	41.0 41.0	321,307 75,628	168,160 39,581	222,899 52,465	117,580 27,675	97,872 23,037	8,477 1,995	3,513 827	21,241 5,000	114,795 27.020	130,229 30,653]	49,087 11,554
223.000		200, 104		, 0,020	00,001	02, .55	21,070	20,007	.,000	52,	5,550	2.,020	55,555		,554
									 					1	
	TOTAL	\$ 149,568,063		\$ 32,606,776	\$ 25,248,411	\$ 22,002,929	\$ 17,672,603	\$ 10,137,842	\$ 2,617,945	\$ 861,214	\$ 1,506,962	\$ 7,150,655	\$ 24,017,712	\$ -	\$ 5,745,014
														•	

- 1	Γ															
-		PERCENTS	100.00%	51.0	21.80%	16.88%	14.71%	11.82%	6.78%	1.75%	0.58%	1.01%	4.78%	16.06%	0.00%	3.84

ALLOCATION OF MATERIALS AND SUPPLIES TO FUNCTIONAL CLASSIFICATIONS

				Bas	е		Extra -	Capacity					Customer		
						Maxim	um Day	Peak	Hour					Billing	
Account		Total		1	2	1	2	1	2	Small	Contract			and	
No.	Description	Amount	Code	Usage	Production	Usage	Production	Usage	Production	Mains	Meters	Meters	Services	Accounting	Hydrants
154.001 163.001 163.901	T & D Materials Stores Stores Allocated	\$ 4,406,788 1,679,442 (1,595,888)	4.1 1.2 1.2	\$ 2,203,394 - -	\$ - 1,679,442 (1,595,888)	\$ 1,542,376 - -	\$ - - -	\$ 661,018 - -	\$ - - -						
	13-Month Average Balance	\$ 4,490,342	61	\$ 2,203,394	\$ 83,554	\$ 1,542,376	\$ -	\$ 661,018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	PERCENTS	100.00%	61	49.07%	1.86%	34.35%	0.00%	14.72%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

ALLOCATION OF PRO FORMA OPERATION AND MAINTENANCE EXPENSES TO FUNCTIONAL CLASSIFICATIONS

	T			Ba	ase		Extra -	Capacity					Customer		
					_	Maxim	um Day	Peak	Hour		_			Billing	
Account No.	Description	Total Amount	Code	1 Usage	2 Production	1 Usage	2 Production	1 Usage	2 Production	Small Mains	Contract Meters	Meters	Services	and Accounting	Hydrants
140.		Airiount	Oodc	Osage	Troduction	Osage	Troduction	Osage	1 TOGGCTION	Widilio	Wictors	WICKETS	CCIVICCS	Accounting	riyalants
	SOURCE OF SUPPLY	_		_	_	_	_	_	_	_			1_		
600	Supervision Labor - Oper Contract Operations	\$ -	2.1	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
602	Purchased Water - NJWSA	3,389,671	2.1 1.2	-	3,389,671	-	-	-	-			_		_	
	Purchased Water - E'town	3,282,392	4.1	1,641,196	-	1,148,837	-	492,359	-	-	-	-	-	-	-
603	Miscellaneous Expense	69,041	1.1	69,041	-	-	-	-	-	-	-	-	-	-	-
	DUMADINO DI ANIT														
620	PUMPING PLANT Supervision Labor - Oper	127,573	1.1	127,573	_	_	_	_	_	_	_	_	_	_	_
	Supervision Expense	-	4.1	-	-	-	-	-	-	-	-	-	-	-	-
623	Power - CJO Plant	1,219,482	2.2	-	717,299	-	502,183	-	-	-	-	-	-	-	-
	Power - CJO D&R Intake Power - CJO Booster	351,054 6,945	2.2 4.2	-	206,490 3,473	-	144,564 2,431	-	1,042	-	-	-	-	-	-
	Power - Other	761,180	4.2	380,590	3,473	266,413	2,431	114,177	1,042	_	_	_	_	_	-
624	Operation Labor	1,726,828	1.1	1,726,828	-	-	-	-	-	-	-	-	-	-	-
	Operation Expense	23,639	1.1	23,639	-	-	-	-	-	-	-	-	-	-	-
626	Miscellaneous Labor Miscellaneous Expense	344,894	1.1 1.1	344,894	-	-	-	-	-	-	-	-	-	-	-
631	Maint Expense - Structures - Labor	-	52.0			_	_	-		1] -] -] -] - [-
	Maint Expense - Structures - Expense	165,424	52.0	31,649	54,511	22,154	38,160	9,495	9,455	-	-	-	-	-	-
633	Maint Expense - Equipment - Labor		53.0				· ·			-	-	-	-	-	-
	Maint Expense - Equipment - Expense	149,859	53.0	40,061	39,309	28,043	27,520	12,018	2,908	-	-	-	-	-	-
	WATER TREATMENT														
640	Supervision Labor - Oper	582,335	1.1	582,335	-	-	-	-	-	-	-	-	-	-	-
	Supervision Expense - Oper	-	2.1	-	-	-	-	-	-	-	-	-	-	-	-
641	Chemicals - CJO Chemicals - Wells	1,353,070	1.2 1.1	1,353,070	-	-	-	-	-	-	-	_	_	_	-
642	Operation Labor	542,813	1.1	542,813	-	-		-	-	-	_		_		-
	Operation Expense	2,429,774	1.1	2,429,774	-	-	-	-	-	-	-	-	-	-	-
643	Miscellaneous Expense	11,141	1.1	11,141	-	-	-	-	-	-	-	-	-	-	-
651	Maint Expense - Structures - Labor Maint Expense - Structures - Expense	14,945	54.0 54.0	139	8,628	97	6,040	42	-	-	-	-	-		
652	Maint Expense - Equipment - Labor	155	55.0	3	88	2	61	1	-	-	-	-	-	-	-
	Maint Expense - Equipment - Expense	46,135	55.0	936	26,036	655	18,228	281	-	-	-	-	-	-	-
	TRANSMISSION & DISTRIBUTION														
660	Supervision Labor - Oper	342,054	70.0	150,734	759	105,514	532	45,220	228	820	_	38,246	_	_	_
662	Operation Labor T & D - Small Mains	6,926	6.0	-	-	-	-	-	-	6,926	-	-	-	-	-
	Operation Expense - T & D - Small Mains	927	6.0	-	-	-		-	-	927	-	-	-	-	-
	Operation Labor T & D - Edison & HP Operation Expense - T & D - Edison & HP	12,825 1,716	4.2 4.2	-	6,413 858	-	4,489 600	-	1,924 257	-	_	_	_	_	-
	Operation Labor T & D - Transmission	810,607	4.1	405,304	-	283,713	-	121,591	-	-	_		_		-
	Operation Expense - T & D - Transmission	108,428	4.1	54,214	-	37,950	-	16,264	-	-	-	-	-	-	-
	Operation Labor T & D - Distribution	1,734,857	4.1	867,429	-	607,200	-	260,229	-	-	-	-	-	-	-
663	Operation Expense - T & D - Distribution Operation Labor - Meters	232,055 339,589	4.1 8.0	116,027		81,219		34,808]	339,589]	_	
663	Operation Expense - Meters	26,539	8.0	-	-	-		-	-	-	-	26,539	-	-	- 1
664	Operation Labor - Cust Installations		9.0	-	-	-	-	-	-	-	-	-	-	-	-
664 665	Operation Expense - Cust Installatn	53,445	9.0 70.0	23,552	- 119	16,486	- 83	7,066	- 36	- 128	-	- 5,976	-	-	·
665	Miscellaneous Labor - Oper Miscellaneous Expense - Oper	53,445 226,253	70.0	23,552 99,704	502	69,793	352	7,066 29,911	151	128 543	-	25,298]] []
666	Rents	219,210	4.1	109,605	-	76,724	-	32,882	-	-	-	· -	-	-	-
670	Supervision Labor - Maint	35,283	71.0	14,439	73	10,108	51	4,332	22	79	-	516	3,048	-	2,616
670 672	Supervision Expense - Maint Maintenance Labor - Storage	164,792	71.0 5.1	67,440	340	47,208	238	20,232	102	367	-	2,411	14,236	-	12,217
672	Maintenance Expense - Storage]	5.1] [-	-	-	-	-	-
673	Maintenance Labor - Small Mains	557	6.0	-	-	-		-	-	557	-	-	-	-	-
	Maintenance Expense - Small Mains	4,345	6.0	-	-	-	001	-	-	4,345	-	-	-	-	-
	Maint.Labor T & D - Edison & HP Maint. Expense - T & D - Edison & HP	1,032 8,047	4.2 4.2	-	516 4,023	-	361 2,816	-	155 1,207	-			-		[[
	Maint. Labor T & D - Transmission	65,191	4.2	32,595	4,023	22,817		9,779	-	-	-	-]	-	-
	Maint. Expense - T & D - Transmission	508,578	4.1	254,289	-	178,002	-	76,287	-	-	-	-	-	-	-
	Maint. Labor T & D - Distribution	139,522	4.1	69,761	-	48,833	-	20,928	-	-	-	-	-	-	-
675	Maint. Expense - T & D - Distribution Maintenance Labor - Services	1,088,454 32,884	4.1 9.0	544,227] [380,959		163,268	-	-	-	-	32,884		
675	Maintenance Expense - Services	157,280	9.0	-	-	-	-	-	-	-	-	-	157,280	-	-
676	Maintenance Labor - Meters	-	8.0	-	-	-	-	-	-	-	-	-	-	-	-
676 677	Maintenance Expense - Meters Maintenance Labor - Hydrants	32,212 61,182	8.0 11.0	-	· -	-	-	-	-	-	-	32,212	-	-	- 61,182
677	Maintenance Expense - Hydrants	102,020	11.0] [] [] []		-	-	-]		102,020
678	Misc. Payroll		71.0	-	-	-		-	-	-	-	-	-	-	-

ALLOCATION OF PRO FORMA OPERATION AND MAINTENANCE EXPENSES TO FUNCTIONAL CLASSIFICATIONS

				Ba	ise		Extra -	Capacity					Customer		
						Maxim	um Day	Peak	Hour	1				Billing	
Account		Total								Small	Contract			and	
No.	Description	Amount	Code	Usage	Production	Usage	Production	Usage	Production	Mains	Meters	Meters	Services	Accounting	Hydrants
	CUSTOMER ACCOUNTS													.=	
901	Supervision Labor	226,129	69.0	-	-	-		-	-	-	-	52,643	-	173,486	-
901	Supervision Expense	14,218	69.0	-	-	-		-	-	-	-	3,310	-	10,908	-
902	Meter Reading Labor	489,814	8.0	-	-	-		-	-	-	-	489,814	-	-	-
902	Meter Reading Expense	116,598	8.0	-	-	-		-	-	-	-	116,598	-	-	-
903	Customer Records Labor	1,039,429	10.0	-	-	-		-	-	-	-	-	-	1,039,429	-
903	Customer Records Expense	324,596	10.0	-	-	-		-	-	-	-	-	-	324,596	-
904	Uncollectible Accounts	634,407	10.0	-	-	-		-	-	-	-	-	-	634,407	-
905	Customer Account Expenses	134,969	10.0	-	-	-		-	-	-	-	-	-	134,969	-
	ADMINISTRATION AND GENERAL														
930	Miscellaneous Exp - Labor	_	73.0	_	_	_	_	_	_	_		_	_	_	
930	Miscellaneous Gen Expense	1,151,653	73.0	639,837	10,408	147,693	7,286	63,297	1,204	1,075	-	82,954	15,187	169,678	13,033
920	Admin and Gen Salaries	5,247,232	73.0	2,915,266	47,422	672,927	33,198	288,397	5,485	4,900	-	377,962	69,194	773,098	59,383
920	Admin and Gen Expenses	441,852	73.0	2,915,266	3,993	56,665	2,796	24,285	462	4,900	•	31,827	5.827	65.100	5.000
920	Office Supplies and Exp	1,255,829	73.0	697.715	11.350	161.053	7.945	69,023	1.313	1.173	-	90,458	16,560	185.027	14.212
923	Outside Services	(1,438,885)	73.0	(799,418)	(13,004)	(184,529)	(9,104)	(79,084)	(1,504)	(1,344)	-	(103,644)	(18,974)	(211,997)	(16,284)
923	Regulatory Comm Expense	234.000	73.0	130.006	2.115	30,009	(9,104)	12.861	(1,504)	(1,344)		16.855	3.086	(211,997)	2.648
950	Transportation Clearing - Labor	234,000	73.0	130,000	2,115	30,009	1,400	12,001	243	219	•	-,	3,000	34,470	2,040
		-	73.0	-	-	-	-	-	-	-	-	-	-	-	-
950 924	Transporttation Clearing - Expense Life Insurance	-	73.0	-	-	-	-	-	-	-	-	-	-	-	-
924	Property Insurance	357.074	41.0	91.407	47.839	63,411	33,450	27.843	2.412	999	6.043	32.657	37.048	-	13.965
924	Injuries and Damages			335.965	175.831	233.068			2,412 8,864	3.673	22,210	120.032	136,170	-	
		1,312,421	41.0	263.406			122,944	102,337	8,864 272	3,673 452	, .	120,032 43,717		67.130	51,326
925	Worker's Compensation	471,413	75.0		1,949	59,702	1,364	25,587			-		3,637		4,198
926	Pensions and Benefits Office Rentals	4,872,126	75.0 73.0	2,722,335 441.877	20,142	617,030	14,101	264,441	2,816	4,675 743	-	451,818	37,591	693,795	43,382
931		795,341			7,188	101,998	5,032	43,713	831		-	57,289	10,488	117,181	9,001
932	General Maint Labor	476,634	73.0	264,809	4,308	61,126	3,016	26,197	498	445	-	34,332	6,285	70,225	5,394
932	General Maint Expense	2,122,137	73.0	1,179,020	19,179	272,152	13,426	116,636	2,218	1,982	-	152,859	27,984	312,664	24,016
932	Maint of Grounds - Labor	-	73.0	-	-	-	-	-	-	-	-	-	-	-	-
953	Heating Fuel		73.0						Ī		-				
965	Variance (Antenna Revenue)	(80,671)	73.0	(44,819)	(729)	(10,346)	(510)	(4,434)	(84)	(75)	-	(5,811)	(1,064)	(11,886)	(913)
	TOTAL	\$ 43,313,474	74.0	\$ 21,197,894	¢ 4707.006	© E 714 COE	\$ 985,133	\$ 2,452,268	\$ 42,517	\$ 34,020	\$ 28,253	\$ 2,516,458	¢ 556.467	\$ 4,582,285	\$ 406,398
	TOTAL	\$ 43,313,474	74.0	\$ ∠1,197,894	\$ 4,797,096	\$ 5,714,685	\$ 985,133	\$ 2,452,268	a 42,517	\$ 34,020	р 28,253	⇒ ∠,516,458	\$ 556,467	\$ 4,582,285	\$ 406,398
	PERCENTS	100.00%	74.0	48.94%	11.08%	13.19%	2.27%	5.66%	0.10%	0.08%	0.07%	5.81%	1.28%	10.58%	0.94%

