

**PRE-FILED TESTIMONY  
OF  
TIMOTHY J. BROWN, P. E.**

1 PRE-FILED TESTIMONY

2 TIMOTHY J. BROWN, PE

3  
4 **Q. Please state your name and business address.**

5 A. My name is Timothy J. Brown, P.E. My current business address is 1072 Main Street,  
6 West Warwick, Rhode Island 02893.

7  
8 **Q. By whom are you employed and in what capacity?**

9 A. I am the General Manager/Chief Engineer of the Kent County Water Authority.

10  
11 **Q. Please describe your qualifications and experience.**

12 A. I'm a Registered Professional Engineer in the State of Rhode Island and three other New  
13 England States. I have been certified by the R. I. Department of Health as a Class 4  
14 Drinking Water Distribution Operator and a Class 3 Water Treatment Operator and am the  
15 licensed operator of KCWA. I have been a Civil and Sanitary Engineer for 32 years. My  
16 career has encompassed professional engineering services in various New England States  
17 including the State of Rhode Island and overseas in North Africa in both sanitary waste  
18 water and water engineering project facilities. I have a Bachelor of Science Degree from  
19 the University of Rhode Island.

20  
21 **Q. Have you previously testified before State Regulatory Commissions concerning the  
22 operations matters of Kent County Water Authority?**

23 A. Yes - Dockets #1952, #2034, #2098, #2440, #2555, #2860, #3311 and #3660 along with  
24 various Division Dockets.

25  
26 **Q. Do you belong to any professional organizations or committees?**

27 A. Yes. I'm a member of the American Society of Civil Engineers, American Water Works  
28 Association, New England Water Works Association, Rhode Island Water Works  
29 Association, National Society of Professional Engineers, Rhode Island Society of  
30 Professional Engineers, The American Arbitration Association, American Backflow  
31 Prevention Association and R. I. Backflow Association. I was past president of the Rhode

1 Island Section of the American Society of Civil Engineers and the Rhode Island Society of  
2 Professional Engineers.

3  
4 **Q. What is your role in these proceedings?**

5 A. As General Manager/Chief Engineer of the Kent County Water Authority, I am responsible  
6 for the Authority operations including plant, transmission, pumping stations and storage  
7 facilities within the Kent County Water Authority.

8  
9 **Q. What are the total water sales for the Kent County Water Authority during each of  
10 the last five fiscal years (excluding Warwick)?**

11 A. Last five fiscal year water sales in cubic feet (FY 03, 04 and 05 are unadjusted, FY 06 and  
12 07 are adjusted) are as follows:

13  
14 FY 03 – 447.0 million cubic feet

15 FY 04 – 435.8 million cubic feet

16 FY 05 – 430.9 million cubic feet

17 FY 06 – 424.0 million cubic feet

18 FY 07 – 390.3 million cubic feet

19  
20 **Q. Doesn't this show a clear downward trend in sales?**

21 A. Yes, it does. It is somewhat unknown but I believe it relates to our demand management  
22 methods, loss of large customers, wetter than normal years and generally less water use  
23 by our customers.

24  
25 **Q. What is the fiscal year of the Kent County Water Authority?**

26 A. From July 1<sup>st</sup> to the succeeding June 30<sup>th</sup>.

27  
28 **Q. What is the test year of the Kent County Water Authority in this filing?**

29 A. From July 1, 2006 to the succeeding June 30, 2007.

30

- 1 **Q. What is the rate year of the Kent County Water Authority in this filing?**  
2 A. November 1, 2008 to October 31, 2009.  
3
- 4 **Q. What is the average number of customers for the Kent County Water Authority?**  
5 A. The number of retail billable customers based on our records is 26,564 (adjusted for  
6 compound meters) as of June 30, 2007. Mr. Woodcock's schedules present the numbers  
7 of meters by size as of June 30, 2007.  
8
- 9 **Q. As the General Manager have you reviewed this docket and Mr. Woodcock's  
10 testimony and schedules?**  
11 A. Yes.  
12
- 13 **Q. Please explain the request in front of this Commission.**  
14 A. Our revenue needs for rate year is \$21,657,097 which is a \$5,464,556 increase in revenue  
15 needs. That equates to a 35 percent increase in metered rates. An increase in public and  
16 private hydrant charges are also proposed, but less than the metered rates. Our average  
17 customer (residential) will see a \$39.11 increase per quarter in the water cost or \$13.04  
18 per month. That equates to 43 cents per day cost increase. The cost per gallon of water  
19 will be approximately 2/3 cents per gallon and the quarterly bill will be approximately  
20 \$150.78 or \$1.66 per day for all water use within the home. This is certain of minimal  
21 impact to the normal household.  
22
- 23 **Q. What is the make-up of the revenue needs of \$21,657,097?**  
24 A. I have attached a chart of the required revenue/expenses of the major categories and it is  
25 self-explanatory.  
26
- 27 **Q. Please describe the Kent County Water Authority's system?**  
28 A. Kent County Water Authority encompasses eight cities and towns in central Rhode Island.  
29 These municipalities are either completely or partially served by the Authority. They are  
30 the Town of Scituate, City of Cranston, Town of West Warwick, City of Warwick, Town

1 of Coventry, Town of East Greenwich, Town of West Greenwich and the Town of North  
2 Kingstown. We have one active well and two well fields currently offline. The active well  
3 is located in the City of Warwick. The offline well fields are located in Coventry, Spring  
4 Lake and the Mishnock well field. We have eight active water storage tanks, Tiogue Tank,  
5 Frenchtown Road Tank, Setian Lane Tank, Read School House Road Tank, two (2)  
6 underground tanks at Seven Mile Road which operate as one, Wakefield Street Tank,  
7 Technology Park Tank and Carr Pond Tank. We have one non-active tank, the West Street  
8 Tank and an abandoned tank, the West Warwick Industrial Park Tank. Kent County Water  
9 Authority was formed in 1946 by an Act of the General Assembly; and, at that time, it  
10 purchased three existing water systems to encompass the areas serviced. We have  
11 approximately 400 miles of distribution mains along with 2,317 public and 150 private fire  
12 hydrants as of June 30, 2007.

