VILLAGE OF DOWNERS GROVE REPORT FOR THE VILLAGE COUNCIL MEETING NOVEMBER 2, 2010 AGENDA

| SUBJECT: | TYPE: | | SUBMITTED BY: |
|--------------------------------|-------|------------------------|--------------------------|
| | | Resolution | |
| | | Ordinance | |
| Acceptance of Water Rate Study | ✓ | Motion | Nan Newlon, P.E. |
| Final Report | | Discussion Only | Director of Public Works |

SYNOPSIS

A motion is requested to accept the final report of the Water Rate Study completed by the Municipal & Financial Services Group (M&FSG).

STRATEGIC PLAN ALIGNMENT

The Five Year Plan and Goals include *Exceptional Communication and Services*. A supporting objective of this statement is *Steward of Financial Sustainability*.

FISCAL IMPACT

N/A

RECOMMENDATION

Approval on the November 9, 2010 consent agenda

BACKGROUND

On April 6, 2010 the Village Council authorized award of a contract with M&FSG to complete a water rate study. The goal of the study was to review current and future water rates to ensure adequate funding is available for current operations and maintenance as well as for identified capital maintenance and improvement projects into the future. The findings and recommendations of the study were presented to the Village Council by the consultant at meetings on July 20th, August 17th and September 21st. The presented information was made available to the public on the Village's website for each meeting.

The consultant presented the following key findings and conclusions:

- Based on projected water sales, the Village's current water rates will not produce adequate revenues to cover the costs of operating and maintaining the water system in 2010 or during subsequent years.
- The annual shortfalls under existing rates will exhaust the Village's Water Fund cash balance during 2011.
- There are three main reasons for the revenue shortfalls, which include the following:
 - 1) Annual reductions in water sales. Over the last five years this has directly impacted revenues from water sales since the majority of the water system revenue (about 92.5%) is dependent on water sales.
 - 2) Significant increases in the costs of purchased water. DuPage Water Commission increases have been the primary reason for the increasing costs of operating the water system. It is anticipated that the Village will continue to experience significant annual increases (10% per year) in purchased water costs from the DuPage Water Commission.
 - 3) Water system infrastructure is aging. Based on a review of the age of the water system buried and above ground assets, a significant portion of the water system has reached its useful life. If the Village does not address these assets, it runs the risk of portions of the system failing leading to significant disruptions in water service. To address the aging

water system, the Village will be required to make significant investments in the water system over the next ten to twenty years.

- The level of the required capital investments in the water system will require the Village to issue debt to fund the projects. The use of cash funding for these projects would require triple digit rate increases.
- The Village currently maintains an operating reserve in the Water Fund which is set at a minimum of 90-days of operating expenses. The Village does not currently maintain a capital repair and replacement reserve in the Water Fund.
- The total costs of operating and maintaining the water system are largely fixed at approximately 60%. Under the current rate structure the Village collects approximately 7.5% of its revenues from a fixed minimum bill.
- Water rates and the rate structure should be changed to increase the total revenue by approximately 14% per year for the next three years.

The model that was created as part of the Water Rate Study is owned by the Village and is something that staff can update as more accurate data becomes available. Because this is not a simple undertaking it is likely that staff will maintain some contact with M&FSG in the future to consult on smaller updates to the model.

The Final Water Rate Study Report is being presented for Council's acceptance. A separate action is required to change the water rates.

ATTACHMENTS

Final Report of the Water Rate Study



Final Report October 2010

Village of Downers Grove Comprehensive Water Rate Study Report



Prepared by





Municipal & Financial Services Group

October 6, 2010

Stan Balicki Assistant Director of Public Works Village of Downers Grove 801 Burlington Ave Downers Grove, IL 60515

Dear Mr Balicki:

The Municipal & Financial Service Group is pleased to submit to the Village of Downers Grove the attached Comprehensive Water Rate Study Report Structure Analysis for the Village Water System. The document represents the results of our analysis of the cost of providing water service to the Village's customers and our recommendations for how the Village should recover these costs. The study should provide a clear path forward for the Village to ensure the financial health and stability of the water system.

It has been our distinct pleasure to work with and for the Village. The assistance provided by the Village staff and the participation of the Village Council was essential in the completion of the study. The dedication you and the Council demonstrated to the study process should be acknowledged and was vital to the completion and success of the study. Thank you for the opportunity to work with and for the Village of Downers Grove on this study.

Very truly yours,

David Hyder Project Manager

The Municipal & Financial Services Group

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APPENDIX

Water and Sewer Cost of Service Model consisting of the following schedules:

Schedule 1 – Control Panel

Schedule 2A – O&M Expenses

Schedule 2B – DuPage Water Purchase

Schedule 3 – O&M Reserve

Schedule 4 – Existing Debt Service

Schedule 5 – Capital Improvement Projects

Schedule 6A – Cash Funded Capital Projects

Schedule 6B – Bond Funded Capital Projects

Schedule 7 – Projected Debt

Schedule 8 – Interest Income

Schedule 9 – Miscellaneous Revenues

Schedule 10A – Capital Asset Raw Data

Schedule 10B – Capital Asset Summary

Schedule 11 – 3R Reserve

Schedule 12A – Revenue Requirements

Schedule 12B - Cost Allocation

Schedule 13A – Customer and Consumption Information

Schedule 13B – Winter Bi-Monthly Analysis

Schedule 13C – Customer and Consumption Projections

Schedule 14A – 2008 Rate Reconciliation

Schedule 14B – 2009 Rate Reconciliation

Schedule 14C – 2010 Rate Reconciliation

Schedule 14D – Rate Analysis

Schedule 15 – Water Rate Projections

Schedule 16A – Inside Village Sample Bills

Schedule 16B – Outside Village Sample Bills

Schedule 17 – Capacity Fees

Schedule 18 – Capital Fees

Schedule 19 – Operating Cash Flow

Schedule 20 - Cash Balance

A. EXECUTIVE SUMMARY

This document was prepared to summarize the work performed by the Municipal & Financial Services Group (MFSG) during the water cost of service and rate study authorized by the Village of Downers Grove ("the Village"). The study is predicated on the use of a cash flow analysis to support the pricing of utility services. The cost of service analysis uses a planning period of 10 years (2011 - 2020). This portion of the report summarizes the findings, conclusions and recommendations developed during the course of the study.

1. Findings and Conclusions

The following findings and conclusions were developed during the course of the study.

- Based on projected water sales, the Village's current water rates will not produce adequate revenues to cover the costs of operating and maintaining the water system in 2010 or during subsequent years.
- The annual shortfalls under existing rates will exhaust the Village's Water Fund cash balance during 2011.
- There are several reasons for the revenue shortfalls, which include the following:
 - ➤ The Village has experienced annual reductions in water sales over the last five years which has directly impacted revenues from water sales since the majority of the water system revenue (about 92.5%) is dependent on water sales.
 - The Village has experienced significant increases in the costs of purchased water from the DuPage Water Commission. These increases have been the primary reason for the increasing costs of operating the water system. It is anticipated that the Village will continue to experience significant annual increases (10% per year) in purchased water costs from the Water Commission.
 - Based on a review of the age of the water system buried and above ground assets, a significant portion of the water system has reached its useful life. If the Village does not address these assets, it runs the risk of portions of the system failing leading to significant disruptions in water service. To address the aging water system, the Village will be required to make significant investments in the water system over the next ten to twenty years.
- The level of the required capital investments in the water system will require the Village to issue debt to fund the projects. The use of cash funding for these projects would require triple digit rate increases.
- The Village currently maintains an operating reserve in the Water Fund which is set at a minimum of 90-days of operating expenses. The Village does not currently maintain a capital repair and replacement reserve in the Water Fund.

• The total cost of operating and maintaining the water system are largely fixed at approximately 60%. Under the current rate structure the Village collects approximately 7.5% of its revenues from a fixed minimum bill.

2. Recommendations

The following recommendations were developed during the course of the water rate study. The recommendations are presented to the Village Staff and Council for consideration and adoption.

- We recommended that the Village adopt a repair, renewal and replacement reserve (3R) reserve within the Water Fund to accumulate funds to allow for investment in replace and replacement of the aging water system.
- We recommend that the Village modify the current working capital (O&M) reserve to be based on 90-days of operating expenses rather than operating revenues.
- During the course of the study a number of rate alternatives were developed, based on discussion with Village Staff and our industry expertise we recommend the following rates effective in 2011.

Alternative B - Fixed Charge

| Bi-Monthly Fixed Charge | 2011 | 2012 | 2013 |
|-------------------------|----------|------------|------------|
| 5/8" | \$8.25 | \$9.31 | \$10.50 |
| 1" | \$12.40 | \$13.96 | \$15.75 |
| 1 ½" | \$41.25 | \$46.53 | \$52.52 |
| 2" | \$66.00 | \$74.45 | \$84.02 |
| 3" | \$123.70 | \$139.59 | \$157.55 |
| 4" | \$206.15 | \$232.66 | \$262.58 |
| 6" | \$412.30 | \$465.31 | \$525.15 |
| 10" | \$989.50 | \$1,116.75 | \$1,260.36 |

Alternative B - Usage Rate

| | 2011 | 2012 | 2013 |
|--------------------------------------|--------|--------|--------|
| Usage Rate per CCF – Inside Village | \$3.30 | \$3.73 | \$4.25 |
| Usage Rate per CCF – Outside Village | \$3.80 | \$4.34 | \$4.95 |

• The recommended rate alternative will generate 14% more revenue in 2011. To allow revenues to catch up with water system operating and maintenance expenses we recommend the Village annually increase water rates as shown below.

Proposed Annual Revenue Increases

| | 2011 | 2012 | 2013 | 2014 | 2015 |
|-------------------|------|------|------|------|------|
| Revenue Increases | 14% | 14% | 14% | 10% | 9% |

• The Village currently imposes a number of capital fees intended to recover the cost of providing water service to a new customer. Based our discussions with the Village Staff and our review of the fees we recommend the following capital fees be adopted by the Village effective in 2011.

Current and Recommended Tap Fees

| Line Size | Current | 2011 | 2012 | 2013 | 2014 | 2015 |
|-----------|---------|-------|-------|-------|-------|-------|
| 1" | \$200 | \$230 | \$240 | \$250 | \$260 | \$270 |
| 1 1/2" | \$250 | \$370 | \$380 | \$390 | \$400 | \$410 |
| 2" | \$325 | \$425 | \$440 | \$450 | \$460 | \$470 |
| Over 2" | \$400 | \$590 | \$610 | \$630 | \$650 | \$670 |

Current and Recommended Meter Charges

| Meter Size | Current | 2011 | 2012 | 2013 | 2014 | 2015 |
|-------------------|---------|---------|---------|---------|---------|---------|
| 5/8" or 3/4" | \$250 | \$260 | \$270 | \$280 | \$290 | \$300 |
| 1" | \$325 | \$370 | \$380 | \$390 | \$400 | \$410 |
| 1 1/2" | \$400 | \$1,500 | \$1,550 | \$1,600 | \$1,650 | \$1,700 |
| 2" | \$500 | \$1,780 | \$1,830 | \$1,880 | \$1,940 | \$2,000 |
| 3" | - | \$2,940 | \$3,030 | \$3,120 | \$3,210 | \$3,310 |
| 4" | - | \$3,900 | \$4,020 | \$4,140 | \$4,260 | \$4,390 |
| 6" | - | \$6,240 | \$6,430 | \$6,620 | \$6,820 | \$7,020 |

Current and Recommended Capacity / Connection Fees

| Line Size | | Proposed | | |
|-----------|-----------------------|--------------|----------|--------------|
| | Connection Fee | Capacity Fee | Total | Capacity Fee |
| 1" | \$1,900 | \$600 | \$2,500 | \$2,100 |
| 1 1/4" | \$- | \$- | \$- | \$2,300 |
| 1 1/2" | \$2,200 | \$600 | \$2,800 | \$5,200 |
| 2" | \$2,400 | \$600 | \$3,000 | \$10,300 |
| 4" | \$2,900 | \$600 | \$3,500 | \$16,500 |
| 6" | \$6,500 | \$600 | \$7,100 | \$31,000 |
| 8" | \$11,800 | \$600 | \$12,400 | \$51,600 |
| 10" | \$18,300 | \$600 | \$18,900 | \$103,200 |
| 12" | \$26,300 | \$600 | \$26,900 | \$247,600 |

- We recommend that the Village adopt the proposed capacity fees shown above for lines sizes
 1" 2" but we recommend that lines exceeding 4" be negotiated based on the discretion of the
 Village Public Works Director, to allow for consideration of factors such as economic
 development impact.
- The Village currently imposes a number of ancillary service fees related to providing water service. The fees were reviewed with Village Staff to determine if they recover the costs associated with providing each service. The majority of the fees do recover the costs, our only recommendation regarding the current fees is that the after-hours disconnect/reconnect fee be increased from \$55 to \$75 to encourage the use of normal business hours.

• Based on the review of the ancillary service fees, several additional fees were identified that will recover the cost of providing various services related to the water system. We recommend that the Village adopt the following new service fees.

| Service | Proposed |
|--|---------------------------------|
| Public Hydrant Usage Charges | |
| Water Usage Fee | \$5.50 per CCF |
| Water Fill Up Fee | \$5 per fill up at Public Works |
| Damage to Hydrant Meter, Fire Hydrant or R.O.W | Actual Cost |
| | |
| New Water Service | |
| Meter Installation and MTU | \$60 |
| | |
| Service Disconnect | |
| Damaged Meter or Missing MTU | Actual Cost |

B. BASIS FOR THE STUDY

1. Background

The Village of Downers Grove ("the Village") provides clean, safe and reliable water service to residents and commercial establishments in and around the Village. The water system serves a residential population of approximately 50,000 with a service area that includes all areas within the Village limits and a limited area outside the Village. The primary source of water supply for the Village is from the DuPage Water Commission ("the Water Commission"). The Water Commission is supplied with water from the City of Chicago which draws water from Lake Michigan. The Village has invested significant capital to develop the water system which consists of the following major components:

- 7 elevated storage tanks with a total storage volume of 8 million gallons,
- 6 rate control stations which control the flow of water in the distribution system,
- 200+ miles of water distribution mains that range in diameter from 4 to 24 inches (approximately the distance from the Village to Milwaukee and back),
- 2,600 public fire hydrants,
- 2,700 main line distribution valves and
- Supervisory Control and Data Acquisition System (SCADA) that monitors, records and controls the operations of the water system.

The Village does not operate or maintain water treatment facilities but does maintain four backup wells. The wells are not able to meet the total water system demands and therefore serve as emergency backup supply.

As an enterprise fund, the Village does not rely on tax revenues to support the water system operations. The Water Fund is solely dependent on user charges and fees to fund its operations, maintenance and long-term obligations related to the water system. Similar to most municipal water utilities around the country, the Village operates a water system in an environment that presents continual challenges. The need for capital investment in the water system and the ongoing increases in the cost of purchased water from the Water Commission are currently placing significant pressure on the water system finances. These two factors will continue to impact the system for the foreseeable future and therefore at this time it is necessary to develop a detailed forecast of the true cost of operating and maintaining the water system to establish the appropriate level of rates, fees and charges to ensure the continued financial health and stability of the Water Fund.

2. Scope of Work

The scope of services set forth in the contract between the Village of Downers Grove and the Municipal and Financial Services Group ("MFSG") specifies several related tasks:

- **Revenue Requirements** Determine the true cost of providing water service by developing comprehensive revenue requirements for the water system.
- Cost of Service and Financial Plan Perform a cost of service analysis to determine appropriate cost allocations and develop a financial plan for the Village to ensure that water rates, fees and charges provide adequate revenues over the projection period.
- Rate Design Design a water rate structure that appropriately allocates costs among the Village's customers based on the Village's goals and objectives, specifically addressing water conservation and revenue stability.
- **Customer Impacts** Document the impact of various rate designs on Village customers to assist in development of recommended rate alternative.

3. Assumptions Used in the Study

The following guiding principles were used to guide the cost of service and rate study and were developed with the assistance of the Village Staff:

- The water system must each be self-supporting. It is assumed that the cost of operating and maintaining the water system must be supported by the water fees and charges collected from water customers.
- One of the Village's principal objectives is to keep rates and fees low over time. It is possible to keep rates low for a period of time by not investing sufficiently in the maintenance of the water system but eventually the system will deteriorate and require substantial investments leading to the need for significant and immediate rate increases. The assumption that the Village will continually reinvest in the system is built into the analysis and allows for timely and predicable rate increases.
- The Village should develop reserves to provide for contingencies and unplanned expenses.
- The expenses related to operating and maintaining the water utility should be equitably distributed among the users of the respective systems.

In addition to the guiding principles for the study, it is necessary to make several assumptions regarding future economic conditions and growth within the Village's service area, to project future revenue requirements and offsetting revenues from water rates. Assumptions (which can be varied as needed from year to year) made regarding various items are shown below:

| <u>Element</u> | <u>Assumption</u> |
|--------------------------------------|-------------------|
| Inflation Rate – Water O&M Expenses | 3.0% per year |
| Inflation in Cost of Purchased Water | 10.0% per year |
| Customer Growth Rate | 0.0% per year |
| Consumption Growth Rate | (-1.0%) per year |

Interest Rate on Borrowing 5.0%

Debt Maturity 20 years

Interest Earned on Investments 3.0% per year

Administration Costs on Financing 1.5% of principal

The study was conducted using the adopted budget for Fiscal Year 2010 (the Village functions on a fiscal year of January 1 to December 31) as the base year upon which forecasted figures were developed. The cost of service analysis considers what water rates need to be for the entire planning period (2011 - 2020).

These assumptions were used after discussions with the Village's Staff, utilizing our experience and the Staff's knowledge of its customer base and historical costs. The estimated decline in water consumption is based on historical trends of declining water sales over the past decade.

The Village Staff should monitor the assumptions used in the model over the forecast period. The Village should collect, on an annual basis, the following data items so that it can maintain the financial model and facilitate future rate studies.

- Annual number of new customers by meter size.
- Identification and classification of customers by customer class.
- Monitor customer class usage.
- Collect information on performance of water lines to assist with useful life estimates.

C. USAGE, DEMAND AND CUSTOMER ANALYSIS

To complete the cost of service and rate study it is necessary to gain an understanding of the make up of the customer base served by the Village including the number of customers by type and how customers use water. The following section provides an overview of this analysis.

1. Customer Counts

In 2009, the Village's water system customer base included 16,132 billed customers consisting of 14,546 single-family residential customers, 628 multi-family residential customers, 872 commercial customers and 86 industrial customers. The Village bills all customers on a bi-monthly basis. The Village provides water service to customers located outside of its corporate limits including to areas within Knottingham and Westmont. The following table provides a breakdown of the Village customers by location and customer class.

Table 1 - Village Water Customers

| | Single-Family Residential | Multi-Family Residential | Commercial | Industrial |
|------------------------|------------------------------|-----------------------------|------------|------------|
| Inside Village | 13,031 | 612 | 852 | 86 |
| Outside Village | 1,194 | 16 | 20 | - |
| Knottingham | 249 | - | - | - |
| Westmont | 72 | - | - | - |
| Total Customers | 14,546 | 628 | 872 | 86 |

The customer classes shown in Table 1 are based on the Village's current customer classifications. It should be noted that for presentation purposes the commercial customer class has been consolidated to include offices, restaurants, churches and schools.

For purposes of evaluating alternative rate structures it is necessary to determine the number of customer by meter size. Table 2 shows the current number of customers located inside and outside the Village (excluding Knottingham and Westmont customers since the Village does not dictate their rate structures).

Table 2 - Village Water Customer Meter Sizes

| Meter Size | Single-Family Residential | Multi-Family Residential | Commercial | Industrial |
|------------------------|------------------------------|-----------------------------|------------|------------|
| 5/8" | 13,420 | 191 | 328 | 13 |
| 1" | 737 | 80 | 111 | 14 |
| 1 ½" | 62 | 151 | 167 | 26 |
| 2" | 5 | 145 | 135 | 23 |
| 3" | 1 | 37 | 64 | 10 |
| 4" | - | 20 | 58 | - |
| 6" | - | 4 | 8 | - |
| 10" | - | 1 | 1 | - |
| Total Customers | 14,225 | 628 | 872 | 86 |

Table 2 demonstrates that the majority of the Village customers have a 5/8" meter which is the standard residential meter size. The use of the various meter sizes is discussed in detail in the rate alternative section of the report.