ALLOCATION OF DEPRECIATION EXPENSE TO FUNCTIONAL CLASSIFICATIONS

				Ba	ise		Extra -						Customer		
						Maxim	um Day	Peak	Hour					Billing	
Account No.	Description	Total Amount	Code	1 Usage	2 Production	1 Usage	2 Production	1 Usage	2 Production	Small Mains	Contract Meters	Meters	Services	and Accounting	Hydrants
INO.	Description	Amount	Code	Usage	Production	Usage	Production	Usage	Production	iviairis	ivieters	ivieters	Services	Accounting	nyuranis
311.000 313.000 314.000 316.000 321.000 323.000 325.000	SOURCE OF SUPPLY Supply Structures-D&R Supply Structures-Other Intakes Wells-CJO Wells-Other Supply Mains-D&R Supply Mains-Other PUMPING PLANT Structures - D&R Structures - CJO Thermal Structures - CJO Booster Structures - Other Pumping Power Production Equipment - CJO Power Production Equipment - Other Electric Pumping Equipment - Other Electric Pumping Equipment - CJO Thermal	\$ 8,354 30,473 9,383 1,337 20,937 103,000 18,916 85,917 34 138,592 1,751 126,750 103,800 19,272 57,840 272	2.2 4.1 2.2 2.2 4.1 2.2 2.1 2.2 4.1 4.1 4.1 4.2 4.1 2.2 2.2	\$. 15,236 . 10,468.52 . 11,127 .	5,519 786 - 60,584 - 50,537 20 69,296 - - 51,900 34,021 160	\$ - 10,666 - 7,327.97 - 7,790 613 44,362 - 6,745	\$ 3,440 3,864 550 42,415 35,381 14 48,507 - 36,330 - 23,818 112	\$ - 4,571 - 3,140.56 	\$	\$	\$	\$	\$	\$	\$ -
325.100 328.000	Electric Pumping Equipment - CJO Filter Electric Pumping Equipment - CJO Booster Electric Pumping Equipment - Oak St Electric Pumping Equipment - North Meter Pit Electric Pumping Equipment - East Brunswick Electric Pumping Equipment - Other Other Pumping Equipment - CJO Booster Other Pumping Equipment - Other	107,781 63,861 4,409 12 180 259,498 13,176 25,158	2.2 4.2 4.1 4.1 4.1 4.1 4.1	2,205 6 90 129,749 6,588 12,579	63,397 31,930 - - - - - -	1,543 4 663 90,824 4,612 8,805	44,384 22,351 - - - - - - -	661 2 27 38,925 1,976 3,774	9,579 - - - - - - -		-	-			
331.000 332.000	WATER TREATMENT Structures - CJO Structures - North Meter Pit Structures - Other Water Treatment Equipment - CJO Water Treatment Equipment - No. Meter Pit Water Treatment Equipment - Tices Lane Water Treatment Equipment - Other	1,645,629 367 30,598 1,461,553 125 75 72,937	2.2 4.1 4.1 2.2 4.1 4.1 4.1	- 184 15,299 - 62 38 36,469	967,959 - - 859,686 - - -	- 129 10,709 - 44 26 25,528	677,670 - - - 601,868 - - -	- 55 4,590 - 19 11 10,941	- - - - -	- - - - -	-	-			
342.000 343.000 345.000 345.100	TRANS & DIST PLANT Reservoirs and Standpipes - CJO Reservoirs and Standpipes - Other Small Mains T&D Mains - East Brunswick T&D Mains - Edison & HP T&D Mains - CJO PS T&D Mains - OA St PS T&D Mains - Oxorth Meter Pit Transmission Mains Distribution Mains Services-Retail Services-Wholesale	49,575 28,588 54,761 978 5,562 4,145 1,022 104 2,160,112 1,211,065 1,805,415 203,128	5.2 5.1 6.0 4.1 4.2 4.2 4.1 4.1 4.1 9.0 7.0	14,294 - 489 - 511 52 1,080,056 605,533	- - - 2,781 2,073 - - - - -	10,006 - 342 - - 358 36 756,039 423,873	- - - 1,947 1,451 - - - - -	4,288 - 147 - 153 153 116 324,017 181,660	49,575 	- 54,761 - - - - - - - -	- - - - - - - - - - - - - - - - - - -	-	- - - - - - - - 1,805,415	-	-
346.000 346.100 346.200 348.000 349.000	Meters-Retail Meters-Wholesale Meters-Other Fire Hydrants Other T&D	1,496,896 88,513 1,530 531,122 51,093	8.0 7.0 2.2 11.0 4.1	- - - 25,547	- 900 - -	- - - 17,883	- 630 - -	- - - 7,664	- - - -	- - - -	88,513 - - -	1,496,896 - - - - -	- - - -	- - - -	531,122
390.000 391.000 392.000 393.000 394.000 395.000 396.000 397.000 398.000	GENERAL PLANT Office and Warehouse Building Office Furniture Transportation Equipment Stores Tools, Shop and Garage Equipment Lab Equipment Power Operated Equipment Communication Equipment Miscellaneous Equipment	401,846 2,313,396 1,127,435 - 107,668 30,426 25,844 616,456 505	41.0 41.0 41.0 41.0 41.0 1.1 41.0 41.0	102,868 592,204 288,611 - 27,562 30,426 6,616 157,806 129	53,837 309,936 151,048 - 14,425 - 3,462 82,589 68	71,362 410,827 200,217 - 19,120 - 4,590 109,474 90	37,644 216,713 105,615 - 10,086 - 2,421 57,748 47	31,334 180,389 87,913 - 8,395 - 2,015 48,069 39	2,714 15,625 7,615 - 727 - 175 4,164 3	1,125 6,474 3,155 - 301 - 72 1,725	6,801 39,150 19,080 - 1,822 - 437 10,432 9	103,113 - 9,847 - 2,364	41,693 240,026 116,977 - 11,171 - 2,681 63,960 52	-	15,715 90,473 44,092 - 4,211 - 1,011 24,108 20
	TOTAL	\$ 16,729,174	83	\$ 3,246,689	\$ 2,821,829	\$ 2,244,008	\$ 1,975,007	\$ 966,956	\$ 127,992	\$ 67,615			\$ 2,281,975		\$ 710,752
	PERCENTS	100.00%	83	19.41%	16.87%	13.41%	11.81%	5.78%	0.77%	0.40%	2.21%	11.46%	13.64%	0.00%	4.25%

SUMMARY OF FUNCTIONAL ALLOCATION FACTORS

					Extra -	Capacity					Customer		
				Maximum	Maximum	Peak	Peak	Small	Contract			Billing and	
Description	Code	Base 1	Base 2	Day 1	Day 2	Hour 1	Hour 2	Mains	Meters	Meters	Services	Accounting	Hydrants
BASE 1 - CONSUMPTION BASE 2 - PRODUCTION	1.1 1.2	1.000000	1.000000										
BASE / MAXIMUM DAY - CONSUMPTION BASE / MAXIMUM DAY - PRODUCTION	2.1 2.2	0.588200	0.588200	0.411800	0.411800								
BASE / PEAK HOUR - CONSUMPTION BASE / PEAK HOUR - PRODUCTION	3.1 3.2	0.500000	0.500000			0.500000	0.500000						
BASE / MAXIMUM DAY / PEAK HOUR - CONSUMPTI BASE / MAXIMUM DAY / PEAK HOUR - PRODUCTN	4.1 4.2	0.500000	0.500000	0.350000	0.350000	0.150000	0.150000						
PEAK HOUR - CONSUMPTION PEAK HOUR - PRODUCTION	5.1 5.2					1.000000	1.000000						
SMALL MAINS	6							1.000000					
CONTRACT METERS	7								1.000000				
CUSTOMER - METERS	8									1.000000			
CUSTOMER - SERVICES	9										1.000000		
CUSTOMER - BILLING & ACCOUNTING	10											1.000000	
HYDRANTS	11												1.000000
TOTAL OPERATING REVENUE	21	0.356581	0.124522	0.158912	0.063006	0.060383	0.003145	0.001784	0.010841	0.085342	0.061663	0.047908	0.025915
RATE BASE	31	0.260918	0.129223	0.195200	0.089566	0.065401	0.003818	0.002019	0.018469	0.106929	0.088991	0.000161	0.039305
ADVANCES	32	0.438592	0.000000	0.000000	0.000000	0.438592	0.000000	0.000000	0.000000	0.000000	0.138241	0.000000	-0.015424
CIAC	33	0.463325	0.000000	0.006123	0.000000	0.457202	0.000000	0.000000	0.026055	0.000590	0.011727	0.000000	0.034978
UTILITY PLANT IN SERVICE	41	0.255989	0.133975	0.177586	0.093677	0.077976	0.006754	0.002799	0.016923	0.091458	0.103755	0.000000	0.039108
ACCUMULATED DEPRECIATION	51	0.218006	0.168809	0.147110	0.118158	0.067781	0.017503	0.005758	0.010075	0.047809	0.160580	0.000000	0.038411
PUMPING STRUCTURES	52	0.191322	0.329521	0.133925	0.230679	0.057396	0.057157	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
PUMPING EQUIPMENT	53	0.267327	0.262309	0.187129	0.183636	0.080198	0.019402	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
TREATMENT STRUCTURES	54	0.009278	0.577285	0.006495	0.404158	0.002783	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
TREATMENT EQUIPMENT	55	0.020289	0.564332	0.014202	0.395090	0.006087	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
MATERIALS AND SUPPLIES	61	0.490696	0.018607	0.343487	0.000000	0.147209	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
SUPERVISION - CUSTOMER SERVICE	69	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.232800	0.000000	0.767200	0.000000
OTHER T&D - OPERATIONS	70	0.440674	0.002220	0.308472	0.001554	0.132202	0.000666	0.002398	0.000000	0.111813	0.000000	0.000000	0.000000
OTHER T&D - MAINTENANCE	71	0.409245	0.002062	0.286472	0.001443	0.122774	0.000619	0.002227	0.000000	0.014633	0.086387	0.000000	0.074139
O&M - EXCL POWER, CHEM & PURCH WATER	73	0.555582	0.009037	0.128244	0.006327	0.054962	0.001045	0.000934	0.000000	0.072031	0.013187	0.147334	0.011317
TOTAL OPERATING EXPENSE	74	0.489406	0.110753	0.131938	0.022744	0.056617	0.000982	0.000785	0.000652	0.058099	0.012847	0.105794	0.009383
ALL LABOR	75	0.558757	0.004134	0.126645	0.002894	0.054276	0.000578	0.000960	0.000000	0.092735	0.007716	0.142401	0.008904
DEPRECIATION EXPENSE	83	0.194073	0.168677	0.134137	0.118058	0.057801	0.007651	0.004042	0.022080	0.114589	0.136407	0.000000	0.042486

Ratio

Ratio

Ratio

1.00

0.70

2.00

1.00

1.00

100.00%

41.18%

100.009

50.00%

50.00%

100 00%

MIDDLESEX WATER COMPANY

EXPLANATION OF FUNCTIONAL ALLOCATION FACTORS

Maximum Day Demand

Extra Capacity / Maximum Day:

Average Day Demand

Peak Hour Demand

Peak Hour Demand

Average Day Demand

Extra Capacity/Peak Hour

- 1.1 Applicable to items considered to be related to "Base" or average day system demands, and allocable among the various functional service areas. Allocated 100% to base.
- 1.2 Applicable to items considered to be related to "Base" or average day CJO production, and allocable among the various functional service areas. Allocated 100% to base.
- 2.1 Applicable to items considered to be related to meeting the maximum day system demands.2.2 Applicable to items considered to be related to meeting the maximum day CJO production.

The calculation of the factor is as follows:

The calculation of the factor is as follows:

3.1 Applicable to mains, considered to be related to meeting the peak hour system demands.3.2 Applicable to mains, considered to be related to meeting the peak hour CJO production.

The calculation of the factor is as follows.

.1 Applicable to pumping plant, considered to be related to meeting the max day and peak hour system demands.

4.2 Applicable to pumping plant, considered to be related to meeting the max day and peak hour CJO production.

The calculation of the factor is as follows:

_	Applicable to pumping plant, considered to be related to meeting the max day and peak notified one production.	i cak rioai berriana	2.00	100.0070
		Max Day Demand	1.70	
		Excess Peak Hour over Max Day	0.30	15.00%
		Extra Capacity / Maximum Day:	0.70	35.00%
		Average Day Demand	1.00	50.00%

- 5.1 Applicable to items considered to be related entirely to meeting peak hour system demands. Allocated 100% to Extra-Capacity/Peak Hour.
- 5.2 Applicable to items considered to be related entirely to meeting peak hour CJO production. Allocated 100% to Extra-Capacity/Peak Hour.
- 6 Applicable to items considered to be related entirely to small mains. Allocation 100% to "Small Mains".
- Applicable to items considered to be related entirely to contract (wholesale) meters. Allocation 100% to "Contract Meters".
- 8 Applicable to items considered to be related entirely to meters. Allocation 100% to "Meters".
- 9 Applicable to items considered to be related entirely to services. Allocation 100% to "Services".
- 10 Applicable to items considered to be entirely related to customer billing and accounting. Allocated 100% to "Billing and Accounts".
- 11 Applicable to items considered to be related entirely to Company owned fire hydrants. Allocated 100% to "Hydrants".
- 21 Applicable to the other taxes including Regulatory Fees. Factors are based on the overall weighted allocation of revenue requirement.
- 31 Applicable to items considered to be related to the Rate Base. Factors are based on the overall weighted allocation of all elements of the rate base.
- 32 Applicable to total Advances. Factors are based on the overall weighted allocation of advances by type of plant.