13  
14 **Q. Does the Kent County Water Authority currently have an active infrastructure**  
15 **program in accordance with State statutes?**

16 A. Yes, we do and it has been funded by the Commission to a maximum level of \$4.8 million  
17 dollars per year. Our program is current and scheduled for its 5 year update in the year  
18 2008.

19  
20 **Q. Mr. Brown, is it your intention under this filing to increase the request for**  
21 **infrastructure funding?**

22 A. Yes, we seek the Commission's order to provide the \$6,000,000 approved plan  
23 requirement. This is an increase of \$1,194,626 from the currently approved amount.

24  
25 **Q. Mr. Brown, please explain briefly to the Commission the current infrastructure**  
26 **program.**

27 A. I'd be happy to. Currently our infrastructure program is based on a year-to-year design and  
28 construction program based on funding. We try to issue as many projects each year for  
29 infrastructure improvements as possible, in particular water main replacements. It is  
30 important for KCWA to balance the funds available with the obligations incurred. It is our  
31 policy not to expend funds (commit to a contract) unless the finances are available for the

1 complete project. For instance, we review our programs and finances periodically  
2 balancing the available funds with the existing commitments and balances remaining to be  
3 paid for the outstanding contracts. This is critical to us as we can not expect monthly  
4 payment to the restricted account to be made unless sufficient revenue is available. As has  
5 been suggested by some we do not pledge unsecured revenue to future expenditures or  
6 contract commitments. We will not commit to a contract for construction unless the funds  
7 are in the restricted account or there is a certainty that they will be there. Another aspect  
8 that seems to be misunderstood is the length and duration of a contract commitment and  
9 final payment. In some cases 3 years can pass for the complete contract/payment to be  
10 completed. This does add to the misunderstanding of the restricted account balance and the  
11 available funds. Attached as Schedule 1 to my testimony is a balancing of our program  
12 with expected funding and programs for the next 2 years. Note that it is short by \$5.8  
13 million dollars and assumes that the Commission will grant the \$6 million as a total funded  
14 program. This deficit projected will not stop the design effort for projects 2009A or  
15 2009B, but we would not bid for construction until the finances are secured or reasonable  
16 certainty that they will be available. Most certainly our infrastructure program has been  
17 key to our improved transmission system. Quality, pressure and fire protection have all  
18 been improved in the areas we have completed. Our program is extremely active and we  
19 believe aggressive but needed for our 120 year old system. We are beginning to see quite  
20 vividly the improvements due to water line replacements that have occurred. Needless to  
21 say, we have a long way to go, but we are very pleased with our activities to date. The  
22 program will need to be accelerated in future years to make up for the shortfall in funding  
23 between the approved plan and the authorized funding. The 2008 updated plan will revise  
24 the needs and cost per year to complete which will absorb any shortfall.

25  
26 **Q. Is KCWA current with the IFR payments to the restricted account for the program?**

27 A. No. We are currently (February 2008) missing 4 payments to the account which totals  
28 \$1,601,791.

29  
30 **Q. Mr. Brown what is the reason for that shortfall?**

1 A. Quite simply the lack of revenue. It is the last restricted account we “fill” each month if  
2 revenue is available.

3

4 **Q. Is it the intention of the Authority to recover the revenue to fund the account**  
5 **shortfall?**

6 A. No. We do request the full complement of funding to continue our program as approved in  
7 the plan.

8

9 **Q. Mr. Brown, in the previous rate order, the Commission provided a Renewal and**  
10 **Replacement Fund for equipment replacement at \$100,000 per year. Is that correct?**

11 A. Yes.

12

13 **Q. Is it your desire to continue that funding under this rate case?**

14 A. Yes, we have proposed no changes to the Renewal and Replacement Equipment Fund for  
15 this rate case. We will, however, need to revisit this in our next proposed rate case as  
16 inflation and large equipment purchases are needed.

17

18 **Q. Is it the desire of KCWA to continue the funding of the \$25,000 per year “study”**  
19 **allocation?**

20 A. Yes, we are currently working on our 2008 CIP and our 2008 IFR update and just recently  
21 completed our Water Supply System Management Plan update and a Distribution Storage  
22 Tank Hydraulic Evaluation Study. Either required by law or by system needs, this  
23 allocation is vital to KCWA. Currently the contract commitments are as follows:

24

25 WSSMP - \$19,995.00

26 2008 IFR - \$14,630.00

27 2008 CIP - \$47,500.00

28 Tank/Distribution Evaluation - \$57,000.00 (Final Billing Expected)

29

30 **Q. Is the Authority requesting any additional personnel requirements in this filing?**

1 A. Yes, now that our GIS system is operational, we need to maintain it and implement it  
2 throughout all aspects of our operation. We, therefore, need an operator that will provide  
3 both field services for data collection and implementation as well as daily updates of the  
4 system database. The position will be technical and will interface between the field  
5 personnel and office staff. We hope to acquire a recent graduate of a technical school well  
6 versed and technically proficient in the GIS software we possess. AutoCAD or computer  
7 aided drafting skills will also be necessary as the interface of the two software programs is  
8 necessary for our mapping and hydraulic modeling. Also, all current plans both as-built  
9 and construction are designed in AutoCAD. The acquisition of that program and an  
10 operator proficient in it is needed to read these formats. The capability of acquiring this  
11 position will greatly enhance the utilization of these products for all employees to use. We  
12 estimate a salary of \$40,000 for this position, excluding benefits. This will be a fulltime  
13 position and will be a newly created function for KCWA.