As mentioned in the previous section of the report, it is assumed that the Village will not experience growth in its customer base and therefore the current number of customers will remain constant throughout the planning period.

2. Consumption Data

The Village sold approximately 1.82 billion gallons of water to its customers during 2009. The water sales in 2009 continued a downward trend over the last few years. Water sales decreased significantly between 2005 and 2006 but then rebounded slightly in 2007. The last two years, 2008 and 2009, have trended downward. It is estimated that a portion of these declines in water usage is due to weather. The region has experienced unusually wet years over the last few years. However based on our experience nationally, individuals are using less and less water due to conservation efforts and water using fixture replacement. For purposes of forecasting future water sales, as discussed earlier in the report, it is assumes that a gradual reduction in water sales will continue at an annual rate of (-1.0%). Exhibit 1 presents the last five years of water sales and our estimate of water sales for the planning period.

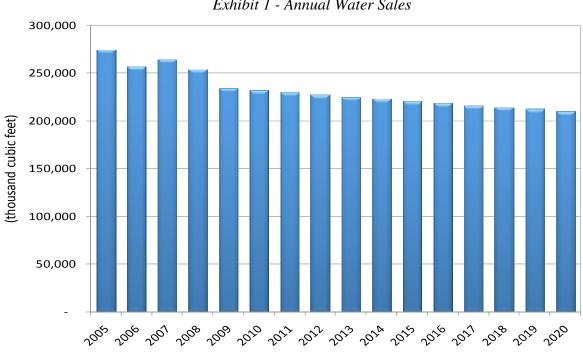
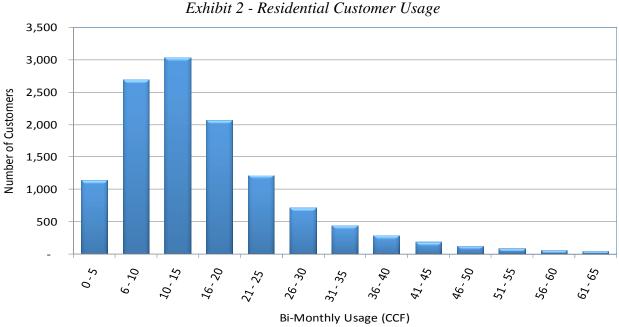


Exhibit 1 - Annual Water Sales

It is important to note that since the Village generates the vast majority of its revenues (approximately 92.5%) from the sale of water. As a result, the ongoing reduction in water sales impacts the ability of the Village to fund the operations and maintenance of the system. In general, if the Village experiences a 1% reduction in water sales it will experience about a 1% drop in revenues. In other words, to just keep revenues flat over a period of declining water sales the Village is forced to increase rates or cut costs.

In addition to examining overall water usage trends, to evaluate alternative rate structures it is necessary to review water usage patterns for various customer types within the Village system. Exhibits 2 and 3 show the break-down of customer usage by bi-monthly period for residential and non-residential customers.



Bi-Monthly Usage (CCF)
Exhibit 2 shows that the majority residential customers use between 10 - 15 hundred cubic feet (CCF) per bi-monthly period, with the average usage at about 12 CCF. The exhibit demonstrates that customers use below the average and that a small number of customers use well above the average. It should be noted that the exhibit presents only single-family residential customers as defined by the Village.

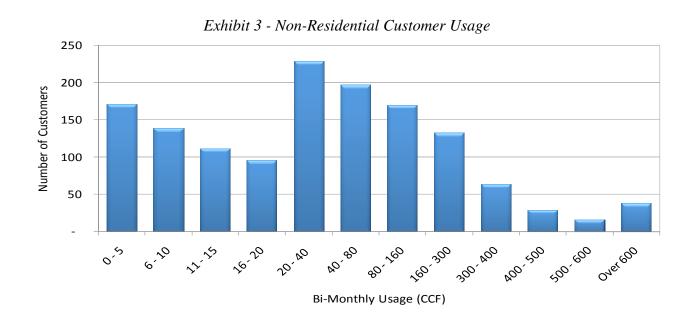


Exhibit 3 shows that the largest number of non-residential customers use between 20 and 40 CCFs per bi-monthly period. However, the distribution of customer usage is not as clearly bell-shaped as demonstrated in the residential usage. This is not surprising given the wide range of types of water users represented in the non-residential customer class. Non-residential customers include commercial, industrial and multi-family residential.

As mentioned previously, one of the key objectives for the rate study was the development and consideration of conservation rate structures. Conservation rate structures are developed to encourage the wise use of water, which typically is focused on reducing the non-discretionary use of water. Non-discretionary water use is most often defined as water used outside the home or business which is not required for actives considered essential for public health and safety. Given the climate for the Village (cold winters), it is safe to assume that most non-discretionary occurs in the spring, summer and fall. Therefore review of the usage of water in the winter compared to the summer provides insight into the seasonal peaking that occurs in the Village system. Exhibit 4 shows the average residential, commercial and industrial customers winter and summer water usage, for 2008 and 2009.

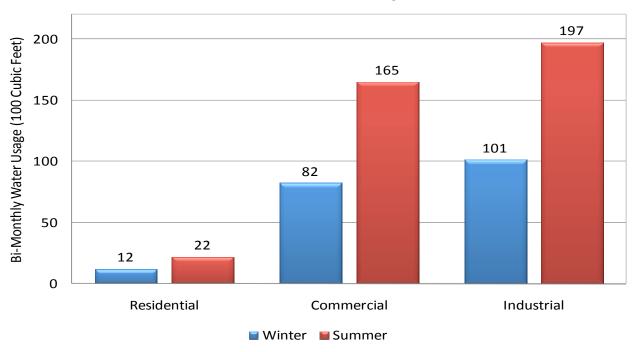


Exhibit 4 - Seasonal Customer Usage Patterns

Exhibit 4 shows that there are certainly seasonal variations for all customer classes. For purposes of the exhibit commercial includes multi-family due to the similarity in seasonal usage patterns. For each customer class there is about a 2 times peaking factor in average usage, which equates to a substantial amount of non-discretionary use. On average each customer uses almost twice as much water in the summer as compared to the winter. The analysis shown in Exhibit 4 was completed for 2008 and 2009 which were unusually wet years. Therefore it is assumed that during a dry summer the peaking would be even more substantial. These usage patterns certainly warrant the examination of water conservation rate structures.

D. REVENUE REQUIREMENTS

The next step in the cost of service and rate study was to identify the cost of providing water service,

the revenue requirements. Our approach includes a detailed review of each of the costs incurred by the Village (both identified and unidentified) to ensure a true cost of service is developed. The revenue requirements can be broken down into four main categories of costs including; operating and maintenance costs, capital improvements, existing debt service contributions to reserves. The following section of the report describes each of the categories of expenses incurred by the Village as it provides water service. The costs are all based on official documents and data provided by the Village. The costs are forecasted as described above in the assumptions.



1. Operating and Maintenance Costs

The Water Fund day-to-day operating and maintenance (O&M) expenses are budgeted in four major categories including water billing/customer service, water administration, pumping and treatment and water distribution. The actual O&M expenses for 2007, 2008 and 2009, the adopted 2010 expenses and estimated budget for 2011 were used as the basis for estimating future operating and maintenance expenses. For the years 2012 through 2020, the majority of O&M expenses were inflated by 3.0% per year. The cost of purchased water, included in the pumping and treatment category, was inflated by 10% per year. Table 3 presents the O&M expenses forecasted over the next five years.

Table 3 - Water O&M Expenses

| | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------|-------------|-------------|-------------|--------------|--------------|
| Billing / Customer Service | 204,158 | 210,283 | 216,591 | 223,089 | 229,781 |
| Administration | 1,739,346 | 1,791,526 | 1,845,272 | 1,900,630 | 1,957,649 |
| Pumping and Treatment | 327,664 | 357,999 | 388,569 | 400,226 | 412,233 |
| Distribution | 1,609,539 | 1,674,481 | 1,740,621 | 1,792,840 | 1,846,625 |
| Water Purchase | 4,300,000 | 4,730,000 | 5,203,000 | 5,723,300 | 6,295,630 |
| Total O&M Expenses | \$8,180,707 | \$8,764,289 | \$9,394,053 | \$10,040,085 | \$10,741,918 |
| Annual % Increase | 4.0% | 7.1% | 7.2% | 6.9% | 7.0% |

Table 3 demonstrates that overall operating expenses are anticipated to increase at around 7% per year over the projection period. The primary reason for the significant increases is a result of the estimated continued increase in the cost of purchased water from the Water Commission. Exhibit 5, shown below, presents the estimated O&M expenses over the entire planning period.

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Exhibit 5 - Operating and Maintenance Expense Forecast

Exhibit 5 shows that the purchases of water from the Water Commission represent approximately 50% of the total O&M expenses in 2010. However by the end of the planning period, water purchases represent about 66% of the total O&M expenses. The historical increases in water purchase costs have been one the primary reasons for increasing cost of operating the water system and as demonstrated in Exhibit 5 this is expected to continue to be the case over the next 10 years.

2. Capital Costs

The ownership of a water system of the size and age of the Village system is extremely capital-intensive. The Village has invested millions of dollars in constructing and maintaining the water system as it stands today. Much of this investment occurred in the 1920's and 1950's as the Village grew and developed. Over the next several decades large portions of the system will have been in the ground for over 100 years. The on-going funding of recent capital investments and future requirements has a significant impact on water rates. While the capital investments have a pronounced impact on rates, the projects are vitally important to ensure the continued operation of the water system. The Village could keep rates low initially by not maintaining the system but would pay a significant price later as system failures spike due to a lack of system maintenance, which would then result in increased costs and ultimately the need for even higher rate increases. Proactively managing of the water system through maintenance and capital investments allows the Village to keep rates stable and lower over time.

The following section of the report presents the capital costs for the water system.

2.1 Existing Debt

The Village Water Fund currently has approximately \$1.4 million in principal outstanding debt. The debt consists of one issue that was used to fund the purchase and installation of the water systems automated meter reading (AMR) system. The debt will be fully paid off in 2012. Table 4 show the annual principal and interest payments for the outstanding debt.

Table 4 - Existing Debt Service

| | 2010 | 2011 | 2012 |
|-------------------|-----------|-----------|-----------|
| Principal Payment | \$450,000 | \$470,000 | \$485,000 |
| Interest Payment | \$53,708 | \$33,003 | \$11,155 |
| Total Due | \$503,708 | \$503,003 | \$496,155 |

2.2 Capital Projects

The Village's water system has planned capital projects totaling approximately \$20 million for the period from 2011 through 2016. At this time the Village does not have planned capital projects for 2017 through 2020. The following table presents the planned capital projects for the system based on type of project.

Table 5 - Water System Planned Capital Projects

| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|----------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| Water Main Replacement | \$125,000 | \$5,640,000 | \$2,340,000 | \$2,925,000 | \$3,900,000 | \$0 |
| Water Meter Replacement / AMR | \$60,000 | \$825,000 | \$660,000 | \$600,000 | \$0 | \$0 |
| Water Tank Maintenance | \$100,000 | \$200,000 | \$0 | \$0 | \$1,700,000 | \$1,750,000 |
| SCADA | - | \$120,000 | 1 | 1 | - | - |
| Total | \$285,000 | \$6,785,000 | \$3,000,000 | \$3,525,000 | \$5,600,000 | \$1,750,000 |

It should be noted that the timing of the capital projects presented in Table 5 was developed based on the ability of the Village to fund the capital projects. Historically, the Village has used cash derived from operations (pay-as-you-go) to fund capital project, as evidence by the limited amount of outstanding debt service within the Water Fund. If the Village attempts to cash fund the project listed in Table 5, water rates will need to increase close to 100% over the next few years. This will certainly lead to rate shock within the customer base. Therefore, given the capital needs we recommend that the Village debt fund at least a portion of the capital improvements plan. Financing water system capital infrastructure is common practice within the industry for a number of reasons including:

- Water infrastructure consists of assets that will be used for a long period of time (40 to 70 years). The use of debt better matches the use of the asset with the recovery of the cost of the asset.
- The use of only cash to fund capital projects often results in the delay or deferral of project due to limited resources. This often results in significant deferred system maintenance because the utility resorts to a reactive approach to capital projects.
- The cost of financing is relatively low for local governments.

Due to the impact on water rates, we recommend that the Village consider financing capital projects when the individual project or combined projects exceed \$1.0 million in any particular year. Over time the Village should reevaluate these guidelines as costs and revenues increase. Applying these guidelines to the capital projects listed in Table 5 results in the following cash and debt financing plan for the next five years.

Table 6 - Capital Project Financing

| | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------|-----------|-------------|-------------|-------------|-------------|
| Cash Funded Projects | \$285,000 | \$933,300 | \$660,000 | \$600,000 | \$500,000 |
| Bond Funded Projects | \$0 | \$5,851,700 | \$2,340,000 | \$2,925,000 | \$5,100,000 |
| Total | \$285,000 | \$6,785,000 | \$3,000,000 | \$3,525,000 | \$5,600,000 |

Based on discussions with the Village Staff, it is assumed that the bond funded water system projects will be funded through two bond issues consistent with the Village's overall plan for issuing new debt. It is assumed that the Village will issue debt in 2012 and 2015. The 2012 issue will fund water system capital projects in 2012, 2013 and 2104 which total approximately \$11.2 million. The 2015 issue will fund water capital projects in 2015 and 2016 and total \$6.8 million. The 2015 is tentative as additional project may be identified in 2016 and subsequent years.

2.3 System Reinvestment

As mentioned above, the Village has invested millions of dollars to construct and maintain the water system. As the water system ages, it is important that the Village actively manage these assets to ensure that the useful live of the water system is maximized.

To assist the Village in managing its capital assets, MFSG completed a review of the water system buried infrastructure and above ground assets. The goal of the review is to provide the Village with an estimate of the annual investment required in the system to appropriately maintain the system and strive towards maximizing the assets useful life. As part of the system asset review, the ages and costs of various portions of the water distribution system were stratified by decade. The age groupings of the distribution system together with useful life information and unit replacement costs were used to estimate the required reinvestment in the water system. Based on information from Village Staff and industry estimates, water lines in the Village system are estimated to have useful lives of approximately 70 years. It should be noted that this is a longer period than the Village uses for calculating depreciation but is more representative of reality. It was assumed that water system structures and improvements including water storage facilities have useful lives of approximately 60 years. The following exhibits show the estimated replacement costs and decade of replacement for buried and above ground assets.

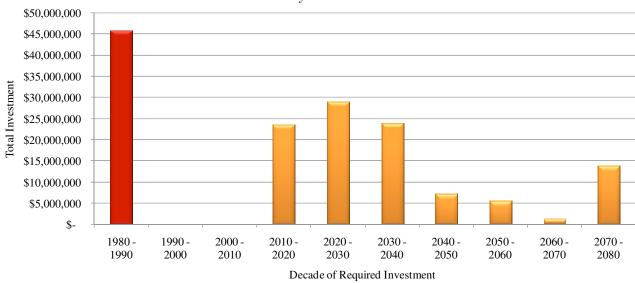


Exhibit 6 - Water System Buried Asset Review

Exhibit 6 demonstrates that the Village has approximately \$45 million (in 2010 dollars) worth of buried assets that have already exceeding their useful life, based on an assumed useful life of 70 years. The replacement value is calculated by taking the original cost of the buried assets by installation year and trending them to current dollars using the Engineer New Record (ENR) construction cost index. These assets consist of water main installed in the 1920's. The exhibit also demonstrates that over the next 30 years a significant portion of the remaining buried infrastructure will reach its useful life. Exhibit 7, below, shows the same analysis for above ground assets such as water storage tanks.

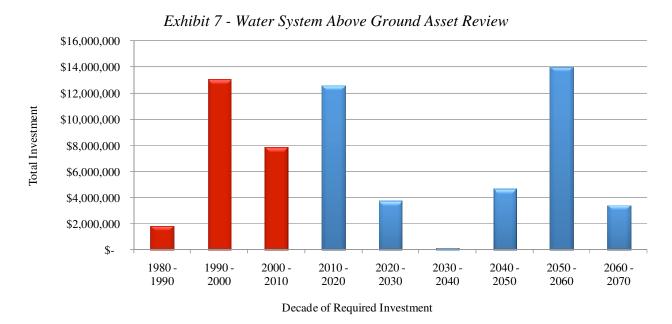


Exhibit 7 shows that the Village has approximately \$24 million worth (in 2010 dollars) of above ground assets that have reach their useful lives. It should be noted that the useful life of 70 years and 60 years for buried and above ground assets are theoretical values which are used as a proxy, as

evidence by the fact that a large portion of the Village water mains are well beyond 70 years old and still functioning. However, these assets should be considered a liability because at some point they will fail which will result in significant service interruptions and the need for emergency repairs and/or replacements. We recommend that the Village take proactive steps to address these assets such as developing a "Repair, Replacement and Rehabilitation (3R) Reserve" which is intended to assist in dedicating funds for replacement of system assets.

3. Reserves

Best management practices dictate that cash reserves be accumulated to provide for contingencies and unplanned major expenses. We recommend the establishment and/or maintenance of two types of reserves for the Village's water system: an Operating and Maintenance ("O&M") Reserve and a Repair, Renewal, and Rehabilitation ("3R") Reserve. Each is discussed below.

3.1 Operating Reserve

An operating reserve is important to provide funds for unplanned minor repairs or fluctuations in the budget. This type of reserve is also valuable during unusually wet or dry years, which could result in reduced revenues due to lower than anticipated consumption levels. As these reserves are accumulated, they can be used in future years to offset, decrease or defer rate increases. Operating reserves are typically established as a percentage of a system's O&M budget. The Village currently maintains an O&M reserve that is based on 90 days of operating revenues. This closely mirrors our recommended target with the exception that we recommend a balance of 90-days of operating expenses rather than revenues. We recommend targeting expenses because revenues have a circular relationship with rates (i.e. if the reserve target is not met, rates may need to be increased which increases revenues which increases the reserve target). The Village currently has reserves exceeding the target balance. However due to expenses exceeding revenues in the current year by the end of the year (2010) beginning in 2011 the cash balance will drop below the 90-days of operating expenses and a contribution will be required in 2011. To minimize the impact on rates we recommend capping the contribution to \$100,000.

3.2 Repair, Replacement and Rehabilitation Reserve

Many municipal utilities establish Repair, Replacement and Rehabilitation ("3R") reserves to provide funds to pay for unexpected major repairs and planned replacement or rehabilitation of system assets, as mentioned in the previous section. These reserves can be used to pay for capital costs in order to avoid or minimize the amount that would otherwise be recovered through user fees (and possibly result in a significant rate increase). Typically, the annual "3R" reserve contribution is calculated based on the estimated useful life of each asset as described in the previous section of this report. The "3R" contribution is offset by the actual amount of investment planned by the Village in its capital improvement program, as shown in Table 5. We recommend that the Village take a 20-year rolling average of the calculated annual "3R" Reserve contributions for both the buried and above ground infrastructure to even out rate increases and mitigate rate shock caused by varying annual required reinvestment values. The following exhibit presents the recommended annual contribution to the 3R Reserve.

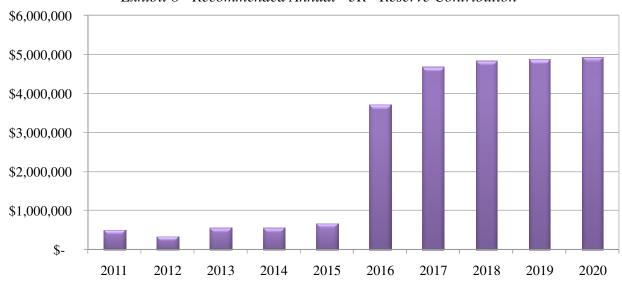


Exhibit 8 - Recommended Annual "3R" Reserve Contribution

Exhibit 8 presents the recommended annual contribution to the 3R Reserve. The reason for the significant spike in contributions beginning in 2016 is due to the fact that the Village does not have planned capital projects for these years and the contribution is a rolling average what the Village should be spending (per the asset review) compared with what is planned to be spent (per the capital improvements plan). Once the Village develops capital projects for these out-years the recommended contribution will be reduced.