							Extra -	Capacity					Customer		
	T							B I	D I	0	0			Billing	
Description	Total Amount	Code		Base	Base 2	Maximum Day	Maximum Day 2	Peak Hour	Peak Hour 2	Small Mains	Contract Meters	Meters	Services	and Accounting	Hydrants
·	741104110	0000		Buoo	Dato L	Day	Day 2	- Tioui	Tiodi 2	Wanto	Wotoro	Wicker	COLVICOS	7100001111119	riyarano
ADVANCES Mains	\$ 2,427,650		5	\$ 1,213,825	\$ -	\$ -	\$ -	\$ 1,213,825	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Services Meters	382,588	9			-		-	_			_	-	382,588	_	1 [
Hydrants	(42,687	11		-	-	-	-	-	-	-	-	-	-	-	(42,687)
TOTAL PERCENT	\$ 2,767,551 100.00%		\$	\$ 1,213,825 43.86%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ 1,213,825 43.86%		\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ 382,588 13.82%	\$ - 0.00%	\$ (42,687) -1.54%

Applicable to total CIAC. Factors are based on the overall weighted allocation of CIAC by type of plant.

							Extra -	Capac	city							Customer			
Description	Total Amount	Code	Base	Base 2	М	laximum Day	Maximum Day 2		Peak Hour	Peak Hour 2		Small Mains		ntract eters	Meters	Services	Billing and Accounting	F	Hydrants
CIAC Land - Easements SRB	\$ 507,816	7	s -	s -	•		s -		_	\$ -	•		\$	507,816	٠.		٩ .	¢	
Wells	Ψ 307,010	2	,		Ψ		ψ -	Ψ	-	Ψ -	Ψ	-	Ψ	307,010	· -		Ψ -	Ψ	
Pumping	340,944	4	170,472	_		119,330	_		51,142	-		_		-	_		-		
Storage	-	5	-	-		-	-			-		-		-	-		-		-
Transmission Mains	8,640,577	3	4,320,288	-		-	-		4,320,288	-		-		-	-		-		-
Distribution Mains	9,079,087	3	4,539,544	-		-	-		4,539,544	-		-		-	-		-		-
Services	228,562	9	-	-		-	-		-	-		-		-	-	228,562	-		-
Meters	11,504	8	-	-		-	-		-	-		-		-	11,504	-	-		-
Hydrants	681,724	11	-	-		-	-		-	-		-		-	-		-		681,724
TOTAL PERCENT	\$ 19,490,214 100.00%	33	\$ 9,030,304 46.33%	\$ - 0.00%	\$	119,330 0.61%	\$ - 0.00%	\$	8,910,973 45.72%	\$ - 0.00%	\$	- 0.00%	\$	507,816 2.61%	\$ 11,504 0.06%		\$ - 0.00%	\$	681,724 3.50%

EXPLANATION OF FUNCTIONAL ALLOCATION FACTORS

- 41 Applicable to utility plant considered to be of an overhead nature, and related expenses. Factors are based on the overall weighted allocation of all items of utility plant, also applicable to property taxes, ITC and insurance.
- 51 Resulting overall weighted factors for accumulated depreciation.
- 52 Applicable to maintenance of Pumping Structures. Factors are based on the overall weighted allocation of the original cost of pumping structures and improvements.

						Extra -	Capacity					Customer		
													Billing	
	Total				Maximum	Maximum	Peak	Peak	Small	Contract			and	
Description	Amount	Code	Base	Base 2	Day	Day 2	Hour	Hour 2	Mains	Meters	Meters	Services	Accounting	Hydrants
Structures - D&R	\$ 2,753,758	2.2	s -	\$ 1,619,760	s -	\$ 1,133,998	s -	s -	s -	\$ -	s -	\$ -	s -	\$ -
Structures - CJO Thermal	1,094	2.2	-	643	-	451	-	-	-	-	-	-	-	-
Structures - CJO Booster	4,442,067	4.2	-	2,221,034	-	1,554,723	-	666,310	-	-	-	-	-	-
Structures - Oak St Booster	56,127	4.1	28,064	-	19,644	-	8,419	-	-	-	-	-	-	-
Structures - Other Pumping	4,404,589	4.1	2,202,295	-	1,541,606	-	660,688	-	-	-	-	-	-	-
TOTAL	\$ 11,657,635	52	\$ 2,230,358							\$ -	s -	\$ -	\$ -	\$ -
PERCENT	100.00%		19.13%	32.95%	13.39%	23.07%	5.74%	5.72%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Applicable to maintenance of Pumping Equipment. Factors are based on the overall weighted allocation of the original cost of pumping equipment (excluding meter pit and East Brunswick pumping equipment).

						Ex	tra - C	Capacity						Customer				
Description	Total Amount	Code	Base	Base 2	Maximum Day	Maximur Day 2	n	Peak Hour	Peak lour 2	Small Mains	Contract Meters	Meters		Services	á	illing and ounting	Hyd	drants
Electric Pumping Equipment - D&R Electric Pumping Equipment - CJO Thermal Electric Pumping Equipment - CJO Filter Electric Pumping Equipment - CJO Booster Electric Pumping Equipment - Odk St Electric Pumping Equipment - Other	\$ 2,015,322 9,486 3,755,451 2,225,118 153,628 9,044,023	2.2 2.2 4.2 4.1	\$ - - - 76,814 4,522,012	\$ 1,185,412 5,580 2,208,956 1,112,559	-	3, 1,546, 778,		\$ - - 23,044 1,356,603	\$ - - 333,768 - -	\$ - - - - -	\$ -	\$ - - - -			⇔		\$	-
TOTAL PERCENT	\$ 17,203,028 100.00%		\$ 4,598,826 26.73%	\$ 4,512,507 26.23%			102 36%	\$ 1,379,648 8.02%	\$ 333,768 1.94%	\$ - 0.00%	\$ 0.00%	\$ - 0.0	0%	\$ - 0.00%	\$	0.00%	\$	0.00%

54 Applicable to maintenance of Treatment Structures. Factors are based on the overall weighted allocation of the original cost of treatment structures and improvements.

							Extra - C	Capacity						Cu	stomer		ĺ	
Description	Total Amount	Code	Base	Base 2		Maximum Day	aximum Day 2	Peak Hour	eak our 2	Small Mains	Contract Meters	Me	eters	Se	ervices	Billing and counting	F	Hydrants
Structures - CJO Structures - North Meter Pit Structures - Other	\$ 60,433,666 13,551 1,129,085	2.2 4.1 4.1	\$ - 6,776 564,543	\$ 35,547,0)82 \$	4,743 395,180	24,886,584 - -	\$ - 2,033 169,363	\$ 	\$ -	\$ 	\$		\$	-	\$ 	\$	
TOTAL PERCENT	\$ 61,576,302 100.00%	54	\$ 571,318 0.93%	\$ 35,547,0 57.7		399,923 0.65%	24,886,584 40.42%	\$ 171,395 0.28%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$	0.00%	\$	0.00%	\$ 0.00%	\$	0.00%

55 Applicable to maintenance of Treatment Equipment. Factors are based on the overall weighted allocation of the original cost of treatment equipment (excluding meter pit and East Brunswick pumping equipment).

						Extra -	Capacity					Customer		
Description	Total Amount	Code	Base	Base 2	Maximum Day	Maximum Day 2	Peak Hour	Peak Hour 2	Small Mains	Contract Meters	Meters	Services	Billing and Accounting	Hydrants
Water Treatment Equipment - CJO Water Treatment Equipment - No. Meter Pit Water Treatment Equipment - Tices Lane Water Treatment Equipment - Other	\$ 53,733,573 4,582 2,766 2,265,234	2.2 4.1 4.1 4.1	\$ - 2,291 1,383 1,132,617	\$ 31,606,088 - - -	\$ - 1,604 968 792,832	-	\$ - 687 415 339,785	\$ - - - -	\$ - - - -	\$ - - - -	\$ - - -	\$ - - - -	\$ - - - -	\$ - - - -
TOTAL PERCENT	\$ 56,006,155 100.00%		\$ 1,136,291 2.03%	\$ 31,606,088 56.43%				\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%	\$ - 0.00%

EXPLANATION OF FUNCTIONAL ALLOCATION FACTORS

- 61 Resulting overall weighted factors for materials and supplies.
- 9 Applicable to Customer Services Supervision Labor and Expense. Factors are based on the overall weighted allocation of meter reading and customer record labor and expenses and uncollectible accounts.

						Extra -	Capacity					Customer		
													Billing	
	Total				Maximum	Maximum	Peak	Peak	Small	Contract			and	
Description	Amount	Code	Base	Base 2	Day	Day 2	Hour	Hour 2	Mains	Meters	Meters	Services	Accounting	Hydrants
Meter Reading - Expenses & Labor	\$ 606,412		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 606,412	\$ -	\$ -	\$ -
Customer Records - Expenses & Labor	1,364,024		-	-	-	-	-	-	-	-	-	-	1,364,024	-
Uncollectible Accounts	634,407		-	-	-	-	-	-	-	-	-	-	634,407	-
TOTAL PERCENT	\$ 2,604,844	69	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 606,412	\$ -	\$ 1,998,432	\$ -
PERCENT	100.00%	,	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	23.28%	0.00%	76.72%	0.00%

70 Applicable to Other Transmission and Distribution Operations Expense. Factors are based on the overall weighted allocation of Storage, Mains, and Meters operations expense.

						Extra - (Capacity					Customer		
Description	Total Amount	Code	Base	Base 2	Maximum Day	Maximum Day 2	Peak Hour	Peak Hour 2	Small Mains	Contract Meters	Meters	Services	Billing and Accounting	Hydrants
T&D - Storage, Mains, Meters Services & Hydrants TOTAL PERCENT	\$ 3,274,468 100.00%		\$ 5 1,442,973 44.07%	\$ 7,270 0.22%	\$ 1,010,081 30.85%		\$ 432,892 13.22%	\$ 2,181 0.07%	\$ 7,852 0.24%	\$ - 0.00%	\$ 366,128 11.18%		\$ - 0.00%	\$ - 0.00%

71 Applicable to Other Transmission and Distribution Maintenance Expense. Factors are based on the overall weighted allocation of Storage, Mains, Meters, Services and Hydrants maintenance expense.

						Extra -	Capacity					Customer		
Description	Total Amount	Code	Base	Base 2	Maximum Day	Maximum Day 2	Peak Hour	Peak Hour 2	Small Mains	Contract Meters	Meters	Services	Billing and Accounting	Hydrants
T&D - Storage, Mains, Meters Services & Hydrants TOTAL PERCENT	\$ 2,201,303 100.00%	71	\$ 900,873 40.92%	\$ 4,539 0.21%	\$ 630,611 28.65%	\$ 3,178 0.14%	\$ 270,262 12.28%			\$ - 0.00%	\$ 32,212 1.46%	\$ 190,164 8.64%	\$ - 0.00%	\$ 163,202 7.41%

Applicable to operation and maintenance expenses considered to be of an overhead nature. Factors are based on the overall weighted allocation of all other operation and maintenance expenses except power, chemicals and purchased water.

						Extra -	Capacity					Customer		
Description	Total Amount	Code	Base 1	Base 2	Maximum Day	Maximum Day 2	Peak Hour	Peak Hour 2	Small Mains	Contract Meters	Meters	Services	Billing and Accounting	Hydrants
TOTAL PERCENT	\$ 15,731,524 100.00%	73	\$ 8,740,147 55.56%	\$ 142,174 0.90%	\$ 2,017,476 12.82%	\$ 99,530 0.63%	\$ 864,633 5.50%		\$ 14,691 0.09%	\$ - 0.00%	\$ 1,133,152 7.20%	\$ 207,448 1.32%	\$ 2,317,795 14.73%	\$ 178,035 1.13%

- 74 Resulting overall weighted allocation of all operation and maintenance expenses. Applicable to cash working capital.
- Applicable to employee benefit. Factors are based on the overall weighted allocation of all labor expense.