14  
15 **Q: How many employees does KCWA now have and how many were authorized in the**  
16 **last case?**

17 A: 34 employees in both cases. We have been growing at a steady pace and have kept  
18 personnel to a minimum. The 34 employee allocation is considerably less than what is  
19 needed for operations and only 5 more employees than when I was hired 20 years ago.  
20 Over the next multiple rate filings discussed in this testimony we will be seeking an  
21 increase in employee allocation. We must consider the added personnel to keep pace in  
22 operation and maintenance activities.

23  
24 **Q. Are you considering any increase in labor costs outside of the proposed new**  
25 **employee?**

26 A. Yes, an increase in salaries based on our historic increases is proposed and outlined in Mr.  
27 Woodcock's Schedule 1B.

28  
29 **Q. Why is this necessary and didn't the Commission comment on that in Order #18316?**

30 A. The Authority believes that our strength is in our dedicated professional personnel. We  
31 pride ourselves in training and education of the employees and continue to demand more



1 from them daily to meet the needs of the system. A staff that is well educated, dedicated  
2 and willing to step up to the daily challenges must be well compensated. We are most  
3 certainly understaffed for a utility of our size. I can say without a doubt that our employees  
4 will exceed in qualifications, work ethic and ability of any other utility's employees. The  
5 cost savings by operating understaffed, outweighs the increases proposed. It is for this  
6 reason that we operate understaffed, but provide quality service to our customers and we  
7 will always continue to do so. It is for this reason as well we will continue to provide  
8 adequate pay for the employees. There is a point when staff can no longer meet the  
9 additional workload and a reassessment of staff levels must be done. We have over the last  
10 two years, this will be our third, implemented a tiered salary structure for all hourly  
11 employees. It is based on years of service, operator designation, operator qualifications  
12 and merit. We have seen the positive effect of it and believe it enhances the qualifications  
13 of our employees.

14  
15 **Q. Is the Authority proposing any new bond or debt service instruments with this filing?**

16 A. No new bond issues, but a small increase to existing debt service is required along with  
17 funding for the O & M and R & R reserve accounts mandated under our trust indenture.  
18 Mr. Woodcock will discuss that in his testimony and accompanying schedules to his  
19 testimony. We do have a refinancing approval from the Division, but due to the upheaval  
20 in the bond market we have not proceeded.

21  
22 **Q. Mr. Brown, are you proposing any tariff changes?**

23 A. Yes, certainly the changes to our rates as outlined in this filing, but also a needed change is  
24 sought for the Turn On Charge. Currently it is charged at a flat rate of \$50.00 per  
25 occurrence. We have never charged for "turn off" even though costs are incurred by our  
26 employees. The current \$50.00 is disproportionate to the cost associated with a Turn  
27 Off/Turn On. We believe it is unfair to assess our customers who pay on time the cost of  
28 those that are delinquent. It is, therefore, important to assess charges on only those that  
29 incur the cost. We propose a Turn Off Charge of \$55.00 per occurrence and a Turn On  
30 Charge of \$45.00 per occurrence. A breakdown of that charge analysis is attached to my  
31 testimony as Schedule 2.

1 **Q: Has the Authority considered the development and adoption of seasonal rates?**

2 A: Yes, this is a matter that the Board has discussed for a number of years as a demand  
3 management tool and that we have discussed with Mr. Woodcock. We are certainly  
4 supportive of the idea of seasonal rates that will help manage peak summer demands, the  
5 specific demand management tool needed. While Mr. Woodcock has also supported the  
6 Authority's goal to adopt seasonal rates, he has raised the concern of revenue stability that  
7 comes with seasonal rates. He is concerned that the current allowance of an operating  
8 reserve set at only 1.5% of operating costs (excluding debt and capital) is insufficient to  
9 provide protection against drops in summer water use when the rate is the highest. In this  
10 filing we have included an alternative seasonal rate for the Commission's consideration.  
11 We understand that it is not an ideal seasonal rate, but it does present the Board's good  
12 faith attempt to start the adoption of a seasonal rate that will hopefully cause wiser use of  
13 water by our customers. We have presented this alternative hesitantly. From our point of  
14 view, it is imperative that the Commission provides operating revenue based on total  
15 revenues and that the allowance truly reflect the volatility of summer water use and  
16 revenues. Mr. Woodcock's testimony addresses this in more detail, but I do wish to  
17 emphasize that the Authority does NOT support any seasonal rate unless it includes an  
18 increased operating revenue allowance to provide KCWA with the revenue protections it  
19 needs.

20  
21 **Q. Are there any others you are proposing?**

22 A. Yes. We need to create an enforcement charge for violation of moratoriums on use of  
23 water and violations of water use restrictions. Initially we believe it should be based on  
24 actual costs to notify and terminate service and then as enforcement for willful violation of  
25 the restrictions. In order to administer any type of water use restriction program a  
26 regulatory charge must provide the impetus to comply. Historically most customers that  
27 are notified comply with the water use restriction warnings. In rare cases compliance is  
28 ignored requiring repeated notifications and then shut off for violation. Currently a \$50.00  
29 Turn On charge is assessed to reactivate. There is no further penalty except to repeat the  
30 Turn Off/Turn On for a \$50.00 charge. We propose the following in any water use  
31 restriction or moratorium called for in a water emergency.

FOR SAME EVENT

1. Notice of Violation via KCWA employee either a door hanger or direct contact with the customer No Charge.
2. 2<sup>nd</sup> Notice of Violation service termination with the charges of Turn Off and Turn On to be assessed.
3. 3<sup>rd</sup> Notice of Violation service termination with a flat charge to reactivate of \$250.00.
4. 4<sup>th</sup> Notice of Violation service termination with a flat charge to reactivate of \$500.00.
5. 5<sup>th</sup> Notice of Violation service termination till event has been rescinded. Charges of Turn Off and Turn On to be assessed.