4. Revenue Requirements

The gross revenue requirements (that is, the total cash needed for the water and sewer systems) can be classified into two major categories:

1. Operating Costs:

Operating and Maintenance Expenses (day to day operations)
O&M Reserve Contributions

2. Capital Costs:

Existing Debt Service (annual principal and interest payments) Projected New Debt Service

Cash-funded Capital Projects

"3R" Reserve Contributions

The following table shows the revenue requirements, miscellaneous (non user charges) revenue and the net revenue requirement from user rates for water system.

Table 7 - Water System Revenue Requirements

| | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---------------|---------------|---------------|----------------|----------------|
| Operating Expenses | 8,180,707 | 8,764,289 | 9,394,053 | 10,040,085 | 10,741,918 |
| Operating Reserve Contr. | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 |
| Operating Expenses Subtotal | 8,280,707 | 8,864,289 | 9,494,053 | 10,140,085 | 10,841,918 |
| Existing Debt Service | 503,003 | 496,155 | - | - | |
| Cash Funded Cap. Projects | 285,000 | 933,300 | 660,000 | 600,000 | 500,000 |
| Projected Debt Service | - | - | 905,413 | 905,413 | 905,413 |
| 3R Reserve Contribution | 489,223 | 333,867 | 547,201 | 547,201 | 439,427 |
| Total Revenue Requirement | 9,557,933 | 10,627,611 | 11,606,667 | 12,192,699 | 12,686,759 |
| Less Miscellaneous Revenue | 414,170 | 421,917 | 428,542 | 441,057 | 482,466 |
| Net Revenue Requirement from Rates | \$9,143,763 | \$10,205,695 | \$11,177,783 | \$11,751,597 | \$12,204,803 |
| Projected Revenue with Current Rates | \$7,573,804 | \$7,498,066 | \$7,423,085 | \$7,348,855 | \$7,275,366 |
| Net Surplus (Shortfall) | (\$1,569,959) | (\$2,707,629) | (\$3,754,698) | (\$4,402,743) | (\$4,929,437) |
| Water Fund End of Year Cash Balance | (\$386,184) | (\$3,093,812) | (\$6,848,510) | (\$11,251,253) | (\$16,180,690) |

Table 7 demonstrates that the current water rates will not generate sufficient revenue to cover the revenue requirements in 2011 or during subsequent years. The table also demonstrates that the cash balance within the Water Fund will be exhausted in 2011. Exhibit 9 presents the revenue requirements and the revenues with current rates over the next five years.

Exhibit 9 - Current Revenues and Revenue Requirements \$14,000,000 \$12,000,000 \$10,000,000 \$8,000,000 \$6,000,000 \$4,000,000 \$2,000,000 \$0 2010 2011 2012 2013 2014 2015 -Net Revenue Requirements Total Revenues under Current Rates

E. FINANCIAL PLAN AND COST ALLOCATION

The development of revenue requirements in the previous section of the report, demonstrates that annual amount of revenue that needs to be generated from rates and fees to ensure that the Water Fund is self-supporting. The following section of the report reviews the required increases in rate necessary to cover the revenue requirements as a proposed financial plan and examines the allocation of costs between those that are fixed and variable to assist in the review and development of alternative rate structures.

1. Financial Plan

As demonstrated in the previous section of the report, the water system will not be self-supporting (revenues will not to cover revenue requirements) in 2010 nor will revenues cover expenses during the subsequent years. To immediately address the shortfall the Village would be required to increase rates fairly dramatically. The breakeven rate increases are shown below.

Table 8 - Water Revenue Adjustments - Breakeven Rates

| | 2011 | 2012 | 2013 | 2014 | 2015 |
|-------------------------------|------|------|------|------|------|
| Water System Revenue Increase | 22% | 19% | 6% | 6% | 6% |

In an effort to smooth the rate increases and address the shortfalls we propose that the Village consider adjusting water rates over a multi-year period. The recommended annual increases in the water revenues are shown in the following table.

Table 9 - Water Revenue Adjustments - Financial Plan

| | 2011 | 2012 | 2013 | 2014 | 2015 |
|-------------------------------|------|------|------|------|------|
| Water System Revenue Increase | 14% | 14% | 14% | 10% | 9% |

The proposed revenue increases will allow revenues to catch up to expenses over the next five years. The multiple year increases are proposed to minimize the one-time impact on customer bills. As a result even with the increases shown in Table 8, the Village will use some cash reserves over the next three years as rates are increased. The increases will not result in revenues matching expenses in the first three years. Additional increases will be required in years 2016 - 2020, based on our forecast of revenue requirements for the Water Fund. However, the magnitude of the rate increases will be influenced by a number of factors such as the level of capital investment, purchased water costs from the Water Commission, declining water sales and overall inflation in O&M expenses. The following table presents the estimated cumulative cash balance in the Water Fund based on adoption of the revenue increases shown in Table 9.

Table 10 - Water Fund Ending Cash Balance

| | 2011 | 2012 | 2013 | 2014 | 2015 |
|--|-------------|-------------|-------------|-------------|-------------|
| Water Fund End of Year Cash Balance | \$1,216,389 | \$1,148,883 | \$1,583,457 | \$2,429,017 | \$3,666,748 |

It should be noted that the Village started 2010 with a total Water Fund cash balance of approximately \$2.3 million. The Water Fund will experience a significant loss in 2010 (approximately \$1.1 million) and will build the fund balance back over the next five years.

2. Cost Allocation

To develop and consider alternative rate structures it is necessary to understand how the Village incurs costs while providing water service to its customers. In particular, what costs of operating the system are fixed (i.e. don't vary with volume of water sold) and those that are variable (dependent on the actual volume of water delivered to customers). To examine the allocation of costs each of the building blocks of the revenue requirements (cost components included in Table 6 in the previous section) were examined.

The allocation of revenue requirements between fixed and variable was completed by considering which expenses are dependent on the actual delivery of water. This is fairly straight forward when considering capital costs. The Village is required to meet its debt service obligations regardless of water sales. Additionally, the volume of water sold will not have any impact on the planned cash funded or bond funded capital projects. This would not be the case if the Village was contemplating expansion related capital projects due to growth in customers and water demand but all projects in the CIP are repair and replacement type projects. The volume of water sold will also not impact the need for operating and 3R reserve contributions. Therefore all capital expenses are assumed to fixed.

Unlike capital costs, operating expenses do vary based on the volume of water sold. To determine the fixed versus variable portion of the operating expenses each line item within the operating budget was reviewed based on our knowledge of whether or not the expense is dependent on the amount of water used or is dependent on the potential demand the customers place on the system. The Water Fund operating budget is broken into four operating categories including, administration, water billing/accounting, treatment and pumping and water distribution. Operating expenses within administration and water billing/account are assumed to be fixed. The Village must manage and oversee the water system and send bills to customer regardless of water usage. The other two categories of expenses will vary with water usage. The key budget items that were deemed variable include overtime, a portion of water purchases, utilities and supplies. The most significant variable expenses include the purchase of water from the Water Commission. However this expense is not completely variable due to the fact that based on the agreement with the Water Commission, the Village is required to pay approximately 17% of the total purchased water expenses regardless of water taken from the Commission.

The methodology discussed above was applied to the 2011 revenue requirements to determine the portion of costs that are fixed and those that are variable. Table 11 presents the costs allocation and the resulting percentage breakdown.

Table 11 - Fixed vs. Variable Cost Allocation

| | Fixed Costs | Variable Costs | % Fixed | % Variable |
|--------------------------------|-------------|----------------|---------|------------|
| Operating Expenses | \$4,499,389 | \$3,681,318 | 55% | 45% |
| Operating Reserve Contribution | \$100,000 | \$ - | 100% | 0% |
| Existing Debt Service | \$503,003 | \$ - | 100% | 0% |
| Cash Funded Capital Projects | \$285,000 | \$ - | 100% | 0% |
| Projected Debt Service | \$ - | \$ - | 100% | 0% |
| 3R Reserve Contribution | \$489,223 | \$ - | 100% | 0% |
| Total | \$5,876,615 | \$3,681,318 | 61% | 39% |

Table 10 demonstrates that approximately 61% of the costs of operating the Village water system in 2011 will be fixed. Over the projection period, due to increasing capital expenses, the fixed portion increases to approximately 70% by 2015.

F. RATE ALTERNATIVES

The cost of providing water service to the customers of the Village water system has been established in the previous sections of this report. The analysis demonstrates that the Village will need to increase rates to ensure the financial health and stability of the Water Fund. The following section of the report reviews how these costs are recovered from customer by examining the current and alternative rate structures.

1. Current Rate Structure

The current water rate structure includes a fixed minimum bill and a usage rate per hundred cubic (CCF) of meter water usage. The bi-monthly minimum bill includes 2 CCFs of water and the usage rate is applied to all metered water exceeding 2 CCF. The current structure collects approximately 7.5% of revenues from the fixed portion of the rate structure. As a result, the Water Fund is guaranteed approximately 7.5% of the anticipated total current revenues regardless of water usage. The Village provides service to customers outside its corporate limits. These customers are charged a modest surcharge. Table 12 presents the current water rate structure.

Table 12 - Current Water Rates

| Monthly Minimum Charge | Current |
|--|---------|
| Inside Village - Minimum Bi-Monthly Charge (2 CCFs) | \$6.62 |
| Inside Village - Rate per CCF | \$3.31 |
| Outside Villege Minimum Di Menthly Change (2 CCFe) | ¢7.70 |
| Outside Village - Minimum Bi-Monthly Charge (2 CCFs) | \$7.70 |
| Outside Village - Rate per CCF | \$3.85 |

2. Rate Alternatives

The following section of the report discusses the key policy goals and objectives related to pricing water service and the development of several alternative rate structures designed to address the pricing goals and objectives.

2.1 Pricing Goals and Objectives

To examine alternative rate structures it is necessary to determine the principle pricing goals and objectives for the structure. Based on our industry experience there are a number of common goals and objectives related to pricing water service. The most common considerations include the following:

- Cost of Service Recovery
- Revenue Stability
- Ease of Updating
- Water Conservation
- Economic Development
- Equitably Cost Allocation

- Minimizing Customer Impacts
- Affordability
- Rate Stability
- Ease of Understanding
- Ease of Implementation
- Legality

Each of the pricing goals and objectives were viewed in light of the Village's overall strategies including the Village's Strategic Plan. While all of the objectives mentioned above are deemed important, there are several objectives that were identified to be key for the study.

- Cost of Service Recovery The rate structures must provide the revenues needed to operate the system, provide for capital needs and meet the financial targets for long-term financial health and stability.
- *Minimizing Customer Impact* The direct impact to Village customers should be minimized, realizing that customer retention and continued water usage is critical for the continued health and stability of the water system.
- Revenue Stability To assist in the financial stability within the Water Fund, the rate structure should provide a reasonable amount of revenue stability.
- Water Conservation The Village has identified in its strategic plan an objective to encourage the wise use of resources which naturally includes water resources. Therefore the ability of the water rate structure to encourage wise use of water was deemed important.

There are a number of ways to address the key pricing goals and objectives mentioned above. The first objective, cost of service recovery, is best accomplished by ensuring that the rates are set at a level that fully recovers the cost of providing water service. While this can be accomplished with any rate structure, the cost of service recovery will be closely related to revenue stability. In other words, it is important to assess the likelihood that the rate structure will generate the anticipated revenues. The second objective, minimizing customer impacts, can be accomplished by minimizing the one-time changes to the rate structure and by phasing in rate increases.

The pricing objective related to revenue stability can be addressed in a number of ways. The most common approach is to increase the fixed portion of the water bill. The more significant the fixed portion of the bill the more guaranteed revenue generated from the water rates. necessary for there to be a clear cost basis for the fixed portion of the bill (the fixed portion should recover fixed costs incurred by the utility). Typical costs included in a fixed charge include, but are not limited to: customer service costs, billing and meter reading, administrative costs and meter maintenance. However as presented in the previous section of the report, approximately 61% of the total cost of operating and maintaining the water system are fixed and therefore it would be possible to include capital costs as well. Another consideration related to the fixed portion of the bill is the basis that would be used to impose the fixed portion of the bill. The Village currently charges the minimum bill (fixed portion) on a per account basis. It is fairly common to impose fixed charges based on meter size. The size of a customers meter represents the potential demand that they can place on the water system (i.e. a residential 5/8" meter can only demand so much water from the system, where as a 6" meter can demand significantly more water). As a result it costs more to maintain the water supply for a larger meter and it also costs significantly more to replace and maintain a larger meter. The basis selected should be consistent with the costs recovered in the fixed charge. If meter maintenance costs, capital costs and/or general system maintenance costs are added to the fixed charge, then the charge should be applied by meter size. On the other hand, if just the costs for billing and administrative services are included in the fixed charge, there is no basis for using meter size as these costs are the same for all customers regardless of meter size.

The final key pricing objective, water conservation, is most often addressed in a rate structure through the variable portion (the usage rate) of the bill. The usage rate can be designed to encourage the wise use of water by increasing the rate for water used at usage levels that are deemed excessive or discretionary. It is important to note that a conservation type rate structure often results in increased revenue volatility and therefore to some degree counters the idea of revenue stability.

2.2 Alternative Rate Structures

After discussions with the Village Staff and in light of the pricing goals and objectives a number of rate structure alternatives were developed. The alternatives were ultimately narrowed down to two key alternatives which were fully developed and are presented in this section of the report. The two alternatives are presented along side the current rate structure for comparison. Each alternative will produce the same amount of revenue which is 14% more than the revenue produced by the current rates based on the financial plan for the water system shown in Table 8. Each of the alternatives are shown below followed by a review of the structures ability to meet the pricing goals and objectives.

• Alternative A (Current Rate Structure) - The current rate structure increased to produced 14% more revenue in 2001.

Alternative A - Fixed Minimum Bill (Current Rate Structure)

| | 2010 | 2011 |
|--|---------------|---------------|
| | Current Rates | Alternative A |
| Minimum Bi-Monthly Charge (2 CCFs) - Inside Village | \$6.62 | \$7.55 |
| Minimum Bi-Monthly Charge (2 CCFs) - Outside Village | \$7.70 | \$8.78 |

Alternative A - Usage Rate (Current Rate Structure)

| | 2010 Current Rates | 2011 Alternative A |
|--------------------------------------|-----------------------|-----------------------|
| Usage Rate per CCF - Inside Village | \$3.31 | \$3.77 |
| Usage Rate per CCF - Outside Village | \$3.85 | \$4.39 |

The current rate structure is fairly common among water utilities. It provides a minimum amount of fixed revenue in the form of a minimum bill and charges customers a unit rate for all metered water used beyond 2 CCF. The following observations are made in regards to Alternative A's ability to meet the pricing goals and objectives.

- Cost of Service Recovery The proposed increases in rates included in Alternative A will assist in ensuring that the cost of operating and maintaining the water system is recovered.
- Minimizing Customer Impact Alternative A will impact all customers of the water system by increasing their bills by 14% since the structure includes a uniform rate increase.

- Revenue Stability Alternative A will not increase the revenue stability within the Water Fund. The rate structure will continue to provide guaranteed revenues of approximately 7.5% of the total revenues. The current structure should not cause a decrease in revenue stability beyond what the Fund experiences currently.
- ➤ Water Conservation Alternative A does not directly address water conservation. However with the increase in the usage rate customers will pay more (then under the current rates) for each CCF of water consumed which may incentivize the wise use of water.
- Alternative B Consists of a bi-monthly fixed charge based on meter size and a unit rate volume charge.

Alternative B - Fixed Charge

| Bi-Monthly Fixed Charge | Alternative B - 2011 Inside and Outside Village |
|-------------------------|--|
| 5/8" | \$8.25 |
| 1" | \$12.40 |
| 1 1/2" | \$41.25 |
| 2" | \$66.00 |
| 3" | \$123.70 |
| 4" | \$206.15 |
| 6" | \$412.30 |
| 10" | \$989.50 |

Alternative B - Usage Rate

| | Alternative B - 2011 | | |
|--------------------|----------------------|-----------------|--|
| | Inside Village | Outside Village | |
| Usage Rate per CCF | \$3.30 | \$3.80 | |

Similar to Alternative A, Alternative B is a very common rate structure among water utilities around the country. The rate structure is very similar to Alternative A with the only exception being that the structure includes a fixed charge based on meter size which does not include a minimum quantity of water. A customer who uses 4 CCF of water would be charge the fixed charge plus the usage rate for all 4 CCF of meter water. Additionally, the fixed charge is designed to collection 14% of the revenues compared to the 7.5% under the current structure. The costs recovered by the fixed charge include administration, billing and customer service and meter maintenance. The following observations are made in regards to Alternative B's ability to meet the pricing goals and objectives.

- Cost of Service Recovery The proposed increases in rates included in Alternative B will assist in ensuring that the cost of operating and maintaining the water system is recovered.
- Minimizing Customer Impact Alternative B will impact customers differently based on how much water is used. The structure is not drastically different from the current structure so the customer impacts are therefore minimized.

- Revenue Stability Alternative B will increase the revenue stability within the Water Fund. The rate structure will provide guaranteed revenues of approximately 14% of the total revenues which is nearly double the current amount guaranteed (7.5%, Alternative A).
- ➤ Water Conservation Alternative B will do the least of any of the alternatives to address water conservation. As the result of an increased fixed portion of the bill the incentive to conserve is reduced.
- Alternative C Contains a bi-monthly fixed charge based on meter size with multiple class inclining block rate variable charges.

Alternative C - Fixed Charge

| Bi-Monthly Fixed Charge | Alternative C - 2011 Inside and Outside Village |
|-------------------------|--|
| 5/8" | \$8.25 |
| 1" | \$12.40 |
| 1 ½" | \$41.25 |
| 2" | \$66.00 |
| 3" | \$123.70 |
| 4" | \$206.15 |
| 6" | \$412.30 |
| 10" | \$989.50 |

Alternative C - Usage Rate

| | Inside Village | Outside Village |
|----------------------------|----------------|-----------------|
| Residential Rate Structure | | |
| Level 1: 0 – 15 CCFs | \$2.85 | \$3.40 |
| Level 2: 15 – 30 CCFs | \$3.60 | \$4.25 |
| Level 3: Over 30 CCFs | \$4.30 | \$5.10 |
| Commercial Rate Structure | | |
| Level 1: 0 - 100 CCFs | \$2.85 | \$3.40 |
| Level 2: 100 - 200 CCFs | \$3.60 | \$4.25 |
| Level 3: Over 200 CCFs | \$4.30 | \$5.10 |
| Industrial Rate Structure | | |
| Level 1: 0 - 130 CCFs | \$2.85 | - |
| Level 2: 130 - 260 CCFs | \$3.60 | - |
| Level 3: Over 260 CCFs | \$4.30 | - |

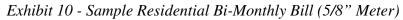
Alternative C provides the greatest change from the current rate structure. It includes the same fixed charge approach included in Alternative B but the usage charge includes an inclining block structure designed to encourage water conservation. The rate structure is designed to charge each customer class a premium for water used each bi-monthly period that is above what is defined as non-discretionary use (i.e. winter water usage). For each customer class the usage levels are set as follows:

- Level 1 Usage up to 125% of winter bi-monthly usage
- ➤ Level 2 Usage up to 250% of winter bi-monthly usage
- ➤ Level 3 Usage over 250% of winter bi-monthly usage

It should be noted that the Village does not serve any industrial customers outside of the Village and therefore a rate is not provided for these customers. The following observations are made in regards to Alternative C's ability to meet the pricing goals and objectives.