							Extra -	Capacity					Customer		
														Billing	
	Total					Maximum		Peak	Peak	Small	Contract			and	
Description	Amount	Code		Base 1	Base 2	Day		Hour 1	Hour 2	Mains	Meters	Meters	Services	Accounting	Hydrants
TOTAL	\$ 14,439,789		5	8,068,335	\$ 59,697	\$ 1,828,725	\$ 41,791	\$ 783,739	\$ 8,347	\$ 13,855	\$ -	\$ 1,339,078	\$ 111,412	\$ 2,056,237	\$ 128,575
PERCENT	100.00%			55.88%	0.41%	12.66%	0.29%	5.43%	0.06%	0.10%	0.00%	9.27%	0.77%	14.24%	0.89%

83 Resulting overall allocation of Depreciation Expense. Applicable to deferred income taxes.

SUMMARY OF SYSTEM WATER DEMANDS

Description	Factor	Quantity	Unit
Average Day	1.00	39.301	MGD
Maximum Day	1.70	66.811	MGD
Peak Hour	2.00	78.601	MGD
Fire Demand		12,000	GPM
Maximum Day Fire Use		7.200	MG
Max Day Plus Fire Demand		84.09	MGD

CUSTOMER CLASS ALLOCATION FACTORS

Based on Water Usage by All Customers

		AF 46													
		- Average Consum			Maxim	um Day			Peak	Hour				Percentage	
Customer Class	Annual		AF46			Extra				Extra		Average	Maximum	Peak	
	(TG)	MGD	%	Ratio	MGD	MGD	%	Ratio	MGD	MGD	%	0.5	0.35	0.1500	%
METERED SERVICE:															
Residential	3,683,758	10.092	29.170	2.00	20.184	10.092	38.540	3.45	34.817	14.6330	41.830	14.585	13.489	6.275	34.349
Commercial	1,693,092	4.639	13.400	1.40	6.495	1.856	7.090	1.60	7.422	0.9270	2.650	6.700	2.482	0.398	9.580
Industrial	1,315,781	3.605	10.420	1.25	4.506	0.901	3.440	1.30	4.687	0.1810	0.520	5.210	1.204	0.078	6.492
Wholesale 1 (East Brunswick)	2,548,109	6.981	20.170	1.50	10.472	3.491	13.330	2.00	13.962	3.4900	9.980	10.085	4.666	1.497	16.248
Wholesale 2 (Edison / Highland Park)	961,380	2.634	7.610	1.50	3.951	1.317	5.030	2.00	5.268	1.3170	3.760	3.805	1.761	0.564	6.130
Wholesale 3 (Rahway)	189,944	0.520	1.500	1.50	0.780	0.260	0.990	2.00	1.040	0.2600	0.740	0.750	0.347	0.111	1.208
Wholesale 4 (So. River Basin)	2,065,009	5.658	16.350	1.50	8.487	2.829	10.800	2.00	11.316	2.8290	8.090	8.175	3.780	1.214	13.169
Subtotal	12,457,073	34.129	98.620		54.875	20.746	79.220		78.512	23.6370	67.570	49.310	27.729	10.137	87.176
FIRE SERVICE Private	104,654	0.287	0.840		2.365	2.078	7.940		6.904	4.5387	12.970	0.420	2.779	1.946	5.145
Public	68,659	0.188	0.540		3.548	3.360	12.840		10.356	6.8080	19.460	0.270	4.492	2.917	7.679
Total	12,630,386	34.604	100.000		60.789	26.185	100.000		95.772	34.984	100.000	50.000	35.000	15.000	100.000

Based on CJO Production for All Customers

		AF 41 Base							AF 43 Avg - Ma			AF 4				F44 Avg - M		
		verage Consumption			Maxim	um Day			eighted Percen			Peak				Neighted Pe		
Customer Class	Annual		AF 41			Extra		Average	Maximum	AF 43			Extra	AF 45	Average	Maximum	Peak	AF 44
	(TG)	MGD	%	Ratio	MGD	MGD	%	0.5882	0.4118	%	Ratio	MGD	MGD	%	0.5	0.35	0.1500	%
METERED SERVICE:																		1
Residential	2,882,287	7.897	25.880	2.00	15.794	7.897	34.690	15.223	14.285	29.508	3.45	27.245	11.4510	43.170	12.940	12.142	6.476	31.560
Commercial	1,324,728	3.629	11.900	1.40	5.081	1.452	6.380	7.000	2.627	9.627	1.60	5.806	0.7250	2.730	5.950	2.233	0.410	8.590
Industrial	1,029,508	2.821	9.240	1.25	3.526	0.705	3.100	5.435	1.277	6.712	1.30	3.667	0.1410	0.530	4.620	1.085	0.080	5.790
Wholesale 1 (East Brunswick)	2,548,109	6.981	22.880	1.50	10.472	3.491	15.340	13.458	6.317	19.775	2.00	13.962	3.4900	13.160	11.440	5.369	1.974	18.780
Wholesale 2 (Edison / Highland Park)	961,380	2.634	8.630	1.50	3.951	1.317	5.790	5.076	2.384	7.461	2.00	5.268	1.3170	4.960	4.315	2.027	0.744	7.090
Wholesale 3 (Rahway)	189,944	0.520	1.710	1.50	0.780	0.260	1.140	1.006	0.470	1.475	2.00	1.040	0.2600	0.980	0.855	0.399	0.147	1.400
Wholesale 4 (So. River Basin)	2,065,009	5.658	18.540	1.50	8.487	2.829	12.430	10.905	5.119	16.024	2.00	11.316	2.8290	10.660	9.270	4.351	1.599	15.220
Subtotal	11,000,965	30.140	98.780		48.091	17.951	78.870	58.102	32.479	90.582		68.304	20.2130	76.190	49.390	27.606	11.430	88.430
FIRE SERVICE Private Public	81,884 53,721	0.224 0.147	0.740 0.480		2.073 3.110	1.849 2.963	8.120 13.010	0.435 0.282	3.344 5.358	3.779 5.639		6.006 9.010	2.663 3.652	10.040 13.770	0.370 0.240	2.843 4.551	1.506 2.064	4.720 6.850
Total	11,136,571	30.511	100.000		53.274	22.763	100.000	58.820	41.180	100.000		83.320	26.528	100.000	50.000	35.000	15.000	100.000

CUSTOMER CLASS ALLOCATION FACTORS

Based on Water Usage Excluding East Brunswick

	A	Base erage Consum	ntion		Mavim	ım Dav			D	eak Hour			Maighted [Percentage	
Customer Class	Annual	•				Extra				Extra		Average	Maximum	Peak	
	(TG)	MGD	%	Ratio	MGD	MGD	%	Ratio	MGD	MGD	%	0.5	0.35	0.1500	%
METERED SERVICE:															
Residential	3,683,758	10.092	36.540	2.00	20.184	10.092	46.800	3.45	34.817	14.6330	49.510	18.270	16.380	7.430	42.080
Commercial	1,693,092	4.639	16.790	1.40	6.495	1.856	8.610	1.60	7.422	0.9270	3.140	8.400	3.010	0.470	11.880
Industrial	1,315,781	3.605	13.050	1.25	4.506	0.901	4.180	1.30	4.687	0.1810	0.610	6.530	1.460	0.090	8.080
Wholesale 1 (East Brunswick)	0	0.000	0.000	1.50	0.000	0.000	0.000	2.00	0.000	-	0.000	-	-	-	0.000
Wholesale 2 (Edison / Highland Park)	961,380	2.634	9.540	1.50	3.951	1.317	6.110	2.00	5.268	1.3170	4.460	4.770	2.140	0.670	7.580
Wholesale 3 (Rahway)	189,944	0.520	1.880	1.50	0.780	0.260	1.210	2.00	1.040	0.2600	0.880	0.940	0.420	0.130	1.490
Wholesale 4 (So. River Basin)	2,065,009	5.658	20.480	1.50	8.487	2.829	13.120	2.00	11.316	2.8290	9.570	10.240	4.590	1.440	16.270
Subtotal	9,908,964	27.148	98.280		44.403	17.255	80.010		64.550	20.1470	68.170	49.140	28.000	10.230	87.380
FIRE SERVICE	173,313	0.475	1.720		4.785	4.310	19.990		14.191	9.4057	31.830	0.860	7.000	4.770	12.630
Total	10,082,277	27.623	100.000		49.188	21.565	100.000		78.741	29.5527	100.000	50.000	35.000	15.000	100.000

Based on CJO Production Excluding East Brunswick

	Base -	AF 40 Average Cons	umption		Maximu	ım Dav			F 42 Avg -			Peak H	lour			F 52 Avg - Weighted P	Max - Peak ercentage	
Customer Class	Annual (TG)	MGD	AF40 %	Ratio	MGD	Extra MGD	%	Average 0.5882	Maximum 0.4118	AF 42 %	Ratio	MGD	Extra MGD	%	Average 0.5	Maximum 0.35	Peak 0.1500	AF 52 %
METERED SERVICE:	, ,																	
Residential	2,882,287	7.897	33.560	2.00	15.794	7.897	43.530	19.740	17.926	37.670	3.45	27.245	11.4510	56.380	16.780	15.236	8.457	40.473
Commercial	1,324,728	3.629	15.420	1.40	5.081	1.452	8.000	9.070	3.294	12.360	1.60	5.806	0.7250	3.570	7.710	2.800	0.536	11.046
Industrial	1,029,508	2.821	12.000	1.25	3.526	0.705	3.890	7.058	1.602	8.670	1.30	3.667	0.1410	0.690	6.000	1.362	0.104	7.466
Wholesale 1 (East Brunswick)	0	0.000	0.000	1.50	0.000	0.000	0.000	-	-	0.000	2.00	0.000		0.000	-	-	-	0.000
Wholesale 2 (Edison / Highland Park)	961,380	2.634	11.190	1.50	3.951	1.317	7.260	6.582	2.990	9.570	2.00	5.268	1.3170	6.480	5.595	2.541	0.972	9.108
Wholesale 3 (Rahway)	189,944	0.520	2.210	1.50	0.780	0.260	1.430	1.300	0.589	1.890	2.00	1.040	0.2600	1.280	1.105	0.501	0.192	1.798
Wholesale 4 (So. River Basin)	2,065,009	5.658	24.040	1.50	8.487	2.829	15.590	14.140	6.420	20.560	2.00	11.316	2.8290	13.930	12.020	5.457	2.090	19.567
Subtotal	8,452,856	23.159	98.420		37.619	14.460	79.700	57.891	32.821	90.720		54.342	16.7230	82.330	49.210	27.897	12.351	89.458
FIRE SERVICE Private Public	81,884 53,721	0.224 0.147	0.950 0.630		1.622 2.432	1.398 2.285	7.700 12.600	0.559 0.371	3.171 5.189	3.730 5.550		4.779 7.168	1.608 1.979	7.920 9.750	0.475 0.315	2.695 4.408	1.188 1.461	4.358 6.184
Total	8,588,462	23.530	100.000		41.673	18.143	100.000	58.820	41.180	100.000		66.289	20.310	100.000	50.000	35.000	15.000	100.000

CUSTOMER CLASS ALLOCATION FACTORS

Based on Water Usage Excluding East Brunswick, Edison and Highland Park

		Base												F 71	
		rage Consump	tion		Maxim	um Day				Peak Hour	•			Percentage	
Customer Class	Annual	MOD	0,	D.C.	MGD	Extra	۵,	D. C.	1400	Extra	0/	Average	Maximum	Peak	AF 71
	(TG)	MGD	%	Ratio	MGD	MGD	%	Ratio	MGD	MGD	%	0.5	0.35	0.1500	%
METERED SERVICE:															
Residential	3,683,758	10.092	40.390	2.00	20.184	10.092	50.910	3.45	34.817	14.6330	53.200	20.195	17.819	7.980	45.994
Commercial	1,693,092	4.639	18.560	1.40	6.495	1.856	9.360	1.60	7.422	0.9270	3.370	9.280	3.276	0.506	13.062
Industrial	1,315,781	3.605	14.430	1.25	4.506	0.901	4.550	1.30	4.687	0.1810	0.660	7.215	1.593	0.099	8.907
Wholesale 1 (East Brunswick)	0	0.000	0.000	1.50	0.000	0.000	0.000	2.00	0.000	-	0.000	-	-	-	0.000
Wholesale 2 (Edison / Highland Park)	0	0.000	0.000	1.50	0.000	0.000	0.000	2.00	0.000	-	0.000	-	-	-	0.000
Wholesale 3 (Rahway)	189,944	0.520	2.080	1.50	0.780	0.260	1.310	2.00	1.040	0.2600	0.950	1.040	0.459	0.143	1.642
Wholesale 4 (So. River Basin)	2,065,009	5.658	22.640	1.50	8.487	2.829	14.270	2.00	11.316	2.8290	10.290	11.320	4.995	1.544	17.859
Subtotal	8,947,584	24.514	98.100		40.452	15.938	80.400		59.282	18.8300	68.460	49.050	28.142	10.272	87.464
FIRE SERVICE	404.054	0.007	4.450		4 744	4 457	7.050		5.040	0.4004	40.040	0.575	0.570	4 000	5 0 4 0
Private Public	104,654 68,659	0.287 0.188	1.150 0.750		1.744 2.616	1.457 2.428	7.350 12.250		5.213 7.820	3.4694 5.2040	12.610 18.930	0.575 0.375	2.573 4.285	1.892 2.836	5.040 7.496
r ublic	00,009	0.100	0.750		2.010	2.420	12.230		1.020	5.2040	10.930	0.375	4.200	2.030	7.490
Total	9,120,897	24.989	100.000		44.811	19.822	100.000		72.315	27.503	100.000	50.000	35.000	15.000	100.000

Based on CJO Production Excluding East Brunswick, Edison and Highland Park

	Ave	Base rage Consump	ition		Maxim	um Day			F	Peak Hour				F 53 Percentage	
Customer Class	Annual (TG)	MGD	%	Ratio	MGD	Extra MGD	%	Ratio	MGD	Extra MGD	%	Average 0.5	Maximum 0.35	Peak 0.1500	AF 53 %
METERED SERVICE:															
Residential	2,882,287	7.897	37.790	2.00	15.794	7.897	48.150	3.45	27.245	11.4510	49.920	18.895	16.853	7.490	43.240
Commercial	1,324,728	3.629	17.370	1.40	5.081	1.452	8.850	1.60	5.806	0.7250	3.160	8.685	3.098	0.470	12.250
Industrial	1,029,508	2.821	13.500	1.25	3.526	0.705	4.300	1.30	3.667	0.1410	0.610	6.750	1.505	0.090	8.350
Wholesale 1 (East Brunswick)	0	0.000	0.000	1.50	0.000	0.000	0.000	2.00	0.000	-	0.000	-	-	-	0.000
Wholesale 2 (Edison / Highland Park)	0	0.000	0.000	1.50	0.000	0.000	0.000	2.00	0.000	-	0.000	-	-	-	0.000
Wholesale 3 (Rahway)	189,944	0.520	2.490	1.50	0.780	0.260	1.590	2.00	1.040	0.2600	1.130	1.245	0.557	0.170	1.970
Wholesale 4 (So. River Basin)	2,065,009	5.658	27.070	1.50	8.487	2.829	17.250	2.00	11.316	2.8290	12.330	13.535	6.038	1.850	21.420
Subtotal	7,491,476	20.525	98.220		33.668	13.143	80.140		49.074	15.4060	67.170	49.110	28.049	10.070	87.230
FIRE SERVICE Private Public	81,884 53,721	0.224 0.147	1.070 0.710		1.451 2.177	1.227 2.030	7.480 12.380		4.315 6.473	3.088 4.443	13.460 19.370	0.535 0.355	2.618 4.333	2.020 2.910	5.170 7.600
Total	7,627,082	20.896	100.000		37.296	16.400	100.000		59.863	22.937	100.000	50.000	35.000	15.000	100.000