**Q. Mr. Brown, in Rate Order 18316 the Commission required KCWA “to undertake a review of its medical benefits and costs and report back to the Commission in its next rate case.” Has the KCWA already done that?**

A. Yes, as a matter of fact the Commission requested that exact information through counsel on January 22, 2007. Responses were provided complying with the Order 18316.

**Q. On a going forward basis what is KCWA’s position on review of its medical benefits and costs?**

A. The KCWA has and plans to review its costs yearly by engaging a firm to bid and compare coverage offered for both medical and dental coverage. For our current FY 2008 that was done prior to policy renewals in May of 2007.

**Q. Is it true that their have been 2 reviews by an independent broker of KCWA’s medical and dental coverage over the last 2 years?**

A. Yes.

**Q. What was the outcome of the last review, that being for FY 2008?**

1 A. The initial renewal from Blue Cross Blue Shield of RI for medical coverage represented a  
2 14.9% increase.

3  
4 After comparing the census used at BC/BS, discrepancies were found. By comparing the  
5 new census with the old one used for renewal, the underwriters from BC/BS reduced the  
6 rates to a 9.1% increase. Changes to the census reduced the original renewal rates by 4.4%.

7  
8 The retiree rates were significantly reduced by moving to a new pharmacy benefit;  
9 something that is standard in the marketplace. We saved approximately \$7,500 with a  
10 small change in plan for the retirees.

11  
12 The rates from United Healthcare were again not competitive with BC/BS RI.

13  
14 The dental rates from BC/BS RI were very competitive; however, KCWA would have to  
15 pay a substantial penalty for terminating the last year of a 3-year contract with Delta Dental  
16 of RI (\$10,406.73). We plan to remarket our dental coverage next year when our contract  
17 ends.

18  
19 **Q. Do you have anything else to add concerning this issue?**

20 A. The KCWA, since embarking on the yearly review, has been proactive in controlling  
21 medical costs. We are certainly pleased with the direction set by the Commission to review  
22 our medical benefits. As we continue to competitively market our program we believe it  
23 will continue to provide cost savings each year.

24  
25 **Q. Mr. Brown does KCWA have any plans for future rate cases?**

26 A. Yes, we do and we think it is important to explain our tentative plans.  
27

28 **Q. Please explain this for the Commission.**

29 A. There is now great uncertainty in the water industry within the state due to the Statewide  
30 House and Senate Commissions studying water supply. Certainly, the Commission is  
31 aware of these studies as they have testified and the Commission is also aware of the Joint

1 Commission that studied the Kent County Water Authority and the results of that. In order  
2 to position ourselves for what we believe will be the outcome of some of the proposed  
3 legislation that we have seen, we have planned out a three rate case approach to comply  
4 with those expected requirements. The current rate case filed under this docket deals with  
5 bringing Kent County Water Authority revenue in line with our expenditures and full  
6 funding of the infrastructure program. This would include known and measurable changes  
7 caused by inflation and energy related cost increases for the items we utilize. Just for  
8 example in Table C of the exhibits the cost of energy increase is clearly seen in the add-on  
9 charges for delivery referred to as fuel charge. We are proposing one additional employee  
10 to benefit us in our GIS and electronic plans to keep abreast of technology that all systems  
11 are now using and have been for some time. We propose within a year's time of this rate  
12 order from this docket to again file a rate case which will deal with the first facet of  
13 demand management and billing structure. It will include a new meter program to install  
14 radio frequency meters throughout our system in anticipation of monthly billing for  
15 demand management and true seasonal rate implementation. It will also include  
16 recommendations from the new IFR Program to be developed in 2008 as well as the  
17 potential of implementation of some of our Capital Improvement Programs to be developed  
18 in our 2008 Capital Improvement Program. Those are unknown at this time as they are in  
19 development. This is also the point when operators for our treatment plant will be  
20 necessary and staffing allocation will be assessed. Upon completion of the Meter  
21 Installation Program, tentatively proposed for 2 years, we will again file a rate case to  
22 implement monthly reads and billing and implementation of true seasonal rates to our  
23 customers for demand management. This will include a new cost of service study which  
24 will be developed prior to our filing along with the needed reserve or rainy day account to  
25 secure financial wellbeing during wet years as well as securing funds for the future during  
26 dry years. We believe this will be the ultimate goal of the legislation, true seasonal rates,  
27 true monthly billing and a demand management strategy based on consumption. Whether  
28 in the third filing after the meter installation is complete additional items of the Capital  
29 Infrastructure Program are considered is unknown at this time. However, our goal would  
30 be to concentrate on those items to meet the legislative findings and directives that are  
31 anticipated to be provided to the water supply industry.

1 **Q. Why do you think this approach to demand management will be key in the legislation**  
2 **being proposed by the Senate and House Committees?**

3 A. There has been no impetus or acceptance of future water supply within this state in  
4 particular the Big River Reservoir Project. The fledgling Big River well project is  
5 stagnated and if it is reinvigorated will not provide a viable supply of any significance  
6 based on cost. In order for the State of Rhode Island to continue to grow and prosper, a  
7 secure sufficient water supply must be at hand. Ever increasing pressure is upon us for  
8 groundwater supply with the potential of groundwater supply being nonexistent in the  
9 future based on additional proposals for water withdrawal, river standards, etc. that are also  
10 being discussed in Legislation. It will be crucial and critical for water suppliers; in  
11 particular, the Kent County Water Authority to decrease demand of existing customers in  
12 the summer to have sufficient water for the short term future customers as we do not  
13 believe new supply will be made available. It is clear that efforts to secure new supply are  
14 unrealistic due to the finite resources within this state. Therefore, our emphasis must be  
15 upon securing our existing supply, improving our existing supply and decreasing use of our  
16 existing supply during the summer months.