- Cost of Service Recovery The proposed increases in rates included in Alternative C will assist in ensuring that the cost of operating and maintaining the water system is recovered.
- Minimizing Customer Impact Alternative C will impact customers differently based on how much water is used. The structure differs from the current structure most dramatically and therefore will result in some customers experiencing potentially significant increases or decreases to their bills.
- Revenue Stability Alternative C will increase the revenue stability within the Water Fund. The rate structure will provide guaranteed revenues of approximately 14% of the total revenues which is double the current amount guaranteed. However inclining block rate structures often result in greater revenue volatility due to customer usage and weather conditions. So the 76% of revenues collected from the usage rate will most likely be less stable.
- ➤ Water Conservation Alternative C is designed to encourage water conservation. The variable charge is specifically designed to encourage water. However this is tempered to some degree by the increased fixed charge as discussed with Alternative B. It is assumed however the customers will reduce their water usage in the Level 2 block by 4% and the Level 3 block by 7%, based on price elasticity.

The following exhibits are provided to demonstrate the side-by-side impact on each customer type for each rate alternative. The exhibits present the current bill (under 2010 rates) and the bills for 2011 under each of the alternatives.



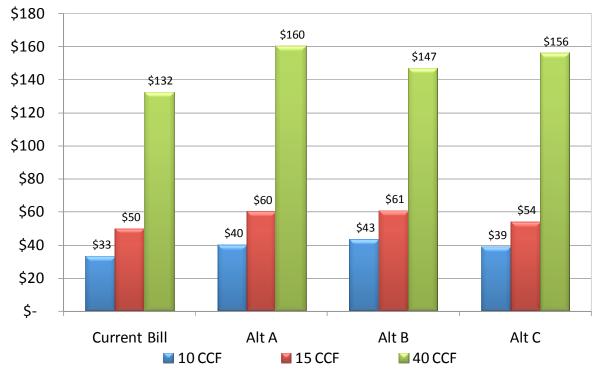
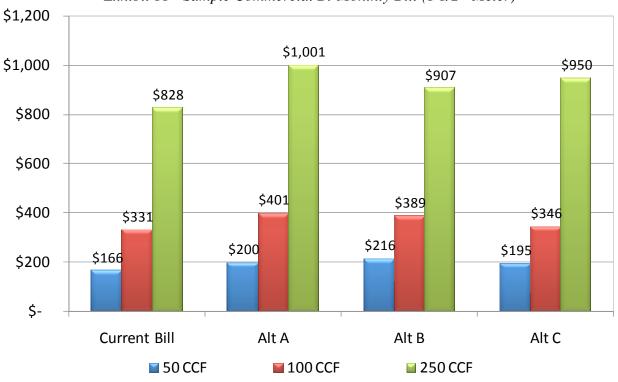


Exhibit 11 - Sample Commercial Bi-Monthly Bill (1 1/2" Meter)



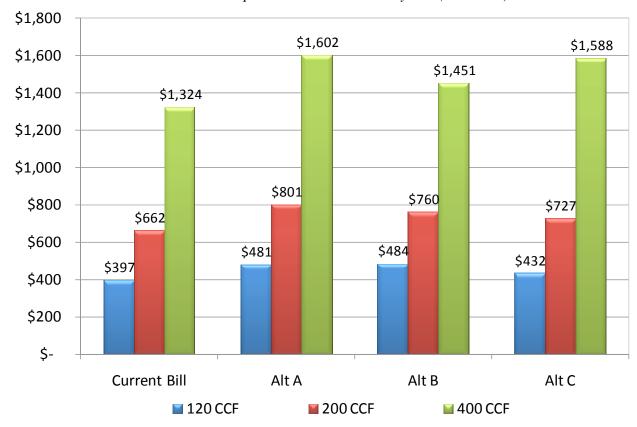


Exhibit 12 - Sample Industrial Bi-Monthly Bill (2" Meter)

The exhibits demonstrate that each alternative will impact customers differently based on usage amounts.

2.3 Recommended Rate Structure

Based on the policy discussions with the Village Staff and review of the rate structures in light of the pricing goals and objectives we recommend that the Village adopt the Alternative B rate structure for the water system with rates effective in 2011. The Alternative B structure is recommended for a number of reasons. The rate structure will:

- Generate approximately 14% more revenue in 2011.
- Collect 14% of revenues in the fixed charges which will assist in increasing stability within the Water Fund.
- Impose the fixed charge based on meter size which better matches the true cost of providing water service to larger sized meters.
- Minimize the impact of the increases for most customers due to the limited change in the rate structure.

The Alternative B structure meets all of the pricing objectives with the exception of water conservation. However based on the ongoing reduction in water sales, it appears that the Village is currently achieving water conservation. The pricing of water is only one of many factors that

influence water conservation. Educational programs, programs offering rain barrels and water using fixture change-out (replacing old water fixtures) all have been shown to result in water conservation. Therefore we would argue that the Village is making strives towards this goal and that at this time a water conservation rate structure would be result in too much change all at one time. Over time the Village may want to consider implementing a conservation type structure if conservation does not seem to continue with current practices.

3. Sample Bills

The following tables present sample bills for various customers under the current and recommended Alternative B water rates. The tables are intended to provide an expanding view of the impact on various customers under the proposed alternative along with the cumulative percentage of customers using the demonstrated amount of water.

Table 13 - Sample Inside Village Bi-Monthly Water Bills

| Meter Size | Water Consumption (in CCFs) | Customer Class | Current Bill | Recommended 2011 Bill | % Difference |
|---------------|-----------------------------------|-------------------|--------------|--------------------------|--------------|
| 5/8 | 1 | Residential | \$6.62 | \$11.55 | 74.41% |
| 5/8 | 2 | Residential | \$6.62 | \$14.85 | 124.26% |
| 5/8 | 15 | Residential | \$49.65 | \$57.75 | 16.31% |
| 5/8 | 40 | Residential | \$132.40 | \$140.25 | 5.93% |
| 5/8 | 5 | Commercial | \$16.55 | \$24.75 | 49.52% |
| 1 1/2 | 50 | Commercial | \$165.50 | \$206.23 | 24.61% |
| 1 1/2 | 100 | Commercial | \$331.00 | \$371.23 | 12.15% |
| 1 1/2 | 250 | Commercial | \$827.50 | \$866.23 | 4.68% |
| 5/8 | 60 | Industrial | \$198.60 | \$206.25 | 3.85% |
| 2 | 120 | Industrial | \$397.20 | \$461.97 | 16.31% |
| 2 | 200 | Industrial | \$662.00 | \$725.97 | 9.66% |
| 2 | 400 | Industrial | \$1,324.00 | \$1,385.97 | 4.68% |

Table 14 - Sample Outside Village Bi-Monthly Water Bills

| Meter Size | Water Consumption (in CCFs) | Customer Class | Current Bill | Recommended 2011 Bill | % Difference |
|---------------|-----------------------------------|-------------------|--------------|--------------------------|--------------|
| 5/8 | 1 | Residential | \$7.70 | \$12.05 | 56.44% |
| 5/8 | 2 | Residential | \$7.70 | \$15.85 | 105.79% |
| 5/8 | 15 | Residential | \$57.75 | \$65.25 | 12.98% |
| 5/8 | 40 | Residential | \$154.00 | \$160.25 | 4.06% |
| 5/8 | 5 | Commercial | \$19.25 | \$27.25 | 41.54% |
| 1 1/2 | 50 | Commercial | \$192.50 | \$231.23 | 20.12% |
| 1 1/2 | 100 | Commercial | \$385.00 | \$421.23 | 9.41% |
| 1 1/2 | 250 | Commercial | \$962.50 | \$991.23 | 2.98% |

Tables 12 and 13 demonstrate that customers that use very little water will see significant percentage increases in their bi-monthly water bills. The actual dollar increases are fairly modest and there are very few customers that use such small quantities of water. The significant percentage increases are due to the change in the rate structure (the increased fixed charge).

G. CAPITAL AND ANCILLARY SERVICE FEES

Capital fees are collected from new water customers when they connect to the water system or when an existing service is increased in size. Ancillary service fees are imposed upon customers for individual services that are provided and are un-related to the general utility operations or the day-to-day use of the water system. They include items such as penalties, public hydrant use and other one-time type activities related to the water system. As part of the rate study, MFSG reviewed the current fees imposed by the Village to determine if they represent the true cost incurred by the Village while providing the service.

1. Capital Fees

The Village currently collects capital fees from new customers joining the water system. The capital fees are intended to recover the capital costs of providing service to the new customer. The capital fees are currently made up of four components which include a tap fee, a capacity fee, a connection fee and a meter fee. Each of the capital fees are discussed below.

1.1 Tap Fees

The Village's tap fees are intended to recover the actual costs incurred by the Village while taping the water line for connection and providing the corporation stop, B-box and other materials. Currently, the Village charges tap fees based on line size for the tap, which is standard industry practice. It has been a number of years since the Village updated the tap charges. Based on the review of the actual costs of material and labor to provide the tap completed by the Village Staff the current taps fees do not cover the cost of providing a tap to a new customer. We recommend that the Village adopt increased tap fees to ensure that the cost of providing the service is recovered. Additionally we recommend that the fees be increased by 3% per year to reflect inflation. The current and recommended tap fees are presented below.

Table 15 - Current and Recommended Tap Fees

| Line Size | Current | 2011 | 2012 | 2013 | 2014 | 2015 |
|-----------|---------|-------|-------|-------|-------|-------|
| 1" | \$200 | \$230 | \$240 | \$250 | \$260 | \$270 |
| 1 1/2" | \$250 | \$370 | \$380 | \$390 | \$400 | \$410 |
| 2" | \$325 | \$425 | \$440 | \$450 | \$460 | \$470 |
| Over 2" | \$400 | \$590 | \$610 | \$630 | \$650 | \$670 |

1.2 Meter Fees

The current meter fees imposed by the Village are intended to recover the cost of providing a water meter to a new customer. The fees are based on the size of the meter which is standard industry practice. Similar to the taps fees it has been a number of years since the Village updated the meter fees. Additionally the Village does not currently have a specific charge for meters larger than 2 inches in size. To review the meter fees, the Village Staff provided the actual cost of purchasing water meters for the various sizes of meters. The following table presents the current meter fees and the current actual cost of purchasing meters. We recommend that the meter fees be increased annually by 3% to account for inflation in the cost of meters.

Table 16 - Current and Recommended Meter Fees

| Meter Size | Current | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------|---------|---------|---------|---------|---------|---------|
| 5/8" or 3/4" | \$250 | \$260 | \$270 | \$280 | \$290 | \$300 |
| 1" | \$325 | \$370 | \$380 | \$390 | \$400 | \$410 |
| 1 1/2" | \$400 | \$1,500 | \$1,550 | \$1,600 | \$1,650 | \$1,700 |
| 2" | \$500 | \$1,780 | \$1,830 | \$1,880 | \$1,940 | \$2,000 |
| 3" | - | \$2,940 | \$3,030 | \$3,120 | \$3,210 | \$3,310 |
| 4" | - | \$3,900 | \$4,020 | \$4,140 | \$4,260 | \$4,390 |
| 6" | - | \$6,240 | \$6,430 | \$6,620 | \$6,820 | \$7,020 |

1.3 Connection and Capacity Fees

The Village currently imposed two additional capital fees; a connection fee based on line size and a capacity fee per connection. Discussions with the Village Staff reveal that the purpose for the separate fees is unclear. However these fees are intended to recover the capital cost of constructing backbone water infrastructure to serve a new customer. To simplify the fees and due to the fact that the rationale for separate fees is unclear, we recommend that the Village combine the fees and call them capacity fees since they are intended recover the purchase of system capacity.

Capacity fees are fairly common within the water industry and are an appropriate means of charging new customers or customers that upsize their service for the cost of constructing water system capacity. To calculate capacity fees it is necessary to examine the historical investments made by the Village to construct the water system and the amount of capacity purchased by a new customer represented by their meter size. The historical investment in the water system used in capacity fee calculations is most often the replacement cost new less depreciation (RCNLD). This value represents the current replacement cost of the non-depreciated assets in the water system. This value serves as a proxy for the cost of providing capacity to new water customers. The Village water system RCNLD value equals approximately \$59 million.

In order to calculate the capacity fees, the current amount of the system that is utilized and the ultimate build out have to be calculated. To examine system capacity it is necessary to develop a consistent basis for the various types of customers within the system. For example, a large commercial customer will typically require more system capacity then a residential customer. To put all customers on a similar basis line/meter equivalents are typically used to determine the number of equivalent dwelling units (EDUs) within a system. The American Water Works Association (AWWA) publishes several tables which equate meter sizes to the potential demand that could be placed on the system. Based on the current number of EDU's and the ultimate build-out of the water system it is estimated that the water system will ultimately serve approximately 24,700 EDU's based on the current water allocation from the Illinois Department of Natural Resources (IDNR). Therefore the cost of providing capacity is \$59 million divided by 24,700 results in a capacity fee of \$2,400 per EDU. The following table presents the current and recommended capacity fees for the next five years.

Table 17 - Current and Recommended Capacity / Connection Fees

| Line Size | | Current | | Proposed |
|-----------|-----------------------|--------------|----------|--------------|
| | Connection Fee | Capacity Fee | Total | Capacity Fee |
| 1" | \$1,900 | \$600 | \$2,500 | \$2,100 |
| 1 1/4" | \$- | \$- | \$- | \$2,300 |
| 1 1/2" | \$2,200 | \$600 | \$2,800 | \$5,200 |
| 2" | \$2,400 | \$600 | \$3,000 | \$10,300 |
| 4" | \$2,900 | \$600 | \$3,500 | \$16,500 |
| 6" | \$6,500 | \$600 | \$7,100 | \$31,000 |
| 8" | \$11,800 | \$600 | \$12,400 | \$51,600 |
| 10" | \$18,300 | \$600 | \$18,900 | \$103,200 |
| 12" | \$26,300 | \$600 | \$26,900 | \$247,600 |

Table 17 demonstrates that the current fees for smaller line sizes are fairly close to the proposed capacity fee. However, as the table demonstrates the current fees significantly under price the cost of providing capacity to larger line sizes (lines 2' to 12"). We recommend that the Village adopt the proposed capacity fees for lines sizes up to 2" but for lines above 2" in size we recommend that the Village should allow for determination of the capacity fee at the discretion of the Public Works Director. The values shown in Table 15 are very substantial and while they do represent the estimated cost of building capacity for large water customers a number of factors should be considered when connecting a large customer particularly the economic impact of a large water user.

Lastly, the majority of development within the Village is redevelopment. As a result, we recommend that the Village impose the capacity fee for existing customers who increase their service connection. The capacity fee should be imposed based the incremental amount of the capacity fee between the line sizes.

2. Ancillary Service Fees

In addition to the water user rates and capital fees, the Village collects ancillary service fees from its customers to offset the cost of providing various services. The Village collects minimal amounts of revenue from these fees. As part of the cost of service study, the current service fees were reviewed to ensure that they set at the appropriate levels. The current and proposed services fees are shown in the following table.

Table 18 - Current and Proposed Ancillary Service Fees

| Service | Current | Proposed |
|--|---------|----------|
| Watering Permit - New sod, plants and/or trees | \$30 | \$30 |
| Public Hydrant Usage Security Deposit | | |
| 5/8" Meter | \$500 | \$500 |
| 1" Meter | \$700 | \$700 |
| 3" Meter | \$1,800 | \$1,800 |
| Administrative Fee | \$25 | \$25 |
| Meter Rental Charge (per week) | \$10 | \$10 |

| Service | Current | Proposed |
|---|--------------------|--------------------|
| Disconnect/Reconnect | | |
| Service Fee For Shutting Off Water Service (7am to 4pm) | \$42 | \$42 |
| Reconnection Service Fee | | |
| a. Between 7am and 4pm | \$42 | \$42 |
| b. Before 7am or after 4pm | \$55 | \$75 |
| First Offense in Rolling 12-Month Period | \$50 | \$50 |
| Second Offense in Rolling 12-Month Period | \$100 | \$100 |
| Third Offense in Rolling 12-Month Period | \$150 | \$150 |
| Fee For Late Payments | 10% of delinquency | 10% of delinquency |
| | amount | amount |
| Handling and Service Charge | \$ 50 | \$ 50 |
| Disconnection of Water Service Pipes | Actual Cost | Actual Cost |
| | | |
| Inspection Fees | | |
| Water Service Tap Inspection Fee | \$60 | \$60 |
| Water Service Disconnect Inspection Fee | \$60 | \$60 |

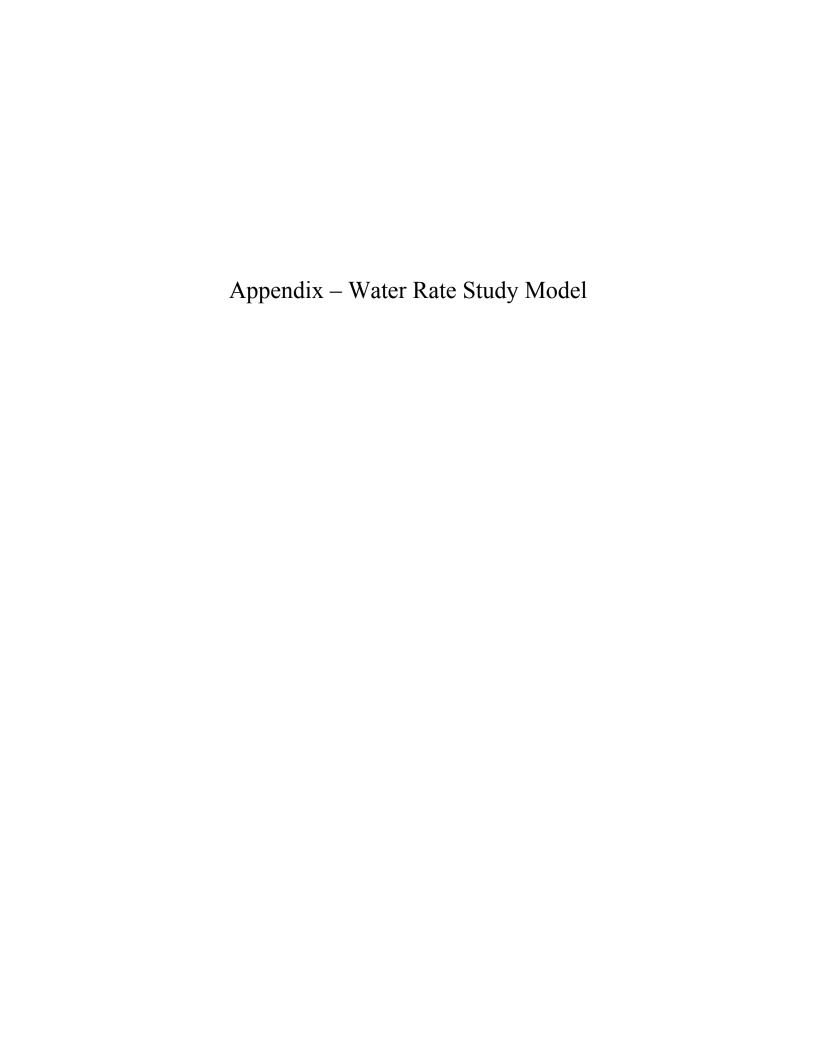
As shown in Table 18, the majority of the ancillary service fees are currently set at an appropriate level. The fees were reviewed by the Village Staff to determine if the actual time and material costs are recovered by the current fees. Based on the review the staff concluded that the fees do recover these costs. Out review concluded that the fees are appropriate however we recommend that the reconnection service fees that are completed outside of normal business hours be increased from \$55 to \$75 to encourage the use of normal utility staff business hours.

The ancillary service fees imposed by the Village are common within the utility industry. However there a few service fees that the Village should implement to further recover the cost of providing water service. These fees were developed by the Village Staff based on cost of providing each service.

Table 19 - New Ancillary Service Fees

| Service | Proposed |
|--|---------------------------------|
| Public Hydrant Usage Charges | |
| Water Usage Fee | \$5.50 per CCF |
| Water Fill Up Fee | \$5 per fill up at Public Works |
| Damage to Hydrant Meter, Fire Hydrant or R.O.W | Actual Cost |
| | <u> </u> |
| New Water Service | |
| Meter Installation and MTU | \$60 |
| | |
| Service Disconnect | |
| Damaged Meter or Missing MTU | Actual Cost |

The proposed fees are intended to further recover the cost of providing individual services related to the Village water system. The service fees should be reviewed annually to ensure that they match the cost of providing each service.