CUSTOMER CLASS ALLOCATION FACTORS

Based on Water Usage - Franchise Customers

		AF 47							F 49 Avg - N			AF	54			AF 51 Avg -	Max - Pea	ak
		Average Consun			Maximu				ghted Perce			Peak	Hour			Weighted F		
Customer Class	Annual		AF 47			Extra			Maximum	AF 49			Extra	AF 54		Maximum	Peak	AF 51
	(TG)	MGD	%	Ratio	MGD	MGD	%	0.5882	0.4118	%	Ratio	MGD	MGD	%	0.5	0.35	0.1500	%
METERED SERVICE:																		
Residential	3,683,758	10.092	53.650	2.00	20.184	10.092	64.140	31.557	26.413	57.970	3.45	34.817	14.6330	59.560	26.825	22.449	8.934	58.208
Commercial	1,693,092	4.639	24.660	1.40	6.495	1.856	11.800	14.505	4.859	19.360	1.60	7.422	0.9270	3.770	12.330	4.130	0.566	17.026
Industrial	1,315,781	3.605	19.160	1.25	4.506	0.901	5.730	11.270	2.360	13.630	1.30	4.687	0.1810	0.740	9.580	2.006	0.111	11.697
Wholesale 1 (East Brunswick)	0	0.000	0.000	1.50	0.000	0.000	0.000	-	-	0.000	2.00	0.000	-	0.000	-	-	-	0.000
Wholesale 2 (Edison / Highland Park)	0	0.000	0.000	1.50	0.000	0.000	0.000	-	-	0.000	2.00	0.000	-	0.000	-	-	-	0.000
Wholesale 3 (Rahway)	0	0.000	0.000	1.50	0.000	0.000	0.000	-	-	0.000	2.00	0.000	-	0.000	-	-	-	0.000
Wholesale 4 (So. River Basin)	0	0.000	0.000	1.50	0.000	0.000	0.000	-	-	0.000	2.00	0.000	-	0.000	-	-	-	0.000
Subtotal	6,692,631	18.336	97.470		31.185	12.849	81.660	57.332	33.628	90.960		46.926	15.7410	64.070	48.735	28.581	9.611	86.931
FIRE SERVICE																		
Private	104,654	0.287	1.530		1.344	1.057	6.720	0.900	2.767	3.670		4.127	3.2265	13.130	0.765	2.352	1.970	5.087
Public	68,659	0.188	1.000	-	2.016	1.828	11.620	0.589	4.785	5.370		6.190	5.6008	22.800	0.500	4.067	3.420	7.982
Total	6,865,944	18.811	100.000		34.546	15.735	100.000	58.821	41.180	100.000		57.242	24.568	100.000	50.000	35.000	15.000	100.000

Based on CJO Production - Franchise Customers

	A	Base	_		Massian	D			Deel	Harri		,	Mainhand D		
Customer Class	Annual	rage Consumption	on		Maximui	n Day Extra			Peak	Extra			Weighted P Maximum	ercentage Peak	l
oustomer oldes	(TG)	MGD	%	Ratio	MGD	MGD	%	Ratio	MGD	MGD	%	0.5	0.35	0.1500	%
METERED SERVICE:															
Residential	2,882,287	7.897	53.650	2.00	15.794	7.897	64.140	3.45	27.245	11.4510	63.160	26.830	22.450	9.470	58.750
Commercial	1,324,728	3.629	24.660	1.40	5.081	1.452	11.790	1.60	5.806	0.7250	4.000	12.330	4.130	0.600	17.060
Industrial	1,029,508	2.821	19.160	1.25	3.526	0.705	5.730	1.30	3.667	0.1410	0.780	9.580	2.010	0.120	11.710
Wholesale 1 (East Brunswick)	0	0.000	0.000	1.50	0.000	0.000	0.000	2.00	0.000	-	0.000	-	-	-	0.000
Wholesale 2 (Edison / Highland Park)	0	0.000	0.000	1.50	0.000	0.000	0.000	2.00	0.000	-	0.000	-	-	-	0.000
Wholesale 3 (Rahway)	0	0.000	0.000	1.50	0.000	0.000	0.000	2.00	0.000	-	0.000	-	-	-	0.000
Wholesale 4 (So. River Basin)	0	0.000	0.000	1.50	0.000	0.000	0.000	2.00	0.000	-	0.000	-	-	-	0.000
Subtotal	5,236,523	14.347	97.480		24.401	10.054	81.660		36.718	12.3170	67.930	48.740	28.590	10.190	87.520
FIRE SERVICE Private Public	81,884 53,721	0.224 0.147	1.520 1.000		1.052 1.578	0.828 1.431	6.720 11.620		3.229 4.843	2.401 3.413	13.240 18.830	0.760 0.500	2.350 4.060	1.990 2.820	5.100 7.380
Total	5,372,129	14.718	100.000		27.031	12.313	100.000		44.790	18.131	100.000	50.000	35.000	15.000	100.000

CUSTOMER CLASS ALLOCATION FACTORS

	Small AF		T&D M				al Plant 57		Pumping S AF		Pumping E	Equipment 60
Customer Class	Annual (TG)	%	Original Cost	%	Original Cost	Factor	Factored Cost	%	Original Cost	%	Original Cost	%
METERED SERVICE:												1
Residential	3,683,758	68.511	148,496,531	50.530	23,934,464	1.08245	25,907,802	48.009	4,778,731	40.990	7,673,005	44.585
Commercial	1,693,092	31.489	42,715,804	14.540	7,022,374	1.08245	7,601,351	14.086	1,396,738	11.980	2,287,698	13.293
Industrial	0	0.000	29,223,472	9.940	4,819,511	1.08245	5,216,868	9.667	957,328	8.210	1,574,870	9.151
Wholesale 1 (East Brunswick)	0	0.000	138,279	0.050	3,343,365	0.75000	2,507,524	4.647	1,378,776	11.830	1,565,306	9.096
Wholesale 2 (Edison / Highland Park)	0	0.000	63,027	0.020	1,264,362	0.75000	948,271	1.757	520,505	4.460	589,226	3.424
Wholesale 3 (Rahway)	0	0.000	3,009,187	1.020	596,861	0.75000	447,646	0.830	102,828	0.880	116,450	0.677
Wholesale 4 (So. River Basin)	0	0.000	32,817,741	11.170	6,594,099	0.75000	4,945,574	9.164	1,173,697	10.070	1,419,369	8.248
Subtotal	5,376,849	100.000	256,464,042	87.270	47,575,036		47,575,036	88.159	10,308,602	88.420	15,225,924	88.473
FIRE SERVICE Private Public	0 0	0.000 0.000	14,849,408 22,544,526	5.050 7.680	2,542,701 3,847,029	1.0000 1.0000	2,542,701 3,847,029	4.712 7.129	537,810 811,223	4.610 6.970	783,481 1,200,300	4.553 6.975
Total	5,376,849	100.000	293,857,976	100.000	53,964,766		53,964,766	100.000	11,657,635	100.000	17,209,705	100.000

		Structures	Treatment E			t Meters	Labor Ex		T&D Ex	
	AF	61	AF 6	62		66	AF 8	5	AF 8	7/88
Customer Class	Original		Original		Original		Original		Original	
	Cost	%	Cost	%	Cost	%	Cost	%	Cost	%
METERED SERVICE:										
Residential	18,489,984	30.030	17,174,250	30.660	-	0.000	5,893,973	47.120	2,555,840	54.250
Commercial	6,010,187	9.760	5,558,610	9.920	-	0.000	1,847,876	14.770	741,561	15.740
Industrial	4,188,377	6.800	3,871,562	6.910	-	0.000	1,254,952	10.030	508,434	10.790
Wholesale 1 (East Brunswick)	11,950,757	19.410	10,625,814	18.970	29,500	12.170	1,005,221	8.040	-	0.000
Wholesale 2 (Edison / Highland Park)	4,508,956	7.320	4,009,062	7.160	39,768	16.410	381,478	3.050	2,151	0.050
Wholesale 3 (Rahway)	891,397	1.450	792,570	1.420	-	0.000	99,239	0.790	24,937	0.530
Wholesale 4 (So. River Basin)	9,697,442	15.750	8,617,616	15.390	173,035	71.420	1,141,549	9.130	271,222	5.760
Subtotal	55,737,099	90.520	50,649,484	90.430	242,303	100.000	11,624,288	92.930	4,104,144	87.120
FIRE SERVICE										
Private	2,341,219	3.800	2,145,813	3.830	-	0.000	347,577	2.780	238,775	5.070
Public	3,497,984	5.680	3,210,858	5.740		0.000	536,747	4.290	368,393	7.810
Total	61,576,302	100.000	56,006,155	100.000	242,303	100.000	12,508,611	100.000	4,711,312	100.000

CUSTOMER CLASS ALLOCATION FACTORS

			Customer			
	Franc	hise Meters and	Services		All Billing an	d Accting
Customer Class	Meter	AF 68	Services	AF 69	Number	AF67
	ERCs	%	ERCs	%	of Bills	%
METERED SERVICE:						
Residential	63,591.5	54.034	60,857.7	81.247	224,748	84.310
Commercial	16,693.4	14.185	7,767.5	10.370	27,264	10.230
Industrial	7,879.7	6.695	1,599.8	2.136	3,192	1.200
Wholesale 1 (East Brunswick)	-	0.000	-	0.000	12	0.000
Wholesale 2 (Edison / Highland Park)	-	0.000	-	0.000	24	0.010
Wholesale 3 (Rahway)	-	0.000	-	0.000	12	0.000
Wholesale 4 (So. River Basin)	-	0.000	-	0.000	36	0.010
Subtotal	88,164.6	74.915	70,225.0	93.753	255,288	95.760
FIRE SERVICE						
Private	29,522.3	25.086	4,679.1	6.247	11,148	4.180
Public	0.0	0.000	0.0	0.000	192	0.060
Total	117,686.9	100.000	74,904.1	100.000	266,628	100.000

Graft Tax									Fire S	Service
AF 63	Total	Residential	Commercial	Industrial	E.B	ED / H.P.	Rahway	SRB	Capacity	Hydrants
Pre-GRAFT Revenue Requirement	102,974,127	49,482,283	13,506,818	8,468,156	5,249,148	2,516,516	758,150	9,562,029	6,076,833	7,354,195
Revenue Excluding East Brunswick	97,724,979 100.00%	49,482,283 50.63%	13,506,818 13.82%	8,468,156 8.67%	0.00%	2,516,516 2.58%	758,150 0.78%	9,562,029 9.78%	6,076,833 6.22%	7,354,195 7.53%

A&G Expense									Fire S	ervice
AF 84	Total	Residential	Commercial	Industrial	E.B	ED / H.P.	Rahway	SRB	Capacity	Hydrants
Base, Extra portion of O&M, Excl A&G	22,244,197	9,488,801	3,381,524	2,472,336	1,538,326	962,197	218,117	2,595,516	659,297	928,083
Less:										
Chemicals - Wells	(1,353,070)	(725,922)	(333,667)	(259,248)	-	-	-	-	(20,702)	(13,531)
Purchased Water - NJWSA	(3,389,671)	(1,137,573)	(522,687)	(406,760)	-	(379,304)	(74,912)	(814,877)	(32,202)	(21,355)
Chemicals - CJO	-	-	-	-	-	-	-	-	-	-
Power - CJO Plant	(1,219,482)	(359,845)	(117,400)	(81,852)	(241,153)	(90,986)	(17,987)	(195,410)	(46,084)	(68,767)
Power - CJO D&R Intake	(351,054)	(103,589)	(33,796)	(23,563)	(69,421)	(26,192)	(5,178)	(56,253)	(13,266)	(19,796)
Purchased Water - E'town	(3,282,392)	(1,910,615)	(558,860)	(383,941)	-	-	-	-	(166,959)	(262,017)
Power - Other	(761,180)	(443,068)	(129,598)	(89,035)	-	-	-	-	(38,717)	(60,761)
Power - CJO Booster	(6,945)	(2,192)	(597)	(402)	(1,304)	(492)	(97)	(1,057)	(328)	(476)
Expense	11,880,403	4,805,997	1,684,919	1,227,535	1,226,448	465,223	119,942	1,527,919	341,039	481,381
Economy of Scales Factor		1.10817	1.10817	1.10817	0.75000	0.75000	0.75000	0.75000	1.00000	1.00000
Factored Expense	11,880,403	5,325,851	1,867,170	1,360,312	919,836	348,917	89,957	1,145,939	341,039	481,381
	100.00%	44.83%	15.72%	11.45%	7.74%	2.94%	0.76%	9.65%	2.87%	4.05%

Customer Class Allocation Factor 37 - Allocated only to Wholesale Customer #1 (East Brunswick).

Customer Class Allocation Factor 39 - Allocated only to Wholesale Customer #4 (South River Basin).

Customer Class Allocation Factor 55 - Allocated based on Base-Extra Capacity portion of O&M Expenses (Schedule 7).

Customer Class Allocation Factor 58 - Allocated based on Base-Extra Capacity portion of Rate Base (Schedule 3).

Customer Class Allocation Factor 70 - Allocated only to Public Fire Protection (Hydrants).

Customer Class Allocation Factor 80 - Allocated based on Base-Extra Capacity portion of Revenue Requirement (Schedule 2).