17  
18 **Q. In Docket #3660, Order #18316, Page 29 the Commission modified the compliance**  
19 **reports from semiannually to every 4 months. Is that of concern to you?**

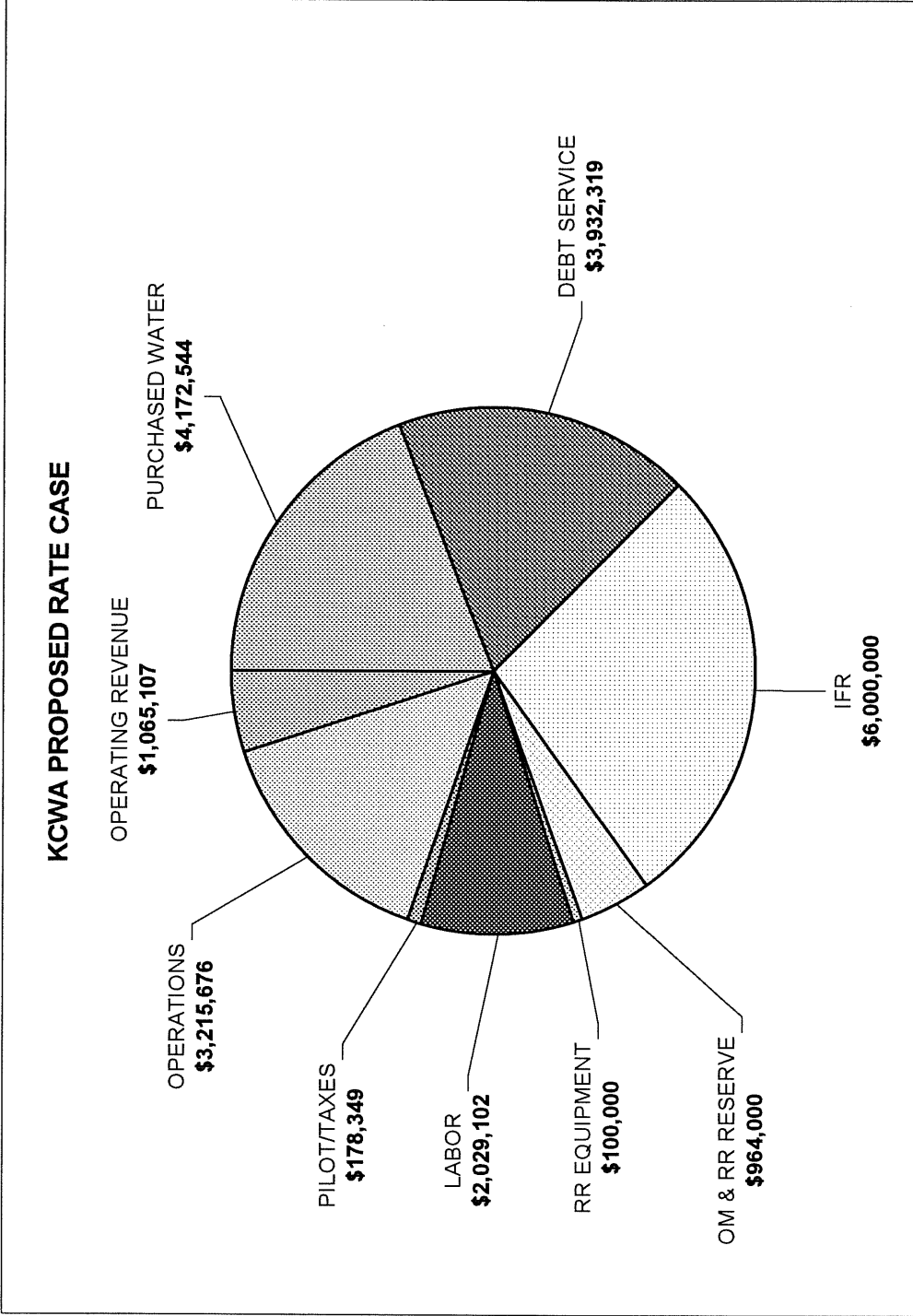
20 A. Yes, since this did not come up in testimony during that docket it was surprising to see the  
21 reasoning behind it. Four month reporting is virtually useless when it comes to  
22 construction projects; in particular, with the winter shutdowns from December 1<sup>st</sup>, to April  
23 15<sup>th</sup> of each year. Billing always lags construction installation, in some cases by 2 months.  
24 It is sometimes the practice to see bills held by contractors for payment. The actual  
25 construction progress and payment will always lag. We are required to provide semiannual  
26 financial reports. Timing with those and modifying the scope of the reports would  
27 certainly be more comprehensive for monitoring the programs. We would be happy to  
28 review the reporting with the Division and Commission representatives to make the  
29 reporting comprehensive in our semiannual reporting verses 4 month reporting with the  
30 involvement of the Division and Commission staff.