Village of Downers Grove, IL Water Rate Study Developed by: Municipal and Financial Services Group, LLC Last Updated: September 2010

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SCHEDULE 1 - CONTROL PANEL

Operating Assumptions

| | | Base Year | | | | | Fisca | l Year | | | | |
|--|-------------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Source | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| Overall Operating Expenses Inflation Rat | Industry Estimate | | | 3.00% | 3.00% | 3.00% | 3.00% | 3.00% | 3.00% | 3.00% | 3.00% | 3.00% |
| Dupage Water Purchase Inflation Rat | Estimate | | | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% | 10.00% |
| Customer Growth Rate | Village | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Consumption Growth Rate | Village | -1.00% | -1.00% | -1.00% | -1.00% | -1.00% | -1.00% | -1.00% | -1.00% | -1.00% | -1.00% | -1.00% |
| | | | | | | | | | | | | |

Capital Assumptions

| CIP FUNDING SCENARIO ANALYSIS | | | | | | | | | | | |
|---|------------|------------------|--------------|--------------|--------------|--------------|--------------|--------|--------|--------|----------|
| | Base Year | | | | | Fiscal Y | ear | | | | |
| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| Project Total Maximum Cash Fundin \$1,000,000 | | | | · | | Cash Funded | · | | | ·· | <u>"</u> |
| | 100.0% | 100.0% | 18.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |
| Maximum Yearly Cash Fundin: \$1,500,000 | | | | | | Bond Funded | | | | | |
| | 0% | 0% | 82% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | | | | | |
| *If total Project Funding exceeds Trigger it will be bond funded | 1. | | | 1. | | | | | | 1 - | T : |
| Total Cash Funded CIF | \$ 1,113,0 | 93 \$ 285,000 \$ | 967,500 \$ | 660,000 \$ | 600,000 \$ | 500,000 \$ | - \$ | - | \$ - | \$ - | \$ - |
| *If total Project Funding does not reach Trigger it will be cash funded | | | | | | | | | | | |
| Total Bond Funded CIF | \$ - | S - S | 6,007,500 \$ | 2,340,000 \$ | 2,400,000 \$ | 4,750,000 \$ | 1,750,000 \$ | - | S - | \$ - | \$ - |
| | | n | | | | | | | | | |
| Bond Financing | | Bond Issues | Bond 2 | Bond 3 | Bond 4 | Bond 5 | | | | | |
| | | Bond 1 2012 | 2015 | 2017 | 2019 | 2021 | | | | | |
| Fund CIP Beginning Year | | 2012 | 2015 | 2017 | 2019 | 2021 | | | | | |
| Fund CIP Ending Year Year of Issue | | 2014 | 2015 | 2018 | 2020 | 2022 | | | | | |
| Tear of issue Interest Rate on Borrowings | | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | | | | | |
| Debt Maturity | | 20 | 20 | 20 | 20 | 20 | | | | | |
| Debt Administrative Expense (% of Principal) | | 1.50% | 1.50% | 1.50% | 1.50% | 1.50% | | | | | |
| | | | | 1.3070 | 1.3070 | 1.5070 | | | | | |

| | | | | | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|------------------------------------|--|--|--|-----|---------------------------|-------------------------|-------------------------|-------------------------|------------------------|---------------------------|-----------------------|-------------------------|-------------------------|-----------------------|--------------------------------------|-----------------------------|-----------------------------|-----------------------|
| Department | Cost Center | Account Number | Account Name | O/A | Actuals | Actuals | Actuals | Adopted | Estimates | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection |
| Finance/Billing Finance/Billing | Water Billing/Water Acctg. Water Billing/Water Acctg. | 481.20.261.5101.0000 481.20.261.5103.0000 | Salaries, Exempt Sick Time | A S | 17,681 S | 19,671 \$ 8,184 \$ | 19,974 \$ 6,059 \$ | 20,343 \$ | 21,157 \$ | 21,791 \$ | 22,445 \$ | 23,119 \$ | 23,812 \$ | S 24,526 | \$ 25,262 S | \$ 26,020 S | \$ 26,801 S | S 27,605 |
| Finance/Billing | Water Billing/Water Acctg. | 481.20.261.5111.0000 | Salaries, Non-Exempt | A S | 45,933 \$ | 47,243 \$ | 46,068 \$ | 47,818 \$ | 49,731 | 51,223 \$ | 52,759 \$ | 54,342 \$ | 55,972 \$ | 57,652 | \$ 59,381 | 61,163 | \$ 62,997 | 64,887 |
| Finance/Billing | Water Billing/Water Acctg. | 481.20.261.5121.0000 | Overtime | A S | | - s | - s | - S | - 5 | - 5 | - S | - S | - S | s - | s - : | s - : | s - : | S - |
| Finance/Billing | Water Billing/Water Acctg. | 481.20.261.5131.0000 481.20.261.5133.0000 | Imrf Pension Contribs | A S | , | 8,257 \$ | 7,978 \$ | 8,888 \$ 988 \$ | 9,777 \$ | 10,070 \$ 1.058 \$ | 10,372 \$ 1.090 \$ | 10,683 \$ | 11,004 \$ | | \$ 11,674 S \$ 1,227 S | \$ 12,024 5 \$ 1,264 5 | \$ 12,385 5 \$ 1,302 5 | |
| Finance/Billing Finance/Billing | Water Billing/Water Acctg. Water Billing/Water Acctg. | 481.20.261.5133.0000 481.20.261.5134.0000 | Medicare Contributions Social Security Contributions | A S | 876 S 3,745 S | 910 \$ 3,891 \$ | 906 \$ 3,875 \$ | 988 S 4,226 S | 1,028 5 4,395 5 | 1,058 S 4,527 S | 1,090 \$ 4,663 \$ | 1,123 \$ 4,803 \$ | 1,156 \$ 4,947 \$ | 5,095 | \$ 1,227 5 \$ 5,248 5 | \$ 1,264 3 \$ 5,405 3 | \$ 1,302 S \$ 5,568 S | § 1,341 § 5,735 |
| Finance/Billing | Water Billing/Water Acctg. | 481.20.261.5167.0000 | Compensated Absences | A | 596 \$ | (288) \$ | - S | - \$ | .,5,5 | - \$ | - S | - \$ | - \$ | 5,000 | \$ - 5 | \$ - ! | s - : | 5 - |
| Finance/Billing | Water Billing/Water Acctg. | 481.20.261.5190.0000 | Life Insurance | A S | 158 \$ | 197 \$ | 246 \$ | 280 \$ | 280 \$ | 288 \$ | 297 \$ | 306 \$ | 315 \$ | 325 | \$ 334 5 | \$ 344 5 | \$ 355 | 365 |
| Finance/Billing | Water Billing/Water Acctg. | 481.20.261.5191.0000 | Health Insurance | A S | 14,621 \$ | 17,231 \$ | 15,965 \$ | 17,492 \$ | 18,892 \$ | 19,458 \$ | 20,042 \$ | 20,643 \$ | 21,263 \$ | | \$ 22,558 | \$ 23,234 | \$ 23,931 | 8 24,649 |
| Finance/Billing Finance/Billing | Water Billing/Water Acctg. Water Billing/Water Acctg. | 481.20.261.5195.0000 481.20.261.5197.0000 | Optical Insurance Dental Insurance | A S | 5 195 S 5 1,401 S | 219 \$ 1.692 \$ | 153 \$ 1.621 \$ | 160 \$ 1.693 \$ | 164 S | 5 169 \$ 5 1.787 \$ | 174 \$ 1.841 \$ | 179 \$ 1.896 \$ | 185 \$ 1,953 \$ | | | | \$ 208 5 \$ 2,198 5 | S 214 S 2.264 |
| Finance/Billing | Water Billing/Water Acetg. | 481.20.261.5210.0000 | Supplies | 0 5 | | 85 \$ | 15 \$ | - \$ | , , , , , | , 1,767 S | - \$ | - \$ | - \$ | | \$ - 5 | S - 5 | | 5 - |
| Finance/Billing | Water Billing/Water Acctg. | 481.20.261.5303.0000 | Seminars, Conferences & Meetings | 0 5 | 421 5 | - S | 138 \$ | 1,000 \$ | 1,000 \$ | 1,030 \$ | 1,061 \$ | 1,093 \$ | 1,126 \$ | 1,159 | \$ 1,194 | \$ 1,230 | \$ 1,267 | 1,305 |
| Finance/Billing | Water Billing/Water Acctg. | 481.20.261.5315.0000 | Professional Services | 0 5 | | 31,574 \$ | 27,795 \$ | 70,000 \$ | | | 44,558 \$ | 45,895 \$ | 47,271 \$ | | \$ 50,150 | | | |
| Finance/Billing Finance/Billing | Water Billing/Water Acctg. Water Billing/Water Acctg. | 481.20.261.5392.0000 481.20.261.5470.0000 | Postage Other Equipment Repair and Maintenance | 0 5 | 45,918 \$ | 39,833 \$ | 48,706 \$ | 52,000 \$ 9,500 \$ | 52,000 S 2,000 S | 53,560 \$ 2,060 \$ | 55,167 \$ 2,122 \$ | 56,822 \$ 2,185 \$ | 58,526 \$ 2,251 \$ | 60,282 2,319 | | | | 67,848 5 2,610 |
| Finance/Billing | Water Billing/Water Acctg. Water Billing/Water Acctg. | 481.20.261.5687.0000 | Refunds | 0 5 | - 3 | - 3 | 193,918 S | 9,500 3 | 2,000 3 | 2,060 3 | 2,122 S | 2,185 3 - \$ | 2,231 3 - \$ | 2,319 | \$ 2,388 : \$ - ! | \$ 2,460 S | \$ 2,554 S | 5 2,010 |
| Finance/Billing | Water Billing/Water Acctg. | 481.20.261.5902.0000 | Misc Transfers | 0 5 | | - S | 250,000 \$ | - S | - 5 | - 5 | - S | - S | - S | S - | s - : | S - : | | · - |
| | | | | | | | | | | | | | | | | | | |
| Public Works Public Works | Water Administration Water Administration | 481.30.391.5101.0000 481.30.391.5103.0000 | Salaries, Exempt Sick Time | A S | 109,642 \$ | 113,174 \$ 25,826 \$ | 112,460 \$ 19.768 \$ | 116,280 \$ | 120,931 | 124,559 \$ | 128,296 \$ | 132,145 \$ | 136,109 \$ | 140,192 | \$ 144,398 | \$ 148,730 | \$ 153,192 | 157,788 |
| Public Works | Water Administration Water Administration | 481.30.391.5111.0000 | Salaries, Non-Exempt | A S | | 25,826 \$ 97.969 \$ | 19,768 S 103,012 S | 105,241 \$ | 109,451 | 112,734 \$ | - 3 116.116 \$ | 119,600 \$ | 123,188 \$ | 126,883 | \$ 130,690 S | S 134.610 | s 138,649 | 5 142,808 |
| Public Works | Water Administration | 481.30.391.5119.0000 | Part-Time Employee Wages | A S | | 7,872 \$ | 4,080 \$ | 6,196 \$ | 6,444 | 6,637 \$ | 6,836 \$ | 7,041 \$ | 7,253 \$ | | \$ 7,694 | | | 8,408 |
| Public Works | Water Administration | 481.30.391.5121.0000 | Overtime | A 5 | 2,923 \$ | 3,067 \$ | 948 \$ | - S | - 5 | · - \$ | - S | - S | - S | s - | s - : | s - : | s - : | · - |
| Public Works | Water Administration | 481.30.391.5131.0000 | Imrf Pension Contribs | A S | 26,008 S | 26,925 \$ | 26,351 \$ 3.065 \$ | 29,538 \$ | 32,492 \$ | 33,467 \$ | 34,471 \$ | 35,505 \$ | 36,570 \$ | | \$ 38,797 5 | \$ 39,961 5 | \$ 41,160 5 | 42,394 |
| Public Works Public Works | Water Administration Water Administration | 481.30.391.5133.0000 481.30.391.5134.0000 | Medicare Contributions Social Security Contributions | A S | S 2,987 S S 12,774 S | 3,123 \$ 13,354 \$ | 3,065 \$ 13.104 \$ | 3,285 \$ 14,044 \$ | 3,416 S | 3,519 \$ 15,044 \$ | 3,624 \$ 15,495 \$ | 3,733 \$ 15,960 \$ | 3,845 \$ 16,439 \$ | 3,961 16,932 | \$ 4,079 S \$ 17,440 S | \$ 4,202 5 \$ 17,963 5 | \$ 4,328 5 \$ 18,502 5 | \$ 4,458 \$ 19,057 |
| Public Works | Water Administration | 481.30.391.5167.0000 | Compensated Absences | A S | 1,503 \$ | 10,378 \$ | (5,759) \$ | - \$ | - 5 | - S | - S | - \$ | - S | . 10,752 | s - : | \$ - 5 | \$ - 5 | \$ - |
| Public Works | Water Administration | 481.30.391.5190.0000 | Life Insurance | A 5 | 607 \$ | 629 \$ | 694 \$ | 761 \$ | 761 | 784 \$ | 807 \$ | 832 \$ | 857 \$ | 882 | \$ 909 | s 936 | § 964 | 993 |
| Public Works | Water Administration | 481.30.391.5191.0000 | Health Insurance | A S | 31,829 \$ | 34,898 \$ | 32,038 \$ | 35,020 \$ | 37,821 \$ | 38,956 \$ | 40,125 \$ | 41,328 \$ | 42,568 \$ | | \$ 45,161 5 | \$ 46,516 | | 49,348 |
| Public Works Public Works | Water Administration Water Administration | 481.30.391.5195.0000 481.30.391.5197.0000 | Optical Insurance Dental Insurance | A S | \$ 350 \$ \$ 4,122 \$ | 437 \$ 4.719 \$ | 423 \$ 4.479 \$ | 384 \$ 4.062 \$ | 394 S 4.164 S | 405 \$ 4.288 \$ | 418 \$ 4.417 \$ | 430 \$ 4.550 \$ | 443 \$ 4.686 \$ | | \$ 470 S \$ 4.971 S | \$ 484 5 \$ 5.121 5 | \$ 499 5 \$ 5,274 5 | 5 514 5 5.432 |
| Public Works | Water Administration | 481.30.391.5205.0000 | Uniforms | A S | 229 8 | 398 S | - S | 1.055 \$ | 1.055 5 | 1.087 \$ | 1.119 S | 1.153 \$ | 1.187 \$ | | S 1.260 5 | | S 1.336 | S 1.377 |
| Public Works | Water Administration | 481.30.391.5210.0000 | Supplies | A S | 2,580 \$ | 4,209 \$ | 1,621 \$ | 10,400 \$ | 10,400 \$ | 10,712 \$ | 11,033 \$ | 11,364 \$ | 11,705 \$ | 12,056 | \$ 12,418 | \$ 12,791 | \$ 13,174 | 13,570 |
| Public Works | Water Administration | 481.30.391.5240.0000 | Books & Periodicals | A S | - 5 | 63 \$ | 213 \$ | 500 \$ | 500 \$ | | 530 \$ | 546 \$ | 563 \$ | | \$ 597 | S 615 5 | \$ 633 5 | |
| Public Works Public Works | Water Administration Water Administration | 481.30.391.5280.0000 481.30.391.5302.0000 | Small Tools & Equipment Dues And Memberships | A S | 5 2,283 S 5 265 S | 511 \$ 480 \$ | 433 \$ 395 \$ | 2,600 \$ 425 \$ | 2,600 S | 2,678 \$ | 2,758 \$ 451 \$ | 2,841 \$ 464 \$ | 2,926 \$ 478 \$ | , 5,011 | \$ 3,105 S | \$ 3,198 5 \$ 523 5 | \$ 3,294 5 \$ 538 5 | \$ 3,392 \$ 555 |
| Public Works | Water Administration Water Administration | 481.30.391.5302.0000 | Seminars, Conferences & Meetings | A S | 5 263 3 5 960 5 | 1.301 S | 393 \$ 840 \$ | 2.900 \$ | 2.900 5 | 2.987 \$ | 3.077 \$ | 3.169 \$ | 3.264 \$ | 3.362 | \$ 3.463 S | \$ 3.567 S | \$ 3.674 S | s 333 S 3.784 |
| Public Works | Water Administration | 481.30.391.5308.0000 | Recognition Program-Staff | A S | 2,090 \$ | 2,473 \$ | 1,506 \$ | 1,600 \$ | 1,600 \$ | 1,648 \$ | 1,697 \$ | 1,748 \$ | 1,801 \$ | | \$ 1,910 | \$ 1,968 | | 2,088 |
| Public Works | Water Administration | 481.30.391.5315.0000 | Professional Services | A S | 11,429 \$ | 8,870 \$ | 7,219 \$ | 23,861 \$ | 23,861 \$ | 24,577 \$ | | | 26,856 \$ | | \$ 28,491 | | | |
| Public Works | Water Administration | 481.30.391.5322.0000 481.30.391.5380.0000 | Personnel Recruitment | A S | 70 \$ | 188 \$ 64 \$ | - \$ | 110 \$ 2,700 \$ | 5 110 S 5 2,700 S | | 117 \$ 2,864 \$ | 120 \$ 2,950 \$ | 124 \$ 3,039 \$ | S 128 S 3,130 | \$ 131 5 \$ 3,224 5 | \$ 135 5 \$ 3,321 5 | | § 144 § 3,523 |
| Public Works Public Works | Water Administration Water Administration | 481.30.391.5380.0000 481.30.391.5391.0000 | Printing Services Telephone | 0 5 | 5 - 3 5 30357 5 | | -, | 2,700 S | ,, , , , , | | | 2,950 S 4,327 S | 3,039 S 4.457 S | | | | | |
| Public Works | Water Administration | 481.30.391.5392.0000 | Postage | 0 5 | | 5.290 S | 1.521 \$ | 4.700 S | 4,700 \$ | 4.841 \$ | 4,986 S | 5.136 \$ | 5.290 \$ | 5.449 | S 5.612 5 | | , | 6.132 |
| Public Works | Water Administration | 481.30.391.5470.0000 | Other Equipment Repair and Maintenance | 0 5 | | 725 \$ | 109 \$ | 835 \$ | 835 \$ | 860 \$ | 886 \$ | 912 \$ | 940 \$ | | \$ 997 | | | |
| Public Works | Water Administration | 481.30.391.5481.0000 | Rentals | 0 5 | | 693 \$ | 1,367 \$ | 695 \$ | 695 \$ | 716 \$ | 737 \$ | 759 \$ | 782 \$ | | \$ 830 5 | | \$ 880 | 907 |
| Public Works Public Works | Water Administration Water Administration | 481.30.391.5650.0001 481.30.391.5650.0002 | Transfer To ISFs For Allocation Transfer To ISFs For Allocation | 0 5 | 4,896 S 900 S | 7,860 \$ | 5,664 \$ 900 \$ | 5,376 \$ 1,800 \$ | 5,422 S 1,800 S | 5,584 \$ 1,854 \$ | 5,752 \$ 1,910 \$ | 5,925 \$ 1,967 \$ | 6,102 \$ 2,026 \$ | 6,285 2,087 | \$ 6,474 S \$ 2,149 S | \$ 6,668 S \$ 2,214 S | \$ 6,868 S \$ 2,280 S | 5 7,074 5 2,349 |
| Public Works | Water Administration | 481.30.391.5650.0002 | Transfer To ISFs For Allocation | 0 5 | 19,692 | 15.612 S | 24.828 S | 8,673 S | 18.342 | 18.892 \$ | 1,910 S | 20.043 \$ | 20.644 \$ | 21.263 | \$ 2,149 S | S 22.558 5 | s 2,280 s | S 23.932 |
| Public Works | Water Administration | 481.30.391.5650.0004 | Transfer To ISFs For Allocation | 0 5 | | 57,444 \$ | - S | - S | - 5 | - S | - S | - S | - S | - | \$ - 5 | s - : | S - : | S - |
| Public Works | Water Administration | 481.30.391.5650.0005 | Transfer To ISFs For Allocation | 0 5 | 73,164 \$ | 75,648 \$ | 200,004 \$ | 219,169 \$ | 220,500 \$ | 227,115 \$ | 233,928 \$ | 240,946 \$ | 248,175 \$ | 255,620 | \$ 263,289 5 | \$ 271,187 | \$ 279,323 | \$ 287,702 |
| Public Works Public Works | Water Administration Water Administration | 481.30.391.5770.0000 481.30.391.5902.0000 | Capital Equipment Misc Transfers | 0 5 | 5 - S 5 968 916 S | 940 \$ 1 002 840 \$ | - S | 1.074.235 \$ | 5 - S 5 1.106.462 S | | - \$ | 1.209.061 \$ | 1.245.333 \$ | S 1.282.693 | S - S S 1321173 S | S - 3 S 1360809 | S - 3 S 1401633 | 5 - 5 1.443.682 |
| Public Works | water Administration | 481.30.391.3902.0000 | MISC Transfers | 0 1 | 908,910 3 | 1,002,840 \$ | 1,042,944 \$ | 1,074,233 \$ | 1,100,402 3 | 1,139,030 3 | 1,173,840 \$ | 1,209,061 3 | 1,245,555 \$ | 1,282,093 | \$ 1,321,173 | 5 1,360,809 | 5 1,401,033 | 1,443,082 |
| Public Works | Pumping & Treatment | 481.30.392.5103.0000 | Sick Time | A 5 | s - s | 5,802 \$ | 4,674 \$ | - S | 5 | - \$ | - S | - S | - S | | s - s | s - : | s - : | s - |
| Public Works | Pumping & Treatment | 481.30.392.5111.0000 | Salaries, Non-Exempt | A 5 | 44,914 \$ | 47,433 \$ | 50,946 \$ | 49,867 \$ | 51,862 \$ | | | 56,671 \$ | 58,371 \$ | | | | | |
| Public Works Public Works | Pumping & Treatment | 481.30.392.5119.0000 481.30.392.5121.0000 | Part-Time Employee Wages Overtime | A S | 684 S 6,921 S | 3,385 \$ 3,389 \$ | 3,640 \$ 1,486 \$ | 4,680 \$ 15,000 \$ | 4,867 S | 5,013 \$ 15,450 \$ | 5,164 \$ 15,914 \$ | 5,319 \$ 16,391 \$ | 5,478 \$ 16,883 \$ | 5,642 17,389 | \$ 5,812 S \$ 17,911 S | \$ 5,986 S \$ 18,448 S | \$ 6,166 S \$ 19,002 S | 6,351 8 19,572 |
| Public Works | Pumping & Treatment Pumping & Treatment | 481.30.392.5131.0000 | Imrf Pension Contribs | A S | 8,124 S | 7,386 \$ | 7,241 \$ | 7,807 \$ | 8,588 | 5 15,450 3 6 8,845 \$ | 9,111 \$ | 9,384 \$ | 9,666 \$ | 9,955 | \$ 17,911 S | \$ 10,562 S | \$ 19,002 S | S 19,372 S 11,205 |
| Public Works | Pumping & Treatment | 481.30.392.5133.0000 | Medicare Contributions | A S | 919 5 | 881 S | 881 S | 936 \$ | 973 5 | 1,003 \$ | | 1,064 \$ | 1,096 \$ | | | | \$ 1,233 | |
| Public Works | Pumping & Treatment | 481.30.392.5134.0000 | Social Security Contributions | A 5 | 3,929 \$ | 3,769 \$ | 3,765 \$ | 4,002 \$ | 4,162 \$ | 4,287 \$ | 4,416 \$ | 4,548 \$ | 4,684 \$ | | \$ 4,970 | \$ 5,119 | \$ 5,272 | 5,431 |
| Public Works | Pumping & Treatment | 481.30.392.5167.0000 | Compensated Absences | A S | 471 \$ | 417 \$ | 146 \$ | - \$ | - 5 | 5 - \$ 5 231 \$ | - \$ | - \$ | - \$ 252 \$ | S | S - 5 | S - 5 | S - 5 | S - S 292 |
| Public Works Public Works | Pumping & Treatment Pumping & Treatment | 481.30.392.5190.0000 481.30.392.5191.0000 | Life Insurance Health Insurance | A S | 83 S 8 12.580 S | 92 S | 176 \$ 12.834 \$ | 224 \$ 14.062 \$ | 224 5 | 3 231 S 15 642 S | 238 \$ 16,111 \$ | 245 \$ 16.595 \$ | 252 S 17.093 S | | \$ 267 S | \$ 275 S | 201 | |
| Public Works | Pumping & Treatment | 481.30.392.5195.0000 | Optical Insurance | A S | , | 175 \$ | 12,834 3 | 128 \$ | , | | | 143 \$ | 17,093 \$ | | | | ,, | |
| Public Works | Pumping & Treatment | 481.30.392.5197.0000 | Dental Insurance | A 5 | 1,148 \$ | 1,353 \$ | 1,297 \$ | 1,354 \$ | 1,388 \$ | | 1,472 \$ | 1,517 \$ | 1,562 \$ | | \$ 1,657 | | \$ 1,758 | 1,811 |
| Public Works | Pumping & Treatment | 481.30.392.5205.0000 | Uniforms | A S | 591 \$ | 334 \$ | 153 \$ | 655 \$ | 655 \$ | 675 \$ | 695 \$ | 716 \$ | 737 \$ | | \$ 782 | | | 855 |
| Public Works Public Works | Pumping & Treatment Pumping & Treatment | 481.30.392.5210.0000 481.30.392.5226.0000 | Supplies Chemicals And Salt | 0 5 | 3,096 | 532 \$ | 1,267 \$ | 2,785 \$ 300 \$ | 2,785 S 300 S | 2,869 \$ | 2,955 \$ 318 \$ | 3,043 \$ 328 \$ | 3,135 \$ 338 \$ | 3,229 3 348 | \$ 3,325 S \$ 358 S | \$ 3,425 S \$ 369 S | \$ 3,528 5 \$ 380 5 | 5 3,634 5 391 |
| Public Works Public Works | Pumping & Treatment Pumping & Treatment | 481.30.392.5226.0000 481.30.392.5251.0000 | Maintenance Supplies | 0 5 | 5 - 3 5 86 5 | 3.244 S | - S | 1.000 \$ | 1.000 5 | 309 S | 1.061 S | 328 S 1.093 S | 1,126 \$ | | \$ 358 3 \$ 1.194 3 | | | S 1,305 |
| Public Works | Pumping & Treatment | 481.30.392.5256.0000 | Water Pump Maintenance Supplies | 0 5 | 983 \$ | 1,699 \$ | 1,028 \$ | 1,500 \$ | 1,500 \$ | 1,545 \$ | 1,591 \$ | 1,639 \$ | 1,688 \$ | 1,739 | \$ 1,791 | \$ 1,845 | \$ 1,900 | 1,957 |
| Public Works | Pumping & Treatment | 481.30.392.5280.0000 | Small Tools & Equipment | 0 5 | 1,166 \$ | 2,718 \$ | 3,829 \$ | 3,900 \$ | 3,900 \$ | 4,017 \$ | 4,138 \$ | 4,262 \$ | 4,389 \$ | | \$ 4,657 | \$ 4,797 | \$ 4,940 | 5,089 |
| Public Works | Pumping & Treatment | 481.30.392.5291.0000 481.30.392.5302.0000 | Water Purchase | 0 5 | | 2,774,116 \$ | 3,403,352 \$ | 4,129,274 \$ | | 4,730,000 \$ | | 5,723,300 \$ | 6,295,630 \$ 225 \$ | | | | | |
| Public Works Public Works | Pumping & Treatment Pumping & Treatment | 481.30.392.5302.0000 481.30.392.5303.0000 | Dues And Memberships Seminars, Conferences & Meetings | 0 5 | S 165 S S 859 S | 232 \$ 895 \$ | 182 \$ 621 \$ | 200 \$ 600 \$ | 5 200 5 600 5 | 206 \$ 618 \$ | 212 S 637 S | 219 \$ 656 \$ | 225 \$ 675 \$ | , 202 | \$ 239 5 \$ 716 5 | \$ 246 5 \$ 738 5 | \$ 253 5 \$ 760 5 | S 261 S 783 |
| Public Works | Pumping & Treatment | 481.30.392.5315.0000 | Professional Services | 0 5 | 10,000 \$ | 15,395 \$ | 8,575 \$ | 58,224 \$ | 66,491 | 88,991 \$ | 111,491 \$ | 114,836 \$ | 118,281 \$ | | \$ 125,484 | 129,249 | \$ 133,126 | S 137,120 |
| Public Works | Pumping & Treatment | 481.30.392.5322.0000 | Personnel Recruitment | 0 5 | 45 \$ | 47 \$ | 141 \$ | 60 \$ | 60 5 | 62 \$ | 64 \$ | 66 \$ | 68 \$ | 70 | \$ 72 5 | s 74 s | \$ 76 5 | 5 78 |
| Public Works | Pumping & Treatment | 481.30.392.5391.0000 481.30.392.5430.0000 | Telephone | 0 5 | 11,264 | 7,723 \$ 65 \$ | 2,661 \$ 685 \$ | 13,445 \$ 6,000 \$ | 13,445 | | | 14,692 \$ | 15,132 \$ | 15,586 | \$ 16,054 5 | \$ 16,536 | \$ 17,032 | 17,543 |
| Public Works Public Works | Pumping & Treatment Pumping & Treatment | 481.30.392.5430.0000 481.30.392.5461.0000 | Building Maintenance Services Utilities | 0 5 | 5 - S 5 41.011 S | 65 \$ 40,456 \$ | 685 \$ 55,435 \$ | 6,000 \$ 50,000 \$ | 6,000 S | 6,180 \$ | 6,365 \$ 53,045 \$ | 6,556 \$ 54,636 \$ | 6,753 \$ 56,275 \$ | 6,956 57,964 | \$ 7,164 S \$ 59,703 S | \$ 7,379 S \$ 61.494 S | \$ 7,601 S \$ 63,339 S | 5 7,829 65,239 |
| Public Works | Pumping & Treatment Pumping & Treatment | 481.30.392.5470.0000 | Other Equipment Repair and Maintenance | 0 5 | | 40,436 \$ 100 \$ | 2,792 \$ | 8,000 \$ | 8,000 | 5 51,500 \$ 5 8,240 \$ | 33,043 \$ 8,487 \$ | 8,742 \$ | 9,004 \$ | | | \$ 9,839 S | | |
| Public Works | Pumping & Treatment | 481.30.392.5650.0001 | Transfer To ISFs For Allocation | 0 5 | 2,688 \$ | 2,748 \$ | 2,748 \$ | 2,601 \$ | 2,631 \$ | 2,710 \$ | 2,791 \$ | 2,875 \$ | 2,961 \$ | 3,050 | \$ 3,141 5 | \$ 3,236 | \$ 3,333 | 3,433 |
| Public Works | Pumping & Treatment | 481.30.392.5650.0002 | Transfer To ISFs For Allocation | 0 5 | | 2,100 \$ | 2,100 \$ | 250 \$ | 250 \$ | 258 \$ | | 273 \$ | 281 \$ | | | \$ 307 | \$ 317 5 | 326 |
| Public Works | Pumping & Treatment | 481.30.392.5650.0003 | Transfer To ISFs For Allocation | 0 5 | , | 5,904 \$ | 13,128 \$ | 5,935 \$ | 7,465 | 7,689 \$ | 7,920 \$ | 8,158 \$ | 8,402 \$ | , | \$ 8,914 | \$ 9,181 | , | 9,741 |
| Public Works Public Works | Pumping & Treatment Pumping & Treatment | 481.30.392.5760.0000 481.30.392.5850.0000 | Improvements Other Than Buildings Buildings | 0 5 | , | - S | - S | - S | - 1 | - 5 | - S | - S | - S | - | s - : | S - : | s - : | · - |
| Public Works | Pumping & Treatment Pumping & Treatment | 481.30.392.5860.0000 | Improvements Other Than Buildings | 0 5 | | - S | - s | - S | 60,000 | 61,800 \$ | 63,654 \$ | 65,564 \$ | 67,531 \$ | 69,556 | \$ 71,643 | s 73,792 | \$ 76,006 | 78,286 |
| | | | | | | | | | | | | | | | | | | |
| Public Works Public Works | Water Distribution Water Distribution | 481.30.393.5103.0000 481.30.393.5111.0000 | Sick Time Salaries, Non-Exempt | A S | 5 - S 5 266.134 S | 30,709 \$ 251,065 \$ | | - \$ 388,909 \$ | | - \$ 416.599 \$ | - \$ 429.097 \$ | - \$ 441.970 \$ | - \$ 455,229 \$ | 5 - 5 468,886 | \$ - ! \$ 482,953 ! | S - 5 S 497,441 | S - 5 S 512,365 | 5 - 5 527.736 |
| Public Works Public Works | Water Distribution Water Distribution | 481.30.393.5111.0000 481.30.393.5119.0000 | Salaries, Non-Exempt Part-Time Employee Wages | A S | 5 266,134 S 5 14.185 S | 251,065 \$ 9,370 \$ | 334,807 \$ 4.310 \$ | 388,909 \$ 11.298 \$ | | 416,599 \$ 12,102 \$ | | 441,970 \$ 12.839 \$ | 455,229 \$ 13.225 \$ | 6 468,886 6 13,621 | \$ 482,953 S \$ 14,030 S | \$ 497,441 S \$ 14.451 S | \$ 512,365 5 \$ 14.884 5 | |
| | | | | | ,,,,,,, | 2,270 9 | 1,510 9 | 11,270 0 | ,,,,,,, | | .2,.00 | .2,000 | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | . 1,007 | , |