SUMMARY OF PROJECTED REVENUES Designed Rates Reflect the Customer Cost Allocation Study

	PRESENT <u>RATES</u>	DESIGN <u>RATES</u>	DIFFERENCE	% <u>CHANGE</u>
RESIDENTIAL	\$34,600,942	\$54,681,709	\$20,080,767	58.04%
COMMERCIAL	13,533,722	15,153,367	1,619,644	11.97%
INDUSTRIAL	9,554,924	9,623,899	68,976	0.72%
SUBTOTAL	57,689,588	79,458,975	21,769,387	37.74%
PRIVATE FIRE SERVICE	6,223,017	6,543,354	320,337	5.15%
PUBLIC FIRE SERVICE	4,968,849	8,036,093	3,067,244	61.73%
SUBTOTAL	11,191,867	14,579,447	3,387,581	30.27%
EDISON / HIGHLAND PARK	2,259,243	2,867,902	608,659	26.94%
EAST BRUNSWICK	3,947,352	5,238,696	1,291,344	32.71%
OLD BRIDGE MUA	2,795,372	4,276,223	1,480,851	52.98%
MARLBORO TOWNSHIP	4,134,229	6,604,838	2,470,609	59.76%
RAHWAY	583,571	872,955	289,384	49.59%
SUBTOTAL	13,719,767	19,860,613	6,140,847	44.76%
SALES REVENUE	82,601,221	113,899,036	31,297,815	37.89%
MISCELLANEOUS BAYVIEW ROUNDING	123,233 104,003 1	123,233 104,003 2	0 0 1	
GRAND TOTAL	82,828,458	114,126,274	31,297,816	37.79%

MIDDLESEX WATER COMPANY Designed Rates Reflect the Customer Cost Allocation Study

				EXISTING			DESIGN		INCREASE
	MONTHLY	QTRLY	MONTHLY	QTRLY	_	MONTHLY	QTRLY		
RESIDENTIAL	BILLS	BILLS	RATE	RATE	REVENUE	RATE	RATE	REVENUE	
5/8"		185,952		\$ 47.25	\$ 8,786,232		\$ 61.29	\$ 11,396,500	29.71%
3/4"		31,892		70.89	2,260,824		91.95	2,932,483	29.71%
1"		5,904		118.14	697,499		153.24	904,716	29.71%
1 1/2" 2"		728 272		236.25 378.00	171,990 102,816		306.44 490.30	223,086 133,361	29.71% 29.71%
2		212		370.00	12,019,360		430.30	15,590,146	23.7 170
USAGE (CCF)		492,480,957		0.0458527	22,581,582		0.079376801	39,091,563	73.11%
,		,,			\$34,600,942			\$ 54,681,709	58.04%
				EXISTING			DESIGN		
COMMEDIAL	MONTHLY	QTRLY	MONTHLY	QTRLY	DEVENUE	MONTHLY	QTRLY	DEV/ENUE	
COMMERCIAL 5/8"	BILLS 3,192	BILLS	RATE \$ 15.75	RATE	REVENUE \$ 50,274	RATE \$ 13.33	RATE	REVENUE \$ 42,556	-15.35%
3/4"	2,124		23.63		50,190	20.00		42,485	-15.35%
1"	2,892		39.38		113,887	33.33		96,403	-15.35%
1 1/2"	3,888		78.75		306,180	66.66		259,174	-15.35%
2"	11,496		126.00		1,448,496	106.66		1,226,119	-15.35%
3"	2,796		236.25		660,555	199.98		559,145	-15.35%
4" 6"	672		393.75		264,600	333.30		223,978	-15.35%
8"	48 108		787.50 1,260.00		37,800 136,080	666.60 1,066.56		31,997 115,189	-15.35% -15.35%
10"	48		1,811.25		86,940	1,533.18		73,593	-15.35%
.0	.0		1,011.20		3,155,002	1,000.10		2,670,638	10.0070
USAGE (CCF)		226,349,166		0.0458527	10,378,720		0.055148111	12,482,729	20.27%
					\$13,533,722			\$ 15,153,367	11.97%
		0==:::	Morrison	EXISTING			DESIGN		
INDLICTORAL	MONTHLY	QTRLY	MONTHLY	QTRLY	DEVENUE	MONTHLY	QTRLY	DEVENUE	
INDUSTRIAL 5/8"	BILLS 0	BILLS	RATE \$ 15.75	RATE	REVENUE \$ -	RATE \$ 9.18	RATE	REVENUE \$ -	
5/8 3/4"	24		\$ 15.75 23.63		» - 567	\$ 9.18 13.77		331	-41.71%
1"	96		39.38		3,780	22.96		2,204	-41.71%
1 1/2"	264		78.75		20,790	45.90		12,119	-41.71%
2"	444		126.00		55,944	73.45		32,611	-41.71%
3"	468		236.25		110,565	137.71		64,450	-41.71%
4"	960		393.75		378,000	229.52		220,342	-41.71%
6" 8"	648 204		787.50		510,300	459.05		297,461	-41.71%
0 10"	84		1,260.00 1,811.25		257,040 152,145	734.47 1,055.80		149,832 88,688	-41.71% -41.71%
10	04		1,011.20		1,489,132	1,000.00		868,037	41.7170
USAGE (CCF)		175,906,590		0.0458527	8,065,792		0.049775637	8,755,863	8.56%
,		-,,			\$ 9,554,924			\$ 9,623,899	0.72%
GENERAL METERE	ED SERVICE REV	ENUE			\$57,689,588			\$ 79,458,975	
				EVICTINO			DEGION		
PRIVATE FIRE	MONTHLY	QTRLY	MONTHLY	EXISTING QTRLY		MONTHLY	DESIGN QTRLY		
WITH HOSE	BILLS	BILLS	RATE	RATE	REVENUE	RATE	RATE	REVENUE	
1"	DILLO	5.225	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
2"	12	8	75.25	225.75	2,709	41.95	125.84	1,510	-44.25%
3"	0	0	165.52	496.56	0	92.27	276.81	0	
4"	120	32	276.31	828.93	59,683	154.03	462.09	33,270	-44.25%
6"	960	4	565.43	1,696.29	549,598	315.20	945.60	306,375	-44.25%
8" 10"	1,476 504	0	809.59 1,298.61	2,428.77 3,895.83	1,194,955 654,499	451.31 723.91	1,353.92 2,171.74	666,131 364,852	-44.25% -44.25%
10	304	U	1,290.01	3,093.03	2,461,444	723.91	2,171.74	1,372,138	-44.2370
PRIVATE FIRE	MONTHLY	QTRLY	MONTHLY	QTRLY	2,401,444	MONTHLY	QTRLY	1,012,100	
WITHOUT HOSE	BILLS	BILLS							
1"	12		RATE	RATE	REVENUE	RATE	RATE	REVENUE	
2"		44	\$ 25.10		REVENUE \$ 3,614	\$ 13.99	RATE \$ 41.98	REVENUE \$ 2,015	-44.25%
	324	44 92	\$ 25.10 62.07	RATE \$ 75.30 186.21	\$ 3,614 37,242	\$ 13.99 34.60	\$ 41.98 103.80	\$ 2,015 20,761	-44.25%
3"	396	44 92 28	\$ 25.10 62.07 124.29	RATE \$ 75.30 186.21 372.87	\$ 3,614 37,242 59,659	\$ 13.99 34.60 69.29	\$ 41.98 103.80 207.86	\$ 2,015 20,761 33,257	-44.25% -44.25%
4"	396 2,724	44 92 28 156	\$ 25.10 62.07 124.29 206.23	RATE \$ 75.30 186.21 372.87 618.69	\$ 3,614 37,242 59,659 658,286	\$ 13.99 34.60 69.29 114.96	\$ 41.98 103.80 207.86 344.89	\$ 2,015 20,761 33,257 366,963	-44.25% -44.25% -44.25%
4" 6"	396 2,724 2,148	44 92 28 156 192	\$ 25.10 62.07 124.29 206.23 419.14	RATE \$ 75.30 186.21 372.87 618.69 1,257.42	\$ 3,614 37,242 59,659 658,286 1,141,737	\$ 13.99 34.60 69.29 114.96 233.65	\$ 41.98 103.80 207.86 344.89 700.95	\$ 2,015 20,761 33,257 366,963 636,464	-44.25% -44.25% -44.25% -44.25%
4"	396 2,724	44 92 28 156	\$ 25.10 62.07 124.29 206.23	RATE \$ 75.30 186.21 372.87 618.69 1,257.42 1,797.81	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304	\$ 13.99 34.60 69.29 114.96	\$ 41.98 103.80 207.86 344.89	\$ 2,015 20,761 33,257 366,963	-44.25% -44.25% -44.25%
4" 6" 8"	396 2,724 2,148 1,752	44 92 28 156 192 8	\$ 25.10 62.07 124.29 206.23 419.14 599.27	RATE \$ 75.30 186.21 372.87 618.69 1,257.42	\$ 3,614 37,242 59,659 658,286 1,141,737	\$ 13.99 34.60 69.29 114.96 233.65 334.06	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19	\$ 2,015 20,761 33,257 366,963 636,464 593,299	-44.25% -44.25% -44.25% -44.25% -44.25%
4" 6" 8" 10"	396 2,724 2,148 1,752 144	44 92 28 156 192 8 0	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59	\$ 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25%
4" 6" 8" 10" 12"	396 2,724 2,148 1,752 144	44 92 28 156 192 8 0	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59	RATE 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25%
4" 6" 8" 10"	396 2,724 2,148 1,752 144	44 92 28 156 192 8 0	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59	\$ 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25%
4" 6" 8" 10" 12"	396 2,724 2,148 1,752 144	44 92 28 156 192 8 0	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59	RATE 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25%
4" 6" 8" 10" 12" USAGE (CCF)	396 2,724 2,148 1,752 144 12	44 92 28 156 192 8 0 0	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20	RATE 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60 0.0458527	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25%
4" 6" 8" 10" 12"	396 2,724 2,148 1,752 144 12	44 92 28 156 192 8 0 0	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20	RATE \$ 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25%
4" 6" 8" 10" 12" USAGE (CCF)	396 2,724 2,148 1,752 144 12	44 92 28 156 192 8 0 0	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20	RATE 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60 0.0458527	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25%
4" 6" 8" 10" 12" USAGE (CCF)	396 2,724 2,148 1,752 144 12	44 92 28 156 192 8 0 0	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20	RATE \$ 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25%
4" 6" 8" 10" 12" USAGE (CCF)	396 2,724 2,148 1,752 144 12	44 92 28 156 192 8 0 0	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20	RATE \$ 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25%
4" 6" 8" 10" 12" USAGE (CCF)	396 2,724 2,148 1,752 144 12	44 92 28 156 192 8 0 0	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560	RATE 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG \$ 742.10	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25%
4" 6" 8" 10" 12" USAGE (CCF)	396 2,724 2,148 1,752 144 12 INCH FEET 35,141,067	44 92 28 156 192 8 0 0 13,991,133 HYDRANTS 4,775	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560	RATE \$ 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG \$ 742.10 TRANSMISSION	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017 REVENUE \$ 4,968,849	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58 RATE \$0.040560	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE \$ 8,036,093	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -43.96%
4" 6" 8" 10" 12" USAGE (CCF)	396 2,724 2,148 1,752 144 12	44 92 28 156 192 8 0 0 13,991,133 HYDRANTS 4,775	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560	RATE \$ 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG \$ 742.10 TRANSMISSION	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017 REVENUE \$ 4,968,849	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58 RATE \$0.040560	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE \$ 8,036,093	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25%
4" 6" 8" 10" 12" USAGE (CCF)	396 2,724 2,148 1,752 144 12 INCH FEET 35,141,067	44 92 28 156 192 8 0 0 13,991,133 HYDRANTS 4,775	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560	RATE \$ 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG \$ 742.10 TRANSMISSION	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017 REVENUE \$ 4,968,849	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58 RATE \$0.040560	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE \$ 8,036,093	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -43.96%
4" 6" 8" 10" 12* USAGE (CCF) PUBLIC FIRE	396 2,724 2,148 1,752 144 12 INCH FEET 35,141,067	44 92 28 156 192 8 0 0 13,991,133 HYDRANTS 4,775 USAGE (MG) 2,548.109	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560 BASE RATE \$1,549.13	RATE \$ 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG \$ 742.10 TRANSMISSION	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017 REVENUE \$ 4,968,849 REVENUE \$ 3,947,351	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58 RATE \$0.040560 BASE RATE \$ 2,055.92	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE \$ 8,036,093	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -32.71%
4" 6" 8" 10" 12" USAGE (CCF) PUBLIC FIRE WHOLESALE 1 WHOLESALE 2 WHOLESALE 3	396 2,724 2,148 1,752 144 12 INCH FEET 35,141,067	44 92 28 156 192 8 0 0 13,991,133 HYDRANTS 4,775 USAGE (MG) 2,548.109 961.380 189.944	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560 BASE RATE \$ 1,549.13 \$ 2,350.00 \$ 2,350.00	RATE \$ 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG 742.10 TRANSMISSION RATE \$ 722.33	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017 REVENUE \$ 4,968,849 REVENUE \$ 3,947,351 \$ 2,259,243	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58 RATE \$0.040560 BASE RATE \$ 2,055.92 \$ 2,983.11	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45 TRANSMISSION RATE	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE \$ 8,036,093 REVENUE \$ 5,238,696 \$ 2,867,902	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -43.96% -41.25% -42.25% -43.96%
4" 6" 8" 10" 12" USAGE (CCF) PUBLIC FIRE WHOLESALE 1 WHOLESALE 2	396 2,724 2,148 1,752 144 12 INCH FEET 35,141,067 E.Brunswick Edison/Hld Pk Rahway	44 92 28 156 192 8 0 0 13,991,133 HYDRANTS 4,775 USAGE (MG) 2,548.109 961.380 189.944 880.987	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560 BASE RATE \$ 1,549.13 \$ 2,350.00 \$ 2,350.00	RATE \$ 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG \$ 742.10 TRANSMISSION RATE	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017 REVENUE \$ 4,968,849 REVENUE \$ 3,947,351 \$ 2,259,243 \$ 583,572 \$ 2,795,372	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58 RATE \$0.040560 BASE RATE \$ 2,055.92 \$ 2,983.11 \$ 2,983.11	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45 TRANSMISSION RATE	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE \$ 8,036,093 REVENUE \$ 5,238,696 \$ 2,867,902 \$ 872,955 \$ 4,276,223	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -32.71% -44.25% -45.25
4" 6" 8" 10" 12" USAGE (CCF) PUBLIC FIRE WHOLESALE 1 WHOLESALE 2 WHOLESALE 3	396 2,724 2,148 1,752 144 12 INCH FEET 35,141,067 E.Brunswick Edison/Hld Pk Rahway Old Bridge Marlboro	44 92 28 156 192 8 0 0 13,991,133 HYDRANTS 4,775 USAGE (MG) 2,548.109 961.380 189.944 880.987 1,184.022	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560 BASE RATE \$ 1,549.13 \$ 2,350.00 \$ 2,350.00	RATE \$ 75.30 16.6.21 372.87 618.69 1.257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG \$ 742.10 TRANSMISSION RATE \$ 722.33 \$ 823.00	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017 REVENUE \$ 4,968,849 REVENUE \$ 3,947,351 \$ 2,259,243 \$ 583,572 \$ 2,795,372 \$ 2,782,451	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58 RATE \$0.040560 BASE RATE \$ 2,055.92 \$ 2,983.11	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45 TRANSMISSION RATE \$ 1,612.73 \$ 1,870.79	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE \$ 8,036,093 REVENUE \$ 5,238,696 \$ 2,867,902 \$ 872,955 \$ 4,276,223 \$ 3,532,067	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -32.71% -44.25% -45.25
4" 6" 8" 10" 12" USAGE (CCF) PUBLIC FIRE WHOLESALE 1 WHOLESALE 2 WHOLESALE 3	396 2,724 2,148 1,752 144 12 INCH FEET 35,141,067 E.Brunswick Edison/Hld Pk Rahway	44 92 28 156 192 8 0 0 13,991,133 HYDRANTS 4,775 USAGE (MG) 2,548.109 961.380 189.944 880.987 1,184.022 1,642.500	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560 BASE RATE \$ 1,549.13 \$ 2,350.00 \$ 2,350.00	RATE \$ 75.30 186.21 372.87 618.69 1,257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG 742.10 TRANSMISSION RATE \$ 722.33	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017 REVENUE \$ 4,968,849 REVENUE \$ 3,947,351 \$ 2,259,243 \$ 583,572 \$ 2,795,372 \$ 2,795,372 \$ 2,782,451 \$ 1,351,778	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58 RATE \$0.040560 BASE RATE \$ 2,055.92 \$ 2,983.11 \$ 2,983.11	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45 TRANSMISSION RATE	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE \$ 8,036,093 REVENUE \$ 5,238,696 \$ 2,867,902 \$ 872,955 \$ 4,276,223 \$ 3,532,067 \$ 3,072,772	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -43.96% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -42.25% -43.96%
4" 6" 8" 10" 12" USAGE (CCF) PUBLIC FIRE WHOLESALE 1 WHOLESALE 2 WHOLESALE 3	396 2,724 2,148 1,752 144 12 INCH FEET 35,141,067 E.Brunswick Edison/Hld Pk Rahway Old Bridge Marlboro	44 92 28 156 192 8 0 0 13,991,133 HYDRANTS 4,775 USAGE (MG) 2,548.109 961.380 189.944 880.987 1,184.022	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560 BASE RATE \$ 1,549.13 \$ 2,350.00 \$ 2,350.00	RATE \$ 75.30 16.6.21 372.87 618.69 1.257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG \$ 742.10 TRANSMISSION RATE \$ 722.33 \$ 823.00	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017 REVENUE \$ 4,968,849 REVENUE \$ 3,947,351 \$ 2,259,243 \$ 583,572 \$ 2,795,372 \$ 2,782,451	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58 RATE \$0.040560 BASE RATE \$ 2,055.92 \$ 2,983.11 \$ 2,983.11	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45 TRANSMISSION RATE \$ 1,612.73 \$ 1,870.79	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE \$ 8,036,093 REVENUE \$ 5,238,696 \$ 2,867,902 \$ 872,955 \$ 4,276,223 \$ 3,532,067	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -32.71% -44.25% -45.25
4" 6" 8" 10" 12" USAGE (CCF) PUBLIC FIRE WHOLESALE 1 WHOLESALE 2 WHOLESALE 3	396 2,724 2,148 1,752 144 12 INCH FEET 35,141,067 E.Brunswick Edison/Hld Pk Rahway Old Bridge Marlboro	44 92 28 156 192 8 0 0 13,991,133 HYDRANTS 4,775 USAGE (MG) 2,548.109 961.380 189.944 880.987 1,184.022 1,642.500	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560 BASE RATE \$ 1,549.13 \$ 2,350.00 \$ 2,350.00	RATE \$ 75.30 16.6.21 372.87 618.69 1.257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG \$ 742.10 TRANSMISSION RATE \$ 722.33 \$ 823.00	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017 REVENUE \$ 4,968,849 REVENUE \$ 3,947,351 \$ 2,259,243 \$ 583,572 \$ 2,795,372 \$ 2,782,451 \$ 1,351,778 \$ 13,719,767	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58 RATE \$0.040560 BASE RATE \$ 2,055.92 \$ 2,983.11 \$ 2,983.11	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45 TRANSMISSION RATE \$ 1,612.73 \$ 1,870.79	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE \$ 8,036,093 REVENUE \$ 5,238,696 \$ 2,867,902 \$ 872,955 \$ 4,276,223 \$ 3,532,067 \$ 3,072,772 \$ 19,860,613	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -43.96% -41.25% -42.25% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96%
4" 6" 8" 10" 12" USAGE (CCF) PUBLIC FIRE WHOLESALE 1 WHOLESALE 2 WHOLESALE 3	396 2,724 2,148 1,752 144 12 INCH FEET 35,141,067 E.Brunswick Edison/Hld Pk Rahway Old Bridge Marlboro	44 92 28 156 192 8 0 0 13,991,133 HYDRANTS 4,775 USAGE (MG) 2,548.109 961.380 189.944 880.987 1,184.022 1,642.500	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560 BASE RATE \$ 1,549.13 \$ 2,350.00 \$ 2,350.00	RATE \$ 75.30 16.6.21 372.87 618.69 1.257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG \$ 742.10 TRANSMISSION RATE \$ 722.33 \$ 823.00	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017 REVENUE \$ 4,968,849 REVENUE \$ 3,947,351 \$ 2,259,243 \$ 583,572 \$ 2,782,451 \$ 1,351,778 \$13,719,767 \$82,601,221	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58 RATE \$0.040560 BASE RATE \$ 2,055.92 \$ 2,983.11 \$ 2,983.11	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45 TRANSMISSION RATE \$ 1,612.73 \$ 1,870.79	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE \$ 8,036,093 REVENUE \$ 5,238,696 \$ 2,867,902 \$ 872,955 \$ 4,276,223 \$ 3,532,067 \$ 3,072,772 \$ 19,860,613 \$ 113,899,036	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -43.96% -41.25% -42.25% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96%
4" 6" 8" 10" 12* USAGE (CCF) PUBLIC FIRE WHOLESALE 1 WHOLESALE 2 WHOLESALE 3 WHOLESALE 4	396 2,724 2,148 1,752 144 12 INCH FEET 35,141,067 E.Brunswick Edison/Hld Pk Rahway Old Bridge Marlboro	44 92 28 156 192 8 0 0 13,991,133 HYDRANTS 4,775 USAGE (MG) 2,548.109 961.380 189.944 880.987 1,184.022 1,642.500	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560 BASE RATE \$ 1,549.13 \$ 2,350.00 \$ 2,350.00	RATE \$ 75.30 16.6.21 372.87 618.69 1.257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG \$ 742.10 TRANSMISSION RATE \$ 722.33 \$ 823.00	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017 REVENUE \$ 4,968,849 REVENUE \$ 3,947,351 \$ 2,259,243 \$ 583,572 \$ 2,795,372 \$ 2,782,451 \$ 1,351,778 \$ 13,719,767	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58 RATE \$0.040560 BASE RATE \$ 2,055.92 \$ 2,983.11 \$ 2,983.11	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45 TRANSMISSION RATE \$ 1,612.73 \$ 1,870.79	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE \$ 8,036,093 REVENUE \$ 5,238,696 \$ 2,867,902 \$ 872,955 \$ 4,276,223 \$ 3,532,067 \$ 3,072,772 \$ 19,860,613	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -43.96% -41.25% -42.25% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96%
4" 6" 8" 10" 12" USAGE (CCF) PUBLIC FIRE WHOLESALE 1 WHOLESALE 2 WHOLESALE 3 WHOLESALE 4	396 2,724 2,148 1,752 144 12 INCH FEET 35,141,067 E.Brunswick Edison/Hld Pk Rahway Old Bridge Marlboro	44 92 28 156 192 8 0 0 13,991,133 HYDRANTS 4,775 USAGE (MG) 2,548.109 961.380 189.944 880.987 1,184.022 1,642.500	\$ 25.10 62.07 124.29 206.23 419.14 599.27 959.59 1,418.20 RATE \$0.040560 BASE RATE \$ 1,549.13 \$ 2,350.00 \$ 2,350.00	RATE \$ 75.30 16.6.21 372.87 618.69 1.257.42 1,797.81 2,878.77 4,254.60 0.0458527 HYD. CHG \$ 742.10 TRANSMISSION RATE \$ 722.33 \$ 823.00	\$ 3,614 37,242 59,659 658,286 1,141,737 1,064,304 138,181 17,018 3,120,042 5,581,486 641,531 \$ 6,223,017 REVENUE \$ 4,968,849 REVENUE \$ 3,947,351 \$ 2,259,243 \$ 583,572 \$ 2,795,372 \$ 2,782,451 \$ 1,351,778 \$ 13,719,767	\$ 13.99 34.60 69.29 114.96 233.65 334.06 534.93 790.58 RATE \$0.040560 BASE RATE \$ 2,055.92 \$ 2,983.11 \$ 2,983.11	\$ 41.98 103.80 207.86 344.89 700.95 1,002.19 1,604.78 2,371.74 0.245294001 HYD. CHG \$ 1,384.45 TRANSMISSION RATE \$ 1,612.73 \$ 1,870.79	\$ 2,015 20,761 33,257 366,963 636,464 593,299 77,029 9,487 1,739,275 3,111,413 3,431,941 \$ 6,543,354 REVENUE \$ 8,036,093 REVENUE \$ 5,238,696 \$ 2,867,902 \$ 872,955 \$ 4,276,223 \$ 3,532,067 \$ 3,072,772 \$ 19,860,613	-44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -44.25% -43.96% -41.25% -42.25% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96% -43.96%