31

1 Q. Does this conclude your testimony?

2 A. Yes.

PURCHASED WATER	\$4,172,544
DEBT SERVICE	\$3,932,319
IFR	\$6,000,000
OM & RR RESERVE	\$964,000
RR EQUIPMENT	\$100,000
LABOR	\$2,029,102
PILOT/TAXES	\$178,349
OPERATIONS	\$3,215,676
OPERATING REVENUE	\$1,065,107
<u>REQUIRED REVENUE</u>	<u>\$21,657,097</u>





# **TJB SCHEDULE 1**

**IFR FUNDING  
AS OF FEBRUARY 2008**

**FUNDING:**

FUNDING AS OF JANUARY 31, 2008	\$5,257,833
FEBRUARY, MARCH, APRIL, MAY & JUNE PAYMENT	\$2,002,240

<b>FUNDING AVAILABLE AS OF JUNE 30, 2008</b>	\$7,260,073
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4 BACK PAYMENTS (will not be made up)	\$1,601,792
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<b>AVAILABLE TOTAL FUNDING</b>	\$7,260,073
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**ESTIMATED ALLOCATED EXPENDITURES 2007/2008**

IFR 2005 CONSTRUCTION (TO COMPLETE)	(\$500,000)
TIOGUE RE-SERVICE	(\$3,000,000)
QUAKER BOOSTER REFURBISHMENT (SET ASIDE 3,000,000 TOTAL)	(\$500,000)
QUAKER BOOSTER REFURBISHMENT DESIGN & CONSTRUCTION SERVICES	(\$150,000)
IFR 2006A CONSTRUCTION (TO COMPLETE)	(\$2,000,000)
GREENWICH AVENUE REPLACEMENT (TO COMPLETE)	(\$700,000)
IFR 2006B & IFR 2007 (HOLD APPONAUG TILL STATE PROJECT) (TOTAL 5,000,000)	(\$500,000)
DESIGN SERVICES IFR 2009A & 2009B	(\$100,000)

<b>TOTAL EXPENDITURES AS OF JUNE 30, 2008</b>	(\$7,450,000)
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2006A W.R.B. INTERCONNECTION GRANT	\$3,000,000
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**ESTIMATED ALLOCATED EXPENDITURES 2008/2009**

QUAKER BOOSTER REFURBISHMENT (SET ASIDE)	(\$2,500,000)
IFR 2006B & IFR 2007	(\$4,500,000)
APPONAUG SET ASIDE (IFR 2007 SEPARATION)	(\$1,500,000)
IFR 2009A & 2009B	(\$5,900,000)

<b>TOTAL EXPENDITURES AS OF JUNE 30, 2009</b>	(\$14,400,000)
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FUNDING (JULY 1, 2008 - JUNE 30, 2009)	\$5,701,344
JULY - SEPTEMBER (400,448/MONTH)	
OCTOBER - JUNE (500,000/MONTH)	

<b>TOTAL DEFICIT JUNE 30, 2009</b>	(\$5,888,583)
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IN ALL LIKELIHOOD, NOT ALL PROJECTS WILL BE COMPLETED BY JUNE OF 2009. CARRY OVER EXPENDITURES WILL BE INCLUDED IN FY 2010 ESTIMATED EXPENDITURES.

**INFRASTRUCTURE PROGRAM**

REVISED 2-26-08

2009 - A

TOWN	DESCRIPTION	FEET	PIPE RANKING	LABEL	SIZE-TYPE AGE	ESTIMATED COST	BUDGET REMAINING	NOTES
	<b>BUDGET AMOUNT FOR 2008/2009</b>						\$6,000,000	
	ENGINEERING DESIGN AND CONSTRUCTION MANAGEMENT					\$900,000	\$5,100,000	15% BUDGETED AMOUNT
	CONTINGENCY INCLUDES STATE AND CITY ISSUES					\$510,000	\$4,590,000	10% BUDGETED AMOUNT
1	EG AYRAULT RD.	736	747	P-4193	6" A.C. 1970	\$147,200	\$4,442,800	ABANDON 152' - 6" A.C. (1970) & 428' - 6" PVC (1988)
2	EG AYRAULT RD.	N/A	1500	P-4195	6" P.V.C. 1988	\$0	\$4,442,800	
3	EG SLEEPY HOLLOW RD.	1300	790	P-4198	6" A.C. 1970	\$260,000	\$4,182,800	INCLUDES LOOP TO 12" MAIN @ RT. 2 ABANDON 1186' - 6" A.C. (1970)
4	EG PEQUOT TR.	1110	782	P-4190	8" A.C. 1970	\$222,000	\$3,960,800	KING PHILLIP TO WILDWOOD
5	EG PEQUOT TR.	950	781	P-4194	6" A.C. 1970	\$190,000	\$3,770,800	ABANDON 1110' - 8" A.C. (1970) AYRAULT TO WILDWOOD
6	EG PEQUOT TR.	1190	NOT LISTED	NOT LISTED	6" A.C. 1970	\$238,000	\$3,532,800	ABANDON 950' - 6" A.C. (1970) CUL-DE-SAC TO KING PHILLIP
7	EG KING PHILLIP TR.	780	1262	P-4200	8" A.C. 1970	\$156,000	\$3,376,800	ABANDON 715' - 6" & 161' 8" AC (1970) RT. # 2 TO PEQUOT
8	EG WILDWOOD TR.	1098	803	P-4192	6" A.C. 1970	\$219,600	\$3,157,200	ABANDON 780' - 8" A.C. (1970) PEQUOT TO AYRAULT
9	EG RIDGE RD.	510	6	P-4187	6" A.C. 1970	\$102,000	\$3,055,200	ABANDON 1098' - 6" A.C. (1970) VALLEY RD. TO # 44 RIDGE
10	EG VALLEY RD.	1190	796	P-4189	6" A.C. 1970	\$238,000	\$2,817,200	ABANDON 510' - 6" A.C. (1970) PEQUOT TO SLEEPY HOLLOW
11	EG LAUREL LN.	250	NOT LISTED	NOT LISTED	1 1/2" GALV. UNK. YEAR	\$50,000	\$2,767,200	ABANDON 1155' - 6" A.C. (1970) WILDWOOD TR. TO END
12	EG CONONCHET TR.	312	755	P-4203	6" A.C. 1970	\$62,400	\$2,704,800	ABANDON 250' - 1 1/2" GALV. KING PHILLIP TO END
13	EG CANONICUS TR.	460	752	P-4205	6" A.C.	\$92,000	\$2,612,800	ABANDON 312' - 6" A.C. (1970) KING PHILLIP TO PEQUOT
14	EG CROP ST.	260	58	P-4619	4" C.I. 1885	\$52,000	\$2,560,800	ABANDON 460' - 6" A.C. (1970) INSTALL 12" KING TO WINE
15	EG BICKNELL AVE.	375	57	P-4621	4" C.I. 1885	\$75,000	\$2,485,800	ABANDON 260' - 4" C.I. (1885) INSTALL 12" DIV. TO WINE
16	EG WINE ST.	40	64	P-4620	4" C.I. 1885	\$8,000	\$2,477,800	ABANDON 375' - 4" C.I. (1885) INSTALL 12" BICKNELL TO CROP
								ABANDON 40' - 4" C.I. (1885)