Village of Downers Grove Water Rate Study

SCHEDULE 2A - OPERATING & MAINTENANCE EXPENSES

| Public Works | Water Distribution | 481.30.393.5121.0000 | Overtime | A | \$ 73.069 | s 68.327 s | 54.126 S | 53,000 S | 53,000 \$ | 54.590 \$ | 56,228 \$ | 57.915 \$ | 59,652 \$ | s 61.442 | s 63.285 s | 65,183 5 | s 67.139 s | 69,153 |
|--------------|--|----------------------|--|---|-----------------------|-----------------|------------------------|-----------------------|-----------------------|--------------|--------------|----------------------|--------------|---------------|---------------------------|-------------------------|---------------------|-----------------|
| Public Works | Water Distribution | 481.30.393.5131.0000 | Imrf Pension Contribs | A | \$ 48,870 | \$ 52,612 \$ | 55,617 \$ | 59,842 S | 65,826 \$ | 67.801 \$ | 69.835 \$ | 71.930 \$ | 74,088 5 | \$ 76,311 | \$ 78,600 \$ | 80,958 5 | S 83,387 S | 85,888 |
| Public Works | Water Distribution | 481.30.393.5133.0000 | Medicare Contributions | A | \$ 5.174 | | 5,878 \$ | 6,654 S | 6,920 \$ | 7,128 \$ | 7.342 \$ | 7,562 \$ | 7.789 | | S 8,263 S | 8,511 5 | | 9,029 |
| Public Works | Water Distribution | 481.30.393.5134.0000 | Social Security Contributions | | \$ 22.127 | | | 28,452 \$ | 29.590 \$ | 30,478 \$ | 31.392 S | 32,334 \$ | 33,304 5 | | | 36,392 5 | | 38,608 |
| Public Works | Water Distribution | 481.30.393.5167.0000 | Compensated Absences | A | \$ 1.024 | | 12,134 \$ | - S | - S | - S | | | 33,501 | S - | | 50,552 | s - s | - |
| Public Works | Water Distribution | 481.30.393.5190.0000 | Life Insurance | A | \$ 635 | | 1,440 \$ | 1,611 \$ | 1.611 \$ | 1.659 \$ | 1,709 \$ | 1,760 \$ | 1.813 5 | | \$ 1,924 \$ | 1.981 | \$ 2,041 \$ | 2,102 |
| Public Works | Water Distribution | 481.30.393.5191.0000 | Health Insurance | A | \$ 74.678 | | 86.557 S | 93.179 S | | 103,653 \$ | | 109.965 \$ | 113,264 | | | 123,767 | | 131,304 |
| Public Works | Water Distribution | 481.30.393.5195.0000 | Optical Insurance | A | \$ 1,031 | | 709 \$ | 732 \$ | | 773 \$ | 796 \$ | 820 \$ | 844 5 | | \$ 896 5 | 923 5 | | 979 |
| Public Works | Water Distribution | 481.30.393.5197.0000 | Dental Insurance | 0 | \$ 7.114 | | 8.826 S | 9.104 S | | 9.612 \$ | 9,900 \$ | 10.197 \$ | 10,503 \$ | | | 11.477 5 | | 12,176 |
| Public Works | Water Distribution | 481.30.393.5205.0000 | Uniforms | 0 | \$ 2,933 | | | 4.760 S | | 4,903 \$ | 5,050 S | 5,201 \$ | 5,357 \$ | | | 5.854 | | 6,211 |
| Public Works | Water Distribution | 481.30.393.5210.0000 | Supplies | o | \$ 1,664 | | | 2,000 S | | 2,060 \$ | 2,122 \$ | 2,185 \$ | | | | | | 2,610 |
| Public Works | | 481.30.393.5251.0000 | | 0 | \$ 1,664 \$ 12.581 | | 42.578 \$ | 2,000 \$ 61.450 \$ | 2,000 \$ 61.450 \$ | 63.294 \$ | | 2,185 3 67.148 \$ | 69.163 | | \$ 2,388 3 \$ 73,375 5 | 5 2,460 3 5 75,576 5 | | 2,610 80.178 |
| Public Works | Water Distribution Water Distribution | 481.30.393.5257.0000 | Maintenance Supplies | o | \$ 69,882 | | 42,378 \$ 45,381 \$ | 48,455 \$ | 48,455 \$ | 49,909 \$ | 51,406 \$ | 52,948 \$ | 54,537 | | | 5 59,594 5 | | 63,223 |
| | | | Trans & Distribution Supplies-New Constr | | | | | | | | | | | | | | | |
| Public Works | Water Distribution | 481.30.393.5258.0000 | Transmission & Distribution Maintenance | 0 | \$ 49,222 | | 9,725 \$ | 25,126 \$ | 25,126 \$ | 25,880 \$ | 26,656 \$ | 27,456 \$ | 28,280 \$ | | | 30,902 \$ | | 32,784 |
| Public Works | Water Distribution | 481.30.393.5259.0000 | Hydrant Maintenance Supplies | O | \$ 44,708 | | 47,562 \$ | 68,500 \$ | 68,499 \$ | 70,554 \$ | 72,671 \$ | 74,851 \$ | 77,096 | | | 84,245 \$ | | 89,376 |
| Public Works | Water Distribution | 481.30.393.5270.0000 | Asset Maintenance Supplies | O | \$ 241 | | - S | - S | | - \$ | - \$ | | | s | | - : | S - S | |
| Public Works | Water Distribution | 481.30.393.5280.0000 | Small Tools & Equipment | 0 | \$ 5,241 | | 4,470 \$ | 14,700 \$ | 14,700 \$ | 15,141 \$ | | 16,063 \$ | 16,545 | | | 18,079 \$ | | 19,180 |
| Public Works | Water Distribution | 481.30.393.5302.0000 | Dues And Memberships | О | \$ 50 | | - S | 100 \$ | 100 \$ | 103 \$ | 106 \$ | 109 \$ | 113 \$ | | | | | 130 |
| Public Works | Water Distribution | 481.30.393.5303.0000 | Seminars, Conferences & Meetings | О | \$ 2,033 | | 120 \$ | 1,400 \$ | 1,400 \$ | 1,442 \$ | | 1,530 \$ | 1,576 \$ | | | | | 1,827 |
| Public Works | Water Distribution | 481.30.393.5315.0000 | Professional Services | О | \$ 34,670 | | 207,271 \$ | 278,150 \$ | 278,150 \$ | 303,150 \$ | | 337,995 \$ | 348,134 \$ | | | | | 403,583 |
| Public Works | Water Distribution | 481.30.393.5322.0000 | Personnel Recruitment | O | \$ 180 | | - \$ | 120 \$ | 120 \$ | 124 \$ | 127 \$ | 131 \$ | 135 \$ | | | 148 5 | | 157 |
| Public Works | Water Distribution | 481.30.393.5391.0000 | Telephone | O | \$ 3,895 | | 1,810 \$ | 2,780 \$ | 2,780 \$ | 2,863 \$ | 2,949 \$ | 3,038 \$ | 3,129 \$ | \$ 3,223 | \$ 3,319 5 | 3,419 \$ | | 3,627 |
| Public Works | Water Distribution | 481.30.393.5431.0000 | Contracted Services | O | \$ - | \$ 10,484 \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - S | - 5 | \$ - | S - 5 | 5 - 5 | S - S | - |
| Public Works | Water Distribution | 481.30.393.5455.0000 | Waste Disposal | O | \$ 40,052 | | 40,840 \$ | 52,500 \$ | 52,500 \$ | 54,075 \$ | | 57,368 \$ | 59,089 \$ | | \$ 62,688 \$ | 64,568 \$ | | 68,501 |
| Public Works | Water Distribution | 481.30.393.5470.0000 | Other Equipment Repair and Maintenance | O | \$ 78,492 | | 131,283 \$ | 277,950 \$ | 277,950 \$ | 286,289 \$ | 294,877 \$ | 303,723 \$ | 312,835 \$ | | \$ 331,887 \$ | 341,843 \$ | \$ 352,099 \$ | 362,662 |
| Public Works | Water Distribution | 481.30.393.5481.0000 | Rentals | O | \$ 2,247 | | 1,088 \$ | 5,000 \$ | 5,000 \$ | 5,150 \$ | | 5,464 \$ | 5,628 \$ | | \$ 5,970 \$ | 6,149 \$ | | 6,524 |
| Public Works | Water Distribution | 481.30.393.5650.0001 | Transfer To ISFs For Allocation | O | \$ 33,636 | | 29,160 \$ | 44,747 \$ | 45,122 \$ | 46,476 \$ | | 49,306 \$ | 50,786 | | \$ 53,878 \$ | | | 58,874 |
| Public Works | Water Distribution | 481.30.393.5650.0003 | Transfer To ISFs For Allocation | O | \$ 37,164 | | 43,824 \$ | 26,540 \$ | 34,849 \$ | 35,894 \$ | 36,971 \$ | 38,080 \$ | 39,223 \$ | \$ 40,399 | \$ 41,611 \$ | 42,860 \$ | \$ 44,145 \$ | 45,470 |
| Public Works | Water Distribution | 481.30.393.5740.0000 | Infrastructure | O | \$ 1,275 | | - \$ | - S | - S | - \$ | - \$ | - S | - 5 | \$ - | | 5 - 5 | S - S | - |
| Public Works | Water Distribution | 481.30.393.5770.0000 | Capital Equipment | O | \$ 23,361 | S - S | 1,042 \$ | 2,700 \$ | 2,700 \$ | 2,781 \$ | 2,864 \$ | 2,950 \$ | 3,039 \$ | \$ 3,130 | \$ 3,224 5 | 3,321 5 | \$ 3,420 \$ | 3,523 |
| Public Works | Water Distribution | 481.30.393.5902.0000 | Misc Transfers | O | \$ 666,585 | | - \$ | - S | - \$ | - \$ | - \$ | - S | - 5 | \$ - | S - 5 | 3 - 5 | s - s | |
| | | | Total Operating & Maintenance Expenses | | \$ 6,406,952 | \$ 5,803,767 \$ | 7,054,250 \$ | 7,867,340 \$ | 8,180,707 \$ | 8,764,289 \$ | 9,394,053 \$ | 10,040,085 \$ | 10,741,918 | \$ 11,504,870 | \$ 12,334,780 \$ | 13,238,063 | \$ 14,221,769 \$ | 15,293,642 |
| | | | | | | | | | | | | | | | | | | |
| | | | Summary by Budget Category | | | | | | | | | | | | | | | |
| | | | Billing / Customer Service | | 168,750 | 178,699 | 623,418 | 234,388 | 204,158 | 210,283 | 216,591 | 223,089 | 229,781 | 236,675 | 243,775 | 251,088 | 258,621 | 266,380 |
| | | | Administration | | 1,470,861 | 1,570,180 | 1,608,790 | 1,680,405 | 1,739,346 | 1,791,526 | 1,845,272 | 1,900,630 | 1,957,649 | 2,016,379 | 2,076,870 | 2,139,176 | 2,203,351 | 2,269,452 |
| | | | Pumping and Treatment | | 182,388 | 172,058 | 182,554 | 253,515 | 327,664 | 357,999 | 388,569 | 400,226 | 412,233 | 424,600 | 437,338 | 450,458 | 463,972 | 477,891 |
| | | | Water Distribution | | 1,624,154 | 1,108,714 | 1,236,136 | 1,569,758 | 1,609,539 | 1,674,481 | 1,740,621 | 1,792,840 | 1,846,625 | 1,902,023 | 1,959,084 | 2,017,857 | 2,078,392 | 2,140,744 |
| | | | Water Purchase | | 2,960,799 | 2,774,116 | 3,403,352 | 4,129,274 | 4,300,000 | 4,730,000 | 5,203,000 | 5,723,300 | 6,295,630 | 6,925,193 | 7,617,712 | 8,379,484 | 9,217,432 | 10,139,175 |
| | | | | | \$6,406,952 | \$5,803,767 | \$7,054,250 | \$7,867,340 | \$8,180,707 | \$8,764,289 | \$9,394,053 | \$10,040,085 | \$10,741,918 | \$11,504,870 | \$12,334,780 | \$13,238,063 | \$14,221,769 | \$15,293,642 |
| | | | | | | | | | 4.0% | 7.1% | 7.2% | 6.9% | 7.0% | 7.1% | 7.2% | 7.3% | 7.4% | 7.5% |
| | | | Administrative vs. Operating | | | | | | | | | | | | | | | |
| | | | Total Administrative O&M Expenses | A | \$ 993,471 | \$ 1,091,258 \$ | 1,128,524 \$ | 1,202,542 \$ | 1,258,671 \$ | 1,296,431 \$ | 1,335,324 \$ | 1,375,384 \$ | 1,416,646 \$ | \$ 1,459,145 | \$ 1,502,919 \$ | 1,548,007 \$ | \$ 1,594,447 \$ | 1,642,281 |
| | | | Total Operating O&M Expenses | 0 | \$ 5,413,480 | \$ 4,712,509 \$ | 5,925,726 \$ | 6,664,798 \$ | 6,922,036 \$ | 7,467,857 \$ | 8,058,729 \$ | 8,664,701 \$ | 9,325,273 \$ | \$ 10,045,725 | \$ 10,831,860 \$ | 11,690,056 | \$ 12,627,322 \$ | 13,651,361 |
| | | | | | , ., | . , , | | | | | | | | | | | | |