SUMMARY OF PROJECTED REVENUES

Uniform Rates to General Metered Service Customers / Reallocation of Fire Service and No Revenue Reductions

	PRESENT RATES	PROPOSED <u>RATES</u>	DIFFERENCE	% <u>CHANGE</u>
RESIDENTIAL	\$34,600,942	\$49,728,865	\$15,127,923	43.72%
COMMERCIAL	13,533,722	19,330,274	5,796,552	42.83%
INDUSTRIAL	9,554,924	13,588,811	4,033,888	42.22%
SUBTOTAL	57,689,588	82,647,951	24,958,362	43.26%
PRIVATE FIRE SERVICE	6,223,017	6,223,017	0	0.00%
PUBLIC FIRE SERVICE	4,968,849	5,167,585	198,736	4.00%
SUBTOTAL	11,191,867	11,390,602	198,736	1.78%
EDISON / HIGHLAND PARK	2,259,243	2,867,902	608,659	26.94%
EAST BRUNSWICK	3,947,352	5,238,696	1,291,344	32.71%
OLD BRIDGE MUA	2,795,372	4,276,222	1,480,850	52.98%
MARLBORO TOWNSHIP	4,134,229	6,604,839	2,470,610	59.76%
RAHWAY	583,571	872,953	289,382	49.59%
SUBTOTAL	13,719,767	19,860,612	6,140,846	44.76%
SALES REVENUE	82,601,221	113,899,165	31,297,944	37.89%
MISCELLANEOUS BAYVIEW ROUNDING	123,233 104,003 1	123,233 104,003 (127)	0 0 (128)	
GRAND TOTAL	\$ 82,828,458	\$ 114,126,274	\$ 31,297,816	37.79%

MIDDLESEX WATER COMPANY Across-the-Board to General Metered Service Customers / Reallocation of Fire Service and No Revenue Reductions