**INFRASTRUCTURE PROGRAM**

REVISED 2-26-08

2009 - A

TOWN	DESCRIPTION	FEET	PIPE RANKING	LABEL	SIZE-TYPE AGE	ESTIMATED COST	BUDGET REMAINING	NOTES
17 EG	WINE ST.	250	N/A	N/A	NO MAIN	\$50,000	\$2,427,800	INSTALL 8"
18 EG	DIVISION ST.	465	1126	P-4560	8" C.I. 1890	\$93,000	\$2,334,800	BICKNELL AVE. TO DUKE ST. INSTALL 12" MARLBOROUGH TO BICKNELL
19 EG	DUKE ST	640	59	P-4616	4" C.I. 1887	\$128,000	\$2,206,800	ABANDON 465' - 8" C.I. & 6" C.I. DIVISION ST. TO KING ST.
20 WAR	LADD ST.	750	70	P-2404	4" C.I. 1890	\$150,000	\$2,056,800	ABANDON 640' - 4" C.I. (1887) POST RD TO BLACKMORE ST.
21 WAR	BLACKMORE ST.	579	66	P-2403	4" C.I. 1890	\$115,800	\$1,941,000	ABANDON 507' 4" C.I. WILLIAMS ST. TO LADD ST.
22 WAR	WILLIAMS ST.	590	72	P-2401	4" C.I. 1890	\$118,000	\$1,823,000	ABANDON 579' - 4" C.I. (1890) POST RD TO BLACKMORE ST.
23 WAR	NORTH MARLBOROUGH ST.	425	71	P-2410	4" C.I. 1890	\$85,000	\$1,738,000	ABANDON 590' - 4" C.I. (1890) DIVISION TO LADD ST.
24 WAR	NORTH MARLBOROUGH ST.	600	NOT LISTED	NOT LISTED	6" A.C. 1957	\$120,000	\$1,618,000	ABANDON 120' - 4" C.I. (1890) LADD ST. TO WILLIAMS ST.
25 WAR	DUANE ST.	1009	67	P-2406	4" C.I. 1890	\$201,800	\$1,416,200	ABANDON 140' - 6" AC (1957) DIVISION TO WILLIAMS ST.
26 WAR	HALL ST.	387	69	P-2411	4" C.I. 1890	\$77,400	\$1,338,800	ABANDON 1009' - 4" C.I. & 421' 8" AC DIVISION TO ARNOLD AVE.
27 WAR	ARNOLD AVE.	278	65	P-2412	4" C.I. 1890	\$55,600	\$1,283,200	ABANDON 387' - 4" C.I. (1890) POST RD TO HALL ST.
28 EG	DUKE ST	1130	59	P-4616	4" C.I. 1887	\$226,000	\$1,057,200	ABANDON 278' - 4" C.I. (1890) KING ST. TO LONDON ST.
28 W.W. COV	HILLSIDE AVE.	1130	1135	P-1212	12" C.I. 1887	\$226,000	\$831,200	ABANDON 1130 - 4" C.I. (1887) FAIRVIEW TO YEATON ST. INSTALL 8"
30 COV	HILLSIDE AVE.	447	287	P-8077	6" A.C. 1949	\$89,400	\$741,800	ABANDON 1086' - 12" C.I. (1887) YEATON ST TO BEE ST.
31 COV	FONES ST	450	34	P-8078	6" A.C. 1949	\$90,000	\$651,800	ABANDON 447' - 6" A.C. (1949) HILLSIDE TO END
32 COV	DENNIS ST	203	NOT LISTED	NOT LISTED	6" A.C. 1949	\$40,600	\$611,200	ABANDON 337' - 6" A.C. (1949) FONES TO BEE ST.
33 COV	BEE ST.	310	NOT LISTED	NOT LISTED	6" A.C. 1949	\$62,000	\$549,200	ABANDON 203' - 6" A.C. (1949) HILLSIDE TO DENNIS ST.
34 COV	YEATON ST	606	1123	P-8076	12" C.I. 1887	\$121,200	\$428,000	ABANDON 102' - 6" A.C. (1949) HILLSIDE TO END ABANDON 606' - 12" C.I. (1887)