SCHEDULE 2B - DUPAGE WATER PURCHASE

| | 2009 | 2010 | | 2011 | | 2012 | | 2013 | - 2 | 2014 | | 2015 | | 2016 | 2 | 017 | | 2018 | | 2019 | 20 | 20 |
|-----------------------------------|--------------------|-----------|----|------------|----|-----------|----|--------------|-----|-----------|----|------------|----|--------------|------|-----------|----|------------|----|--------------|-------|----------|
| Account Name | Actuals | Adopted | | Projection | Pr | ojection | | Projection | Pro | jection |] | Projection | | Projection | Proj | ection | | Projection | F | Projection | Proje | ection |
| | | | | | | | | | | | | | | | | | | | | | | |
| Water Purchase - Fixed Charges | \$ 504,000 \$ | 504,000 | \$ | 504,000 | \$ | 554,400 | \$ | 609,840 \$ | 5 | 670,824 | \$ | 737,906 | \$ | 811,697 \$ | ; | 892,867 | \$ | 982,153 | \$ | 1,080,369 \$ | 1. | ,188,406 |
| Water Purchase - Variable Charges | \$ 2,899,352 \$ | 3,625,274 | \$ | 3,796,000 | \$ | 4,175,600 | \$ | 4,593,160 \$ | 5 | 5,052,476 | \$ | 5,557,724 | \$ | 6,113,496 \$ | 6 (| 5,724,846 | \$ | 7,397,330 | \$ | 8,137,063 \$ | 8 | ,950,769 |
| Total Water Purchase | \$ 3,403,352 S | 4.129.274 | S | 4,300,000 | S | 4,730,000 | S | 5,203,000 S | 6 | 5,723,300 | S | 6.295.630 | S | 6.925.193 S | | 7.617.712 | S | 8,379,484 | \$ | 9.217.432 \$ | 10. | 139,175 |

SCHEDULE 3 - OPERATING & MAINTENANCE RESERVE

| | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|-----------|------------------------------|----------------------------|----------------------------|----------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------|
| O&M Expenses | \$ | 7,867,340 \$ | 8,180,707 \$ | 8,764,289 \$ | 9,394,053 \$ | 10,040,085 \$ | 10,741,918 \$ | 11,504,870 \$ | 12,334,780 \$ | 13,238,063 \$ | 14,221,769 \$ | 15,293,642 |
| Target Balance (90 days operating) Begin Year Balance | \$ \$ | 1,939,892 \$ 2,291,968 \$ | 2,017,161 \$ 732,982 \$ | 2,161,058 \$ 685,998 \$ | 2,316,342 \$ 599,423 \$ | 2,475,637 \$ 1,080,692 \$ | 2,648,692 \$ 1,422,244 \$ | 2,836,817 \$ 2,011,363 \$ | 3,041,453 \$ (68,110) \$ | 3,264,180 \$ (2,672,223) \$ | 3,506,737 \$ (4,959,661) \$ | 3,771,035 (6,772,311) |
| Reserve Withdrawals Water O&M Reserve Contribution | <u>\$</u> | - \$ - \$ | - \$ 100,000 \$ | - \$ 100,000 \$ | - \$ 100,000 \$ | - \$ 100,000 \$ | - \$ 100.000 \$ | - \$ 100,000 \$ | - \$ 100,000 \$ | - \$ 100,000 \$ | - \$ 100,000 \$ | 100.000 |

SCHEDULE 4 - EXISTING DEBT SERVICE

| Debt Issue | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 201 | 6 | 2017 | 2018 | 2 | 2019 | 2020 |
|-----------------------------------|--------------|------------|------------|------------|------|------|---------|-----|------|------|------|----|------|------|
| Series 2001A (to finance AMR) | Principal \$ | 450,000 \$ | 470,000 \$ | 485,000 \$ | - | \$ - | \$ - | \$ | - \$ | - | \$ - | \$ | - 5 | - |
| Series 2001A (to finance AMR) | Interest \$ | 53,708 \$ | 33,003 \$ | 11,155 \$ | - | \$ - | \$ - | \$ | - \$ | - | \$ - | \$ | - 5 | - |
| Total Debt Service Payment | \$ | 503,708 \$ | 503,003 \$ | 496,155 \$ | - | \$ - | \$ - | \$ | - \$ | - | \$ - | \$ | - 5 | - |
| Total Principal Payment | \$ | 450,000 \$ | 470,000 \$ | 485,000 \$ | - | \$ - | \$ - | \$ | - \$ | - | \$ - | \$ | - 5 | - |
| Total Interest Payment | \$ | 53,708 \$ | 33,003 \$ | 11,155 \$ | | \$ - | \$ - | \$ | - \$ | - | \$ - | \$ | - 5 | · - |

SCHEDULE 5 - CAPITAL IMPROVEMENT PLAN

| | | | Project | | | | | | | | | | | | | | | Total |
|--------------|---|------|---------|------|--------------|-----------|-----------|--------|--------------|--------------|-------------------------------|--------------|------|------|------|----------|------------|------------|
| Project Code | Project | Fund | Type | | 2010 | 2011 | 2012 | | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | FY | 10 - FY 20 |
| WA-015 | Watermain Replacement, School Street | 481 | INF | \$ | 142,188 | | | | | | | | | | | | \$ | 142,188 |
| WA-017 | Watermain Replacement, Curtiss (Katrine to Belmont) | 481 | INF | | | | \$ 650, | 000 | | | | | | | | | \$ | 650,000 |
| WA-018 | Watermain Replacement, Wisconsin (Walnut to Janes) | 481 | INF | | | | \$ 650, | 000 | | | | | | | | | \$ | 650,000 |
| WA-019 | Watermain Replacement, Esterbrook Subdivision, Unit 1 | 481 | INF | | | | \$ 830, | 000 | | | | | | | | | \$ | 830,000 |
| WA-020 | Watermain Replacement, Dawn Place & Stanley Avenue | 481 | | \$ | 159,962 | | | | | | | | | | | | \$ | 159,962 |
| WA-021 | Watermain Replacement, Sheldon (Florence to Cumnor) | 481 | INF | \$ | 479,886 | | | | | | | | | | | | \$ | 479,886 |
| WA-022 | Watermain Replacement, Stanley (Prairie to Rogers) | 481 | | \$ | 231,056 | | | | | | | | | | | | \$ | 231,056 |
| WA-023 | Watermain Replacement, Lee (Grant to Chicago) | 481 | INF | | | | \$ 325, | | | | | | | | | | \$ | 325,000 |
| WA-024 | Watermain Replacement, Snowberry (Downers to End) | 481 | INF | | | | \$ 175, | | | | | | | | | | \$ | 175,000 |
| WA-025 | Watermain Replacement, 40th (Sterling to Fairview) | 481 | INF | | | | \$ 350, | | | | | | | | | | \$ | 350,000 |
| WA-026 | Watermain Interconnections | 481 | INF | | | | \$ 650, | | | | | | | | | | \$ | 650,000 |
| WA-028 | Watermain Replacement, Annual Element | 481 | INF | | | | \$ 1,600, | 000 \$ | 2,340,000 \$ | 2,400,000 \$ | 3,000,000 | | | | | | \$ | 9,340,000 |
| WA-029 | Watermain Relocation, Tollway Widening | 481 | INF | | | | | | | \$ | 500,000 | | | | | | \$ | 500,000 |
| WA-031 | Water Meter Replacement Program | | CAP | | \$ | 100,000 | \$ 200, | | | | | | | | | | \$ | 300,000 |
| WA-032 | Watermain Replacement, KKnottingham | | INF | | \$ | 125,000 | \$ 600, | 000 | | | | | | | | | \$ | 725,000 |
| WP-003 | Water Tank Painting, Summit | 481 | BLD | | | | | \$ | 600,000 | | | | | | | | \$ | 600,000 |
| WP-005 | Water Tank Painting, Maple | 481 | BLD | | \$ | 60,000 | \$ 600, | | | | | | | | | | \$ | 660,000 |
| WP-006 | Storage Building Installation, Maple Tower | 481 | BLD | | | | \$ 225, | 000 | | | | | | | | | \$ | 225,000 |
| WP-007 | Water Tank Painting, Finley | 481 | BLD | | | | | \$ | 60,000 \$ | 600,000 | | | | | | | \$ | 660,000 |
| WP-009 | Water System SCADA Improvements | 481 | SOFT | \$ | 100,000 | | \$ 120, | 000 | | _ | | | | | | | S | 220,000 |
| | Automated Meter Reading | | CAP | | | | | | | \$ | 1,750,000 \$ | 1,750,000 | | | | | \$ | 3,500,000 |
| | Total Capital Improvement Project | | | • | 1,113,093 \$ | 285,000 | \$ 6,975, | 2 000 | 3.000.000 S | 3,000,000 \$ | 5,250,000 \$ | 1,750,000 \$ | - s | - s | | s | - s | 21,373,093 |
| | Total Capital Improvement Project | | check | JP . | \$1,113,093 | \$285,000 | \$6,975 | | \$3,000,000 | \$3,000,000 | \$5.250,000 \$ \$5.250,000 | \$1,750,000 | \$0 | .so | | 50 50 | <u>\$0</u> | 21,373,093 |
| | | | criccii | | 01,110,000 | \$200,000 | 00,775, | 000 | \$5,000,000 | \$2,000,000 | 00,200,000 | 01,750,000 | | | | | 00 | |
| | | | | | | | | | | | | | | | | | | |
| | Capital Projects By Type | | | | | | | | | | | | | | | | | |
| | Buildings | | BLD | | - \$ | 60,000 | \$ 825, | | 660,000 \$ | 600,000 \$ | - \$ | - \$ | - S | - S | - | 4 | - \$ | 2,145,000 |
| | Capital Work in Progress | | CWIP | | - \$ | | ~ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - | \$ | - \$ | - |
| | Capital Equipment | | CAP | \$ | - \$ | 100,000 | \$ 200, | 000 \$ | - \$ | - \$ | 1,750,000 \$ | 1,750,000 \$ | - \$ | - \$ | - | 4 | - \$ | 3,800,000 |
| | Improvements | | IMP | \$ | - \$ | - | S | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - | \$ | - \$ | - |
| | Infrastructure | | INF | \$ | 1,013,093 \$ | 125,000 | \$ 5,830, | | 2,340,000 \$ | 2,400,000 \$ | 3,500,000 \$ | - \$ | - \$ | - \$ | - | \$ | - \$ | 15,208,093 |
| | Software | | SOFT | \$ | 100,000 \$ | - | \$ 120, | 000 \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - | \$ | - \$ | 220,000 |
| | Vehicles | | VEH | _\$ | - \$ | | 2 | - \$ | - \$ | - \$ | - \$ | - \$ | - S | - \$ | - | Ψ | - S | |
| | | | | \$ | 1,113,093 \$ | 285,000 | \$ 6,975, | 000 \$ | 3,000,000 \$ | 3,000,000 \$ | 5,250,000 \$ | 1,750,000 \$ | - \$ | - S | - | \$ | - \$ | 21,373,093 |

SCHEDULE 6A - CASH FUNDED CAPITAL IMPROVEMENT PROJECTS

| | | | Project | | | | | | | | | | | | | | | | | | | | | | Total |
|--------------|---|------|---------|----|--------------|-----------|----|------------|-----------|--------|---------|----------|---------|----|-----|----|------|----|------|----|------|----|------|----|------------|
| Project Code | | Fund | Type | | 2010 | 2011 | | 2012 | 2013 | 201 | 4 | 201 | 5 | 2 | 016 | | 2017 | | 2018 | | 2019 | | 2020 | FY | 10 - FY 20 |
| WA-015 | Watermain Replacement, School Street | 481 | INF | \$ | 142,188 \$ | - | \$ | - 5 | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 142,188 |
| WA-017 | Watermain Replacement, Curtiss (Katrine to Belmont) | 481 | INF | \$ | - S | - | \$ | 117,000 \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 117,000 |
| WA-018 | Watermain Replacement, Wisconsin (Walnut to Janes) | 481 | INF | \$ | - S | - | \$ | 117,000 \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 117,000 |
| WA-019 | Watermain Replacement, Esterbrook Subdivision, Unit 1 | 481 | INF | \$ | - S | - | \$ | 149,400 \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 149,400 |
| WA-020 | Watermain Replacement, Dawn Place & Stanley Avenue | 481 | INF | \$ | 159,962 \$ | - | \$ | - \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 159,962 |
| WA-021 | Watermain Replacement, Sheldon (Florence to Cumnor) | 481 | INF | \$ | 479,886 \$ | - | \$ | - \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 479,886 |
| WA-022 | Watermain Replacement, Stanley (Prairie to Rogers) | 481 | INF | \$ | 231,056 \$ | - | \$ | - \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 231,056 |
| WA-023 | Watermain Replacement, Lee (Grant to Chicago) | 481 | INF | \$ | - S | - | \$ | 58,500 \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 58,500 |
| WA-024 | Watermain Replacement, Snowberry (Downers to End) | 481 | INF | \$ | - S | - | \$ | 31,500 \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 31,500 |
| WA-025 | Watermain Replacement, 40th (Sterling to Fairview) | 481 | INF | \$ | - S | - | \$ | 63,000 \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 63,000 |
| WA-026 | Watermain Interconnections | 481 | INF | \$ | - S | - | \$ | 117,000 \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 117,000 |
| WA-028 | Watermain Replacement, Annual Element | 481 | INF | \$ | - S | - | \$ | - \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - |
| WA-029 | Watermain Relocation, Tollway Widening | 481 | INF | \$ | - S | - | \$ | - \$ | - : | \$ | - | \$ 5 | 00,000 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 500,000 |
| WA-031 | Water Meter Replacement Program | | CAP | \$ | - S | 100,000 | \$ | 36,000 \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 136,000 |
| WA-032 | Watermain Replacement, KKnottingham | | INF | \$ | - S | 125,000 | \$ | 108,000 \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 233,000 |
| WP-003 | Water Tank Painting, Summit | 481 | BLD | \$ | - S | - | \$ | - \$ | 600,000 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 600,000 |
| WP-005 | Water Tank Painting, Maple | 481 | BLD | \$ | - S | 60,000 | \$ | 108,000 \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 168,000 |
| WP-006 | Storage Building Installation, Maple Tower | 481 | BLD | \$ | - S | - | \$ | 40,500 \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 40,500 |
| WP-007 | Water Tank Painting, Finley | 481 | BLD | \$ | - S | - | \$ | - \$ | 60,000 | \$ 6 | 000,000 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 660,000 |
| WP-009 | Water System SCADA Improvements | 481 | SOFT | \$ | 100,000 \$ | - | \$ | 21,600 \$ | - 1 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | 121,600 |
| | Automated Meter Reading | | CAP | \$ | - S | - | \$ | - \$ | - : | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | \$ | |
| | Total Cash Funded Capital Improvement Projects | | | | \$1,113,093 | \$285,000 | | \$967,500 | \$660,000 | \$ | 600,000 | \$ | 500,000 | \$ | - | \$ | - | \$ | - | \$ | - | \$ | - | s | 4,125,593 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Capital Projects By Type Buildings | | BLD | s | - S | 60,000 | s | 148,500 \$ | 660,000 | s 6 | 000,000 | s | _ | s | _ | s | _ | s | _ | s | _ | s | _ | s | 1,468,500 |
| | Capital Work in Progress | | CWIP | | - S | | s | - 5 | , | s | - | s | - | s | | s | - | S | - | S | - | S | - | s | - |
| | Capital Equipment | | CAP | s | - S | 100,000 | s | 36,000 \$ | _ | ŝ | | s | - | s | _ | s | | s | - | s | - | S | - | s | 136,000 |
| | Improvements | | IMP | S | - s | - | s | - \$ | _ | s . | _ | \$ | - | s | | s | | s | _ | s | | S | | s | - |
| | Infrastructure | | INF | S | 1.013.093 \$ | 125,000 | s | 761,400 \$ | | \$ | | s 5 | 00,000 | s | | S | _ | Š | | s | | S | - | s | 2,399,493 |
| | Software | | SOFT | S | 100,000 S | 125,000 | s | 21,600 \$ | | S | | <u> </u> | - | s | | s | _ | Š | | s | | Š | - | s | 121,600 |
| | Vehicles | | VEH | S | - S | _ | s | - \$ | - | s S | _ | s | _ | \$ | _ | s | _ | s | _ | S | | S | | s | |
| | | | | \$ | 1,113,093 \$ | 285,000 | \$ | 967,500 \$ | 660,000 | | 600,000 | \$ 5 | 00,000 | \$ | - | \$ | | \$ | | \$ | - | \$ | - | \$ | 4,125,593 |

SCHEDULE 6B - BOND FUNDED CAPITAL IMPROVEMENT PROJECTS

| | | | Project | | | | | | | | | | | | | Total |
|--------------|---|---------------------------------------|--|---|--|--|--|--|--|---|--|--|--|--|--|--|
| Project Code | | Fund | Type | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | | Y 10 - FY 20 |
| WA-015 | Watermain Replacement, School Street | 481 | INF S | | \$ - | \$ - : | | - \$ | | - \$ | | \$ - | \$ - | - | - \$ | |
| WA-017 | Watermain Replacement, Curtiss (Katrine to Belmont) | 481 | INF S | | s - | \$ 533,000 | | - \$ | - \$ | - S | | s - | s - | 4 | - \$ | 533,000 |
| WA-018 | Watermain Replacement, Wisconsin (Walnut to Janes) | 481 | INF S | | s - | \$ 533,000 | | - \$ | - \$ | - S | | \$ - | \$ - | - | - \$ | 533,000 |
| WA-019 | Watermain Replacement, Esterbrook Subdivision, Unit 1 | 481 | INF S | | S - | \$ 680,600 | | - \$ | - \$ | - S | | \$ - | \$ - | - | - \$ | 680,600 |
| WA-020 | Watermain Replacement, Dawn Place & Stanley Avenue | 481 | INF S | | s - | \$ - : | | - \$ | - \$ | - \$ | | \$ - | \$ - | - | - \$ | - |
| WA-021 | Watermain Replacement, Sheldon (Florence to Cumnor) | 481 | INF S | | s - | \$ - : | | - \$ | - \$ | - S | | \$ - | \$ - | 4 | - \$ | - |
| WA-022 | Watermain Replacement, Stanley (Prairie to Rogers) | 481 | INF S | | s - | \$ - : | | - \$ | - \$ | - S | | \$ - | \$ - | 4 | - \$ | - |
| WA-023 | Watermain Replacement, Lee (Grant to Chicago) | 481 | INF S | | S - | \$ 266,500 | | - \$ | - \$ | - S | | \$ - | \$ - | - | - \$ | 266,500 |
| WA-024 | Watermain Replacement, Snowberry (Downers to End) | 481 | INF S | | S - | \$ 143,500 | | - \$ | - \$ | - \$ | | \$ - | \$ - | 4 | - \$ | 143,500 |
| WA-025 | Watermain Replacement, 40th (Sterling to Fairview) | 481 | INF S | | \$ - | \$ 287,000 | | - \$ | - \$ | - \$ | | \$ - | \$ - | 4 | - \$ | 287,000 |
| WA-026 | Watermain Interconnections | 481 | INF S | - | \$ - | \$ 533,000 | - S | - \$ | - \$ | - \$ | - | \$ - | \$ - | \$ | - \$ | 533,000 |
| WA-028 | Watermain Replacement, Annual Element | 481 | INF S | - | S - | \$ 1,600,000 | 2,340,000 \$ | 2,400,000 \$ | 3,000,000 \$ | - \$ | - | \$ - | S - | \$ | - \$ | 9,340,000 |
| WA-029 | Watermain Relocation, Tollway Widening | 481 | INF S | - | S - | \$ - | - S | - \$ | - \$ | - \$ | - | \$ - | S - | \$ | - \$ | - |
| WA-031 | Water Meter Replacement Program | | CAP S | - | S - | \$ 164,000 | - S | - \$ | - \$ | - \$ | - | \$ - | S - | \$ | - \$ | 164,000 |
| WA-032 | Watermain Replacement, KKnottingham | | INF S | - | S - | \$ 492,000 | - S | - \$ | - \$ | - \$ | - | \$ - | \$ - | \$ | - \$ | 492,000 |
| WP-003 | Water Tank Painting, Summit | 481 | BLD S | - | S - | \$ - | - S | - \$ | - \$ | - \$ | - | \$ - | \$ - | \$ | - \$ | - |
| WP-005 | Water Tank Painting, Maple | 481 | BLD S | - | S - | \$ 492,000 | - S | - \$ | - \$ | - \$ | - | \$ - | \$ - | \$ | - \$ | 492,000 |
| WP-006 | Storage Building Installation, Maple Tower | 481 | BLD S | - | s - | \$ 184,500 | - S | - \$ | - \$ | - \$ | - | S - | \$ - | \$ | - \$ | 184,500 |
| WP-007 | Water Tank Painting, Finley | 481 | BLD S | - | s - | \$ - | - S | - \$ | - \$ | - S | - | s - | s - | S | - \$ | - |
| WP-009 | Water System SCADA Improvements | 481 | SOFT S | - | S - | \$ 98,400 | - S | - \$ | - S | - S | _ | S - | S - | S | - \$ | 98,400 |
| | Automated Meter Reading | | CAP S | - | S - | \$ - | | - \$ | 1.750.000 \$ | 1.750,000 \$ | _ | s - | s - | S | - \$ | 3,500,000 |
| | ٥ | | _ | | | | | | | | | _ | | | | |
| | Total Bond Funded Capital Improvement Projects | | | \$0 | \$0 | \$6,007,500 | \$2,340,000 | \$2,400,000 | \$4,750,000 \$ | 1,750,000 \$ | - | s - | s - | \$ | - \$ | 17,247,500 |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | Bond | | | | | | | | | | | | | |
| | Future Debt By Future Series Bond | Funded | Amount | | | 0.07.500 | 2 240 000 . 6 | 2 400 000 . 5 | | | | 0 | | | | |
| | Bond 1 | Funded \$ 10, | Amount 747,500 S | | s - | \$ 6,007,500 | 2,510,000 0 | 2,400,000 \$ | - \$ | - \$ | | \$ - | \$ - | \$ | - | |
| | Bond 1 Bond 2 | \$ 10, \$ 6, | Amount 747,500 500,000 | - | s - | \$ - | - S | - \$ | 4,750,000 \$ | 1,750,000 \$ | - | \$ - | \$ - | \$ | | |
| | Bond 1 Bond 2 Bond 3 | \$ 10, \$ 6, | Amount 747,500 500,000 | - 5 - | \$ - \$ - | \$ - \$ - | - S - S | - \$ - \$ | 4,750,000 \$ - \$ | 1,750,000 \$ - \$ | - | \$ - \$ - | s - s - | s s | - - | |
| | Bond 1 Bond 2 Bond 3 Bond 4 | \$ 10, \$ 6, \$ 8 | Amount 747,500 500,000 5 | - - - - | \$ - \$ - \$ - | \$ - \$ - \$ - | - S - S - S | - \$ - \$ - \$ | 4,750,000 \$ - \$ - \$ | 1,750,000 \$ - \$ - \$ | - | \$ - \$ - \$ - | \$ - \$ - \$ - | \$ \$ \$ | | |
| | Bond 1 Bond 2 Bond 3 | Funded \$ 10, \$ 6, \$ \$ | Amount 747,500 5500,000 5 5 5 5 5 5 5 5 5 5 5 5 5 | - - - - - - | S - S - S - S - | \$ - : \$ - : \$ - : | - \$ - \$ - \$ - \$ | - \$ - \$ - \$ - \$ | 4,750,000 \$ - \$ - \$ - \$ | 1,750,000 \$ - \$ - \$ - \$ - \$ | - - - | \$ - \$ - \$ - \$ - | \$ - \$ - \$ - \$ - | \$ \$ \$ \$ | | |
| | Bond 1 Bond 2 Bond 3 Bond 4 | Funded \$ 10, \$ 6, \$ \$ | Amount 747,500 500,000 5 | - - - - - - | S - S - S - S - | \$ - \$ - \$ - | - \$ - \$ - \$ - \$ | - \$ - \$ - \$ | 4,750,000 \$ - \$ - \$ | 1,750,000 \$ - \$ - \$ | - | \$ - \$ - \$ - \$ - | \$ - \$ - \$ - \$ - | \$ \$ \$ | | |
| | Bond 1 Bond 2 Bond 3 Bond 4 Bond 5 | Funded \$ 10, \$ 6, \$ \$ | Amount 747,500 5500,000 5 5 5 5 5 5 5 5 5 5 5 5 5 | - - - - - - | S - S - S - S - | \$ - : \$ - : \$ - : | - \$ - \$ - \$ - \$ | - \$ - \$ - \$ - \$ | 4,750,000 \$ - \$ - \$ - \$ | 1,750,000 \$ - \$ - \$ - \$ - \$ | - - - | \$ - \$ - \$ - \$ - | \$ - \$ - \$ - \$ - | \$ \$ \$ \$ | | |
| | Bond 1 Bond 2 Bond 3 Bond 4 Bond 5 | Funded \$ 10, \$ 6, \$ \$ | Amount 747,500 500,0000 500,000 500,000 500,000 500,000 500,000 500,000 500,000 500,000 500,000 500,000 500,000 500,000 500,000 500,000 500,000 500,00 | 5 - 5 - 5 - 5 - | \$ - \$ - \$ - \$ - \$ - | \$ - : \$ - : \$ - : \$ - : \$ - : | - S - S - S - S - S - S | - \$ - \$ - \$ - \$ | 4,750,000 S - S - S - S 4,750,000 S | 1,750,000 \$ - \$ - \$ - \$ - \$ | - | s - s - s - s - | \$ - \$ - \$ - \$ - \$ - | \$ \$ \$ \$ | - - - | |
| | Bond 1 Bond 2 Bond 3 Bond 4 Bond 5 Capital Projects By Type Buildings | Funded \$ 10, \$ 6, \$ \$ | Amount 747,500 500,000 500,000 500,200 500,000 | 5 - 5 - 5 - 5 - | S - S - S - S - | \$ - : \$ - : | - S - S - S - S 2,340,000 S | - \$ - \$ - \$ - \$ | 4,750,000 \$ - \$ - \$ - \$ 4,750,000 \$ | 1,750,000 S - S - S - S 1,750,000 S | | S - S - S - S - S - | \$ - \$ - \$ - \$ - | \$ \$ \$ \$ \$ | - \$ | 676,500 |
| | Bond 1 Bond 2 Bond 3 Bond 4 Bond 5 Capital Projects By Type Buildings Capital Work in Progress | Funded \$ 10, \$ 6, \$ \$ | Amount 747,500 500,000 247,500 500,000 500,000 - 500,000 | 6 | S - S - S - S - | \$ - : \$ - : \$ - : \$ - : \$ \$ - : \$ \$ - : \$ \$ \$ - : \$ \$ \$ 6,007,500 : \$ \$ - : \$ | - S - S - S - S - S - S - S - S - S - S | - S - S - S 2,400,000 S | 4,750,000 S - S - S - S 4,750,000 S | 1,750,000 \$ - \$ - \$ - \$ 1,750,000 \$ | - - - - - | S - S - S - S - S - | \$ - \$ - \$ - \$ - \$ - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - \$ - \$ | ´- |
| | Bond 1 Bond 2 Bond 3 Bond 4 Bond 5 Capital Projects By Type Buildings Capital Work in Progress Capital Equipment | Funded \$ 10, \$ 6, \$ \$ | Amount 747,500 500,000 247,500 500,000 BLD CWIP CAP | 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - | S - S - S - S - | \$ - : \$ - : \$ - : \$ - : \$ - : \$ - : \$ - : \$ - : \$ - : \$ - : \$ 6,007,500 : \$ 6,007,500 : \$ - : \$ 164,000 : \$ 164,00 | - S - S - S - S - S - S - S - S - S - S | - \$ - \$ - \$ - \$ | 4,750,000 S - S - S - S 4,750,000 S | 1,750,000 S - S - S - S 1,750,000 S | - | S - S - S - S - S - S - S - | \$ - \$ - \$ - \$ - \$ - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - \$ - \$ - \$ | 676,500 - 3,664,000 |
| | Bond 1 Bond 2 Bond 3 Bond 4 Bond 5 Capital Projects By Type Buildings Capital Work in Progress Capital Equipment Improvements | Funded \$ 10, \$ 6, \$ \$ | Amount 747,500 5 500,000 5 | 6 - 6 - 6 - 6 - 6 - 6 - 7 - | \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - | \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - | - S - S - S - S - 2,340,000 S | - S - S - S - S - S - S - S - S - S - S | 4,750,000 S - S - S - S 4,750,000 S | 1,750,000 \$ - \$ - \$ - \$ 1,750,000 \$ | - - - - - | \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - | \$ - \$ - \$ - \$ - \$ - \$ - \$ - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - \$ - \$ | 3,664,000 |
| | Bond 1 Bond 2 Bond 3 Bond 4 Bond 5 Capital Projects By Type Buildings Capital Work in Progress Capital Equipment Improvements Infrastructure | Funded \$ 10, \$ 6, \$ \$ | Amount 747,500 5500,000 5 5 5 5 5 5 5 5 5 | 5 | S - S - S - S - S - S - S - S - S - S - | \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - | - S - S - S - S - S - S - S - S - S - S | - \$ - \$ - \$ - \$ 2,400,000 \$ | 4,750,000 \$ - \$ - \$ - \$ 4,750,000 \$ 1,750,000 \$ 1,750,000 \$ 3,000,000 \$ | 1,750,000 S - S - S - S 1,750,000 S - S 1,750,000 S - S - S - S | - - - - - - - - - - | S - S - S - S - S - S - S - S - S - S - | \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - \$ - \$ - \$ | 3,664,000 - 12,808,600 |
| | Bond 1 Bond 2 Bond 3 Bond 4 Bond 5 Capital Projects By Type Buildings Capital Work in Progress Capital Equipment Improvements Infrastructure Software | Funded \$ 10, \$ 6, \$ \$ | Amount 747,500 500,000 5 500,000 5 5 5 5 5 5 5 5 5 | 5 | \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - | \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - | - S - S - S - S - S - S - S - S - S - S | - S - S - S - S - S - S - S - S - S - S | 4,750,000 S - S - S - S 4,750,000 S | 1,750,000 S - S - S - S 1,750,000 S - S 1,750,000 S | - - - - - - - - - - | \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - | \$ - \$ - \$ - \$ - \$ - \$ - \$ - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - \$ - \$ - \$ - \$ - \$ | 3,664,000 |
| | Bond 1 Bond 2 Bond 3 Bond 4 Bond 5 Capital Projects By Type Buildings Capital Work in Progress Capital Equipment Improvements Infrastructure | Funded \$ 10, \$ 6, \$ \$ | Amount 747,500 500,000 - | | S - S - S - S - S - S - S - S - S - S - | \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - | - S - S - S - S - S - S - S - S - S - S | - \$ - \$ - \$ - \$ 2,400,000 \$ | 4,750,000 \$ - \$ - \$ - \$ 4,750,000 \$ 1,750,000 \$ 1,750,000 \$ 3,000,000 \$ | 1,750,000 S - S - S - S 1,750,000 S - S 1,750,000 S - S - S - S | - - - - - - - - - - - - | S - S - S - S - S - S - S - S - S - S - | \$ - \$ - \$ - \$ - \$ - \$ - \$ 5 - | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - \$ - \$ - \$ - \$ - \$ | 3,664,000 - 12,808,600 98,400 |
| | Bond 1 Bond 2 Bond 3 Bond 4 Bond 5 Capital Projects By Type Buildings Capital Work in Progress Capital Equipment Improvements Infrastructure Software | Funded \$ 10, \$ 6, \$ \$ | Amount 747,500 500,000 5 500,000 5 5 5 5 5 5 5 5 5 | 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - | S - S - S - S - S - S - S - S - S - S - | \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - | - S - S - S - S - S - S - S - S - S - S | - \$ - 5 - 5 - 5 2,400,000 \$ | 4,750,000 \$ - \$ - \$ - \$ 4,750,000 \$ 1,750,000 \$ 1,750,000 \$ 3,000,000 \$ | 1,750,000 S - S - S - S 1,750,000 S - S 1,750,000 S - S - S - S | - - - - - - - - - - - - | S - S - S - S - S - S - S - S - S - S - | \$ - \$ 5 - \$ | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | - \$ - \$ - \$ - \$ - \$ | 3,664,000 - 12,808,600 |

SCHEDULE 7 - PROJECTED DEBT

| | | | 2010 | | 2011 | | 2012 | | 2013 | | 2014 | | 2015 | 2016 | 2017 | 2018 | 2019 | | 2020 |
|--|--------------------------------------|----------------------|------------------|----------------------|------------------|----------------------|-------------------------------|----------------------|-----------------------------|----------------------|--|----------|-----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-------------|----------|-----------------------------------|
| Bond Series | | \$ | - | \$ | - | | Bond 1 | \$ | - | \$ | - | | Bond 2 | \$ - | Bond 3 \$ | - | Bond 4 | \$ | - |
| Projected Debt | | \$ | - | \$ | - | \$ | 10,747,500 | \$ | - | \$ | - \$ | \$ | 6,500,000 | \$ - \$ | - \$ | - \$ | - | \$ | - |
| Debt Subtotal | | \$ | - | \$ | - | \$ | 10,747,500 | \$ | - | \$ | - \$ | \$ | 6,500,000 \$ | \$ - \$ | - \$ | - \$ | - | \$ | - |
| Administrative Costs (% of principal) Administrative Costs Subtotal Total Debt | | \$ | 0.0% | \$ | 0.0% | \$ \$ | 1.5% 161,213 10,908,713 | | 0