	,	acioss-the-board to Ge	sneral Wetered	Jeivi		Treamocation of the	re Service and IV	O IXEV		13	PERCENTAGE
	MONTHLY	QTRLY	MONTHLY		EXISTING QTRLY		MONTHLY		PROPOSED QTRLY		INCREASE
RESIDENTIAL	BILLS	BILLS	RATE		RATE	REVENUE	RATE		RATE	REVENUE	
5/8"	DILLO	185,952	TOTTE	\$	47.25	\$ 8,786,232	10112		64.95	\$ 12,077,582	37.46%
3/4"		31,892			70.89	2,260,824			97.45	3,107,875	37.47%
1"		5,904			118.14	697,499			162.39	958,751	37.46%
1 1/2"		728			236.25	171,990			324.75	236,418	37.46%
2"		272			378.00	102,816			519.60	141,331	37.46%
LICACE (CCE)		402 490 057			0.0450507	12,019,360 22,581,582			0.0674070	16,521,958 33,206,907	47.0E0/
USAGE (CCF)		492,480,957			0.0458527	\$34,600,942			0.0674278	\$ 49,728,865	47.05%
						ψ04,000,042				Ψ 45,725,000	
					EXISTING				PROPOSED		
	MONTHLY	QTRLY	MONTHLY		QTRLY		MONTHLY		QTRLY		
COMMERCIAL	BILLS	BILLS	RATE		RATE	REVENUE	RATE		RATE	REVENUE	
5/8" 3/4"	3,192 2,124		\$ 15.75 23.63			\$ 50,274 50,190	\$ 21.65 32.48			\$ 69,107 68,988	37.46% 37.45%
1"	2,892		39.38			113,887	54.13			156,544	37.46%
1 1/2"	3,888		78.75			306,180	108.25			420,876	37.46%
2"	11,496		126.00			1,448,496	173.20			1,991,107	37.46%
3"	2,796		236.25			660,555	271.20			758,275	14.79%
4"	672		393.75			264,600	452.00			303,744	14.79%
6"	48		787.50			37,800	904.01			43,392	14.79%
8" 10"	108 48		1,260.00 1,811.25			136,080 86,940	1,446.41 2,079.22			156,212 99,803	14.79% 14.79%
10	40		1,011.23			3,155,002	2,073.22			4,068,048	14.7370
USAGE (CCF)		226,349,166			0.0458527	10,378,720			0.0674278	15,262,226	47.05%
						\$13,533,722				\$ 19,330,274	
	MONTHLY	OTDLY	MONTHLY		EXISTING		MONTHLY		PROPOSED		
INDUSTRIAL	MONTHLY BILLS	QTRLY BILLS	MONTHLY RATE		QTRLY RATE	REVENUE	MONTHLY RATE		QTRLY RATE	REVENUE	
5/8"	BILLS 0	DILLO	\$15.75		NAIE	S -	\$ 21.65		NATE	\$ -	
3/4"	24		23.63			567	32.48			780	37.45%
1"	96		39.38			3,780	54.13			5,196	37.46%
1 1/2"	264		78.75			20,790	108.25			28,578	37.46%
2"	444		126.00			55,944	173.20			76,901	37.46%
3" 4"	468		236.25			110,565	271.20			126,922	14.79%
4 6"	960 648		393.75 787.50			378,000 510,300	452.00 904.01			433,920 585,798	14.79% 14.79%
8"	204		1,260.00			257,040	1,446.41			295,068	14.79%
10"	84		1,811.25			152,145	2,079.22			174,654	14.79%
						1,489,132				1,727,817	
USAGE (CCF)		175,906,590			0.0458527	8,065,792			0.0674278	11,860,994	47.05%
						\$ 9,554,924				\$ 13,588,811	
GENERAL METER	ED SERVICE REV	ENITE				\$57,689,588				\$ 82,647,951	43.26%
OLINEIVAL MILTER	LD OLIVIOL ILV	LINOL				\$37,003,300				ψ 02,041,331	43.2076
					EXISTING				PROPOSED		
PRIVATE FIRE	MONTHLY	QTRLY	MONTHLY		QTRLY		MONTHLY		QTRLY		
WITH HOSE	BILLS	BILLS	RATE		RATE	REVENUE	RATE	_	RATE	REVENUE	
1" 2"	10	0	\$ -	\$	-	\$ -	\$ - 71.10	\$	- 212.54	\$ -	E 410/
2 3"	12 0	8	75.25 165.52		225.75 496.56	2,709 0	71.18 156.57		213.54 469.70	2,562 0	-5.41%
4"	120	32	276.31		828.93	59,683	261.37		784.10	56,455	-5.41%
6"	960	4	565.43		1,696.29	549,598	534.85		1,604.55	519,874	-5.41%
8"	1,476	0	809.59		2,428.77	1,194,955	765.81		2,297.42	1,130,329	-5.41%
10"	504	0	1,298.61		3,895.83	654,499	1,228.38		3,685.13	619,103	-5.41%
PRIVATE FIRE	MONTHLY	QTRLY	MONTHLY		QTRLY	2,461,444	MONTHLY		QTRLY	2,328,323	
WITHOUT HOSE	BILLS	BILLS	RATE		RATE	REVENUE	RATE		RATE	REVENUE	
1"	12	44	\$ 25.10	\$	75.30	\$ 3,614	\$ 23.74	\$	71.23	\$ 3,419	-5.41%
2"	324	92	62.07		186.21	37,242	58.71		176.14	35,228	-5.41%
3"	396	28	124.29		372.87	59,659	117.57		352.70	56,433	-5.41%
4"	2,724	156	206.23		618.69	658,286	195.08		585.23	622,684	-5.41%
6" 8"	2,148 1,752	192 8	419.14 599.27		1,257.42 1,797.81	1,141,737 1,064,304	396.47 566.86		1,189.42 1,700.58	1,079,989 1,006,743	-5.41% -5.41%
10"	144	0	959.59		2,878.77	138,181	907.69		2,723.08	130,708	-5.41%
12"	12	0	1,418.20		4,254.60	17,018	1,341.50		4,024.50	16,098	-5.41%
						3,120,042				2,951,303	
						5,581,486				5,279,626	-5.41%
USAGE (CCF)		13,991,133			0.0458527	641,531			0.0674278	943,391	47.05%
						\$ 6,223,017				\$ 6,223,017	0.00%
PUBLIC FIRE	INCH FEET	HYDRANTS	RATE		HYD. CHG	REVENUE	RATE		HYD. CHG	REVENUE	
1 ODEIO 1 IIVE	35,141,067	4,775	\$0.040560	\$	742.10	\$ 4,968,849	\$0.040560	\$	783.72	\$ 5,167,585	4.00%
			BASE	TR	ANSMISSION		BASE	TR	ANSMISSION		
		USAGE (MG)	RATE		RATE	REVENUE	RATE		RATE	REVENUE	
WHOLESALE 1	E.Brunswick	2,548.109	\$ 1,549.13			\$ 3,947,352	\$ 2,055.92			\$ 5,238,696	32.71%
WHOLEONEL 1	L.DI GITSWICK	2,040.100	ψ 1,040.10			Ψ 0,047,002	Ψ 2,000.02			Ψ 0,200,000	02.7 170
WHOLESALE 2	Edison/Hld Pk	961.380	\$ 2,350.00			\$ 2,259,243	\$ 2,983.11			\$ 2,867,902	26.94%
								_			
WHOLESALE 3	Rahway	189.944	\$ 2,350.00	\$	722.33	\$ 583,571	\$ 2,983.11	\$	1,612.73	\$ 872,953	49.59%
WHOLESALE 4	Old Bridge	880.987	\$ 2,350.00	\$	823.00	\$ 2,795,372	\$ 2,983.11	\$	1,870.79	\$ 4,276,222	52.98%
VIIIOLLOALE 4	Marlboro	1,184.022	\$ 2,350.00	φ	023.00	\$ 2,782,452	\$ 2,983.11	φ	1,070.79	\$ 3,532,068	26.94%
	Marlboro	1,642.500	÷ =,500.00	\$	823.00	\$ 1,351,778	÷ =,500	\$	1,870.79	\$ 3,072,772	127.31%
		7,406.942				\$13,719,767				\$ 19,860,612	59.76%
MISCELLANICOLIO						\$82,601,221				\$ 113,899,165	
MISCELLANEOUS BAYVIEW						123,233 104,003				123,233 104,003	
ROUNDING						104,003				(127)	
-						\$82,828,458				\$ 114,126,274	37.79%

MIDDLESEX WATER COMPANY Wholesale Rate Design

			EXISTING	RATI	E STRUCTURE					
		DEMAND USAGE (MG)	BASE RATE	1	BASE REVENUE	TRANSMISSION RATE		ANSMISSION REVENUE		HOLESALE REVENUE
WHOLESALE 1	E.Brunswick	2,548.109	\$1,549.13	\$	3,947,352		\$	-	\$	3,947,352
WHOLESALE 2	Edison/Hld Pk	961.380	\$2,350.00	\$	2,259,243		\$	-	\$	2,259,243
WHOLESALE 3	Rahway	189.944	\$2,350.00	\$	446,368	\$722.33	\$	137,202	\$	583,571
WHOLESALE 4	Old Bridge Marlboro Marlboro	880.987 1,184.022 1,642.500 7,406.942	\$2,350.00 \$2,350.00	\$ \$	2,070,319 2,782,452 11,505,735 83.862%	\$823.00 \$823.00	\$ \$ \$	725,052 - 1,351,778 2,214,032 16.138%	\$ \$ \$	2,795,372 2,782,452 1,351,778 13,719,767
	Factor	Factored Demand			Rate / MG					
Rahway	1.00000	189.944		\$	722.33					
Old Bridge	1.13937	1,003.769		\$	823.00					
Marlboro	1.13937	1,871.413		\$	823.00					
		3,065.125		\$ \$	2,214,032 722.33	Transmission Rev Rate / MG	enue			
			R	ATE D	ESIGN					
		DEMAND USAGE (MG)	BASE RATE	I	BASE REVENUE	TRANSMISSION RATE		ANSMISSION REVENUE		HOLESALE REVENUE
WHOLESALE 1	E.Brunswick	2,548.109	\$2,055.92	\$	5,238,696		\$	-	\$	5,238,696
WHOLESALE 2	Edison/Hld Pk	961.380	\$2,983.11	\$	2,867,902		\$	-	\$	2,867,902
WHOLESALE 3	Rahway	189.944	\$2,983.11	\$	566,624	\$ 1,612.73	\$	306,329	\$	872,953
WHOLESALE 4	Old Bridge Marlboro Marlboro	880.987 1,184.022 1,642.500 7,406.942	\$2,983.11 \$2,983.11	\$ \$ \$	2,628,081 3,532,068 - 14,833,371 74.687%	\$ 1,870.79 \$ 1,870.79	\$ \$ \$	1,648,141 3,072,772 5,027,242 25.313%	\$ \$ \$	4,276,222 3,532,068 3,072,772 19,860,612
	Factor	Factored Demand			Rate / MG					
Rahway	1.00000	189.944		\$	1,612.73					
Old Bridge	1.13937	1,003.769		\$	1,870.79					
Marlboro	1.13937	1,871.413		\$	1,870.79					

REVENUE ADJUSTMENTS REQUIRED TO ESTABLISH ALTERNATIVE RATES

	PRESENT RATES	COS RATES	<u>Change</u>	DIFFERENCE	ADJUSTMENT 1	ADJUSTED DIFFERENCE	ADJUSTMENT 2	ADJUSTED DIFFERENCE	ADJUSTMENT 3	ADJUSTED <u>DIFFERENCE</u>	ALTERNATIVE <u>RATES</u>	<u>Change</u>
RESIDENTIAL	\$34,600,942	\$54,681,709	58.04%	\$20,080,767	\$0	\$20,080,767	\$295,489	\$20,376,256	\$2,645,985	\$23,022,241	\$57,623,183	66.54%
COMMERCIAL	13,533,722	15,153,367	11.97%	1,619,644	0	1,619,644	23,833	1,643,477	213,416	1,856,893	15,390,616	13.72%
INDUSTRIAL	9,554,924	9,623,899	0.72%	68,976	0	68,976	1,015	69,991	9,089	79,079	9,634,003	0.83%
SUBTOTAL	57,689,588	79,458,975	37.74%	21,769,387	0	21,769,387	320,337	22,089,724	2,868,490	24,958,214	82,647,802	43.26%
PRIVATE FIRE SERVICE	6,223,017	6,543,354	5.15%	320,337	0	320,337	(320,337)	0	0	0	6,223,017	0.00%
PUBLIC FIRE SERVICE	4,968,849	8,036,093	61.73%	3,067,244	0	3,067,244	0	3,067,244	(2,868,490)	198,754	5,167,603	4.00%
SUBTOTAL	11,191,867	14,579,447	30.27%	3,387,581	0	3,387,581	(320,337)	3,067,244	(2,868,490)	198,754	11,390,621	1.78%
EDISON / HIGHLAND PARK	2,259,243	2,867,902	26.94%	608,659	0	608,659	0	608,659	0	608,659	2,867,902	26.94%
EAST BRUNSWICK	3,947,352	5,238,696	32.71%	1,291,344	0	1,291,344	0	1,291,344	0	1,291,344	5,238,696	32.71%
OLD BRIDGE MUA	2,795,372	4,276,223	52.98%	1,480,851	0	1,480,851	0	1,480,851	0	1,480,851	4,276,223	52.98%
MARLBORO TOWNSHIP	4,134,229	6,604,838	59.76%	2,470,609	0	2,470,609	0	2,470,609	0	2,470,609	6,604,838	59.76%
RAHWAY	583,571	872,955	49.59%	289,384	0	289,384	0	289,384	0	289,384	872,955	49.59%
SUBTOTAL	13,719,767	19,860,613	44.76%	6,140,847	0	6,140,847	0	6,140,847	0	6,140,847	19,860,613	44.76%
SALES REVENUE	82,601,221	113,899,036	37.89%	31,297,815		31,297,815		31,297,815		31,297,815	113,899,036	37.89%

ADJUSTMENT 1 - THE ALLOCATIONS DO NOT PRODUCE DECREASES TO ANY WHOLESALE CUSTOMERS SO NO ADJUSTEMENT IS NEEDED TO ELIMINATE DECREASES. ADJUSTMENT 2 - ELIMINATES DECREASE TO PRIVATE FIRE CUSTOMERS AND SPREADS BENEFITS TO GENERAL METERED CUSTOMERS. ADJUSTMENT 3 - LIMIT INCREASE TO 4% FOR PUBLIC FIRE CUSTOMERS AND SPREADS REVENUE SHORTFALL TO GENERAL METERED CUSTOMERS.

	COST OF SERVICE			REVENUE ADJUSTMENTS			ALTERNATIVE RATE REVENUES				
·	BASE	USAGE	TOTAL	BASE	USAGE	TOTAL	BASE	USAGE	TOTAL	BASE REV BY SIZE	METER CALC.
GENERAL METERED SERVICE Increase	19,128,821 14.8%	60,330,154 47.1%	79,458,975 37.7%	3,188,827	0	3,188,827	22,317,648 33.9%	60,330,154 47.1%	82,647,802 43.3%	Base Service Reqmt Proposed >3" Res Proposed >3" Com.	22,317,648 0 (1,361,427)
PRIVATE FIRE SERVICE Increase Rate Design Adjustment (B)	3,111,413 -44.3%	3,431,941 435.0%	6,543,354 5.1%	(320,337)	0	(320,337)	2,791,076 -50.0% 2,488,550 5,279,626	3,431,941 435.0% (2,488,550) 943,391	6,223,017 0.0% 0 6,223,017	Proposed >3" Ind 5/8" - 2" Serv Rev Existing 5/8-2"	(1,616,362) 19,339,859 (14,069,469)
							-5.4%	47.1%	0.0%	Remaining Rev Reqd	5,270,390
PUBLIC FIRE SERVICE Increase	8,036,093 61.7%		8,036,093 61.7%	(2,868,490)	0	(2,868,490)	5,167,603 4.0%		5,167,603 4.0%	Serv Chg Incr 5/8-2" PROOF:	37.460%
EDISON / HIGHLAND PARK Increase		2,867,902 26.9%	2,867,902 26.9%		0	0	0	2,867,902 26.9%	2,867,902 26.9%	Res Com Ind	16,521,958 2,706,621 111,455
EAST BRUNSWICK Increase		5,238,696 32.7%	5,238,696 32.7%		0	0	0	5,238,696 32.7%	5,238,696 32.7%	5/8" - 2" Serv Rev	19,340,034
OLD BRIDGE MUA Increase		4,276,223 53.0%	4,276,223 53.0%		0	0	0	4,276,223 53.0%	4,276,223 53.0%	Com Ind >3" Serv Rev	1,361,427 1,616,362 2,977,789
MARLBORO TOWNSHIP Increase		6,604,838 59.8%	6,604,838 59.8%		0	0	0	6,604,838 59.8%	6,604,838 59.8%	TOTAL Base Serv Rev	22,317,823
RAHWAY Increase		872,955 49.6%	872,955 49.6%		0	0	0	872,955 49.6%	872,955 49.6%		
SALES REVENUE Increase	30,276,327 11.25%	83,622,709 50.98%	113,899,036 37.89%	0	0	0	32,764,877 20.40%	81,134,159 46.48%	113,899,036 37.89%		