**INFRASTRUCTURE PROGRAM**

2009 B

REVISED 2-26-08

TOWN	DESCRIPTION	FEET	PIPE RANKING	LABEL	SIZE-TYPE AGE	ESTIMATED COST	BUDGET REMAINING	NOTES
	<b>BUDGET AMOUNT FOR 2008/2009</b>						\$6,000,000	
	ENGINEERING DESIGN AND CONSTRUCTION MANAGEMENT					\$900,000	\$5,100,000	15% BUDGETED AMOUNT
	CONTINGENCY INCLUDES STATE AND CITY ISSUES					\$510,000	\$4,590,000	10% BUDGETED AMOUNT
1	CRAN HOPE RD.	593	1124	P-5121	12" C.I. 1886	\$118,600	\$4,471,400	SEVEN MILE RD. EAST
2	CRAN HOPE RD.	803	564	P-5122	6" C.I. 1886	\$160,600	\$4,310,800	
3	CRAN HOPE RD.	505	NOT LISTED	NOT LISTED	6" A.C. 1965	\$101,000	\$4,209,800	WEST OF B.P.S.
4	CRAN HOPE RD.	1609	1448	P-5127 P-5128	4" D.I. 1999	\$321,800	\$3,888,000	B.P.S. EAST TO 300' EAST OF LATEN KNIGHT RD.
5	SCIT GODDARD ST.	239	575	P-6085	6" C.I. 1887	\$47,800	\$3,840,200	
6	SCIT BROWN ST.	185	574	P-6084	6" C.I. 1887	\$37,000	\$3,803,200	
7	WW HARLEY ST.	2478	1098	P-621	8" A.C. 1954	\$495,600	\$3,307,600	
8	WW BRYANT PLACE	434	468	P-637	6" A.C. 1955	\$86,800	\$3,220,800	
9	WW LADA DR.	424	504	P-634	6" A.C. 1955	\$84,800	\$3,136,000	
10	WW SHEFFIELD AVE.	1661	531	P-614	6" A.C. 1954	\$332,200	\$2,803,800	
11	WW ROUNDWAY DR.	1393	529	P-612	6" A.C. 1953	\$278,600	\$2,525,200	TIE IN TO PULASKI ST.
12	WW SHERWOOD DR.	732	532	P-613	6" A.C. 1954	\$146,400	\$2,378,800	
13	WW WILSHIRE WAY	873	541	P-617	6" A.C. 1955	\$174,600	\$2,204,200	
14	COV WINDSOR PARK DR.	3047	355	P-8203	6" A.C. 1953	\$609,400	\$1,594,800	
15	WW EILEEN DR.	446	484	P-606	6" A.C. 1959	\$89,200	\$1,505,600	
16	WW BARNOLD ST.	1050	464	P-598	6" A.C. 1953	\$210,000	\$1,295,600	PULASKI ST. TO SIDNEY ST. ELIMINATES TWO DEAD ENDS

**INFRASTRUCTURE PROGRAM**

2009 B

REVISED 2-26-08

TOWN	DESCRIPTION	FEET	PIPE RANKING	LABEL	SIZE-TYPE AGE	ESTIMATED COST	BUDGET REMAINING	NOTES
17 WW	ALDRICH ST.	1150	462	P-600	6" A.C. 1963	\$230,000	\$1,065,600	PULASKI ST. TO SIDNEY ST. ELIMINATES DEAD END
18 WW	SIDNEY ST.	1298	534	P-623	6" A.C. 1955	\$259,600	\$806,000	
19 WW	KOWALIK DR.	582	503	P-632	6" A.C. 1954	\$116,400	\$689,600	
20 WW	FENLAND DR.	275	490	P-616	6" A.C. 1955	\$55,000	\$634,600	
21 WW	CREIGHTON PLACE	590	478	P-619	6" A.C. 1955	\$118,000	\$516,600	
22 COV	KENNINGTON AVE.	534	296	P-8205	6" A.C. 1953	\$106,800	\$409,800	
23 COV	KIMBERLY AVE	463	297	P-8208	6" A.C. 1953	\$92,600	\$317,200	
24 COV	KATHY AVE.	350	295	P-8211	6" A.C. 1953	\$70,000	\$247,200	
25 WW	HARVEST DR.	346	868	P-608	6" A.C. 1967	\$69,200	\$178,000	
26 WW	COACHES CT.	192	475	P-622	6" A.C. 1955	\$38,400	\$139,600	
	TOTAL FOOTAGE :	22252						

# **TJB SCHEDULE 2**



## TURN OFF CHARGE

	FUNCTION	ESTIMATE
1)	Check payment record Print shut-off report Check status of payment	10 Minutes/Account
2)	Office dispatch and setup of disconnect of service or collection	15 Minutes/Account
3)	Employee assignment and transport to site Estimate: sketch card review/curb stop Estimate: 5 miles each way to and from Estimate: labor 15 minutes each way	15 Minutes/Account 10 Miles/Account 30 Minutes/Account
4)	Customer notification/Box location and deactivation or collection of funds	15 Minutes/Account
5)	Office log-in/Records update	10 Minutes/Account

FUNCTION	LABOR/FUNCTION	AVERAGE RATE/HOUR	TIME	EXTENSION	TRANSPORT COST MILES    RATE 81cents/mile	
1	Office	\$25.00	10 min	\$4.17		
2	Office	\$25.00	15 min	\$6.25		
3	Field Employee	\$32.60	45 min	\$24.45	10	\$8.10
4	Field Employee	\$32.60	15 min	\$8.15		
5	Office	\$25.00	10 min	\$4.17		
				\$48.19		\$8.10
				Total		\$56.29
				"Turn Off Fee" Say		\$55.00

## TURN ON CHARGE

	FUNCTION	ESTIMATE
1)	Office call/Records check Dispatch Employee	15 Minutes/Account
2)	Employee assignment/Location information	10 Minutes/Account
3)	Transport to site Estimate: 5 miles each way to and from Estimate: labor 15 minutes each way	10 Miles/Account 30 Minutes/Account
4)	Reactivation/Customer home for system check	20 Minutes/Account

FUNCTION	LABOR/FUNCTION	AVERAGE RATE/HOUR	TIME	EXTENSION	TRANSPORT COST	
					MILES	RATE 81cents/mile
1	Office	\$25.00	15 min	\$6.25		
2	Field Employee	\$32.60	10 min	\$5.43		
3	Field Employee	\$32.60	30 min	\$16.30	10	\$8.10
4	Field Employee	\$32.60	20 min	\$10.87		
				\$38.85		\$8.10

Total	\$46.95
"Turn On Fee" Say	\$45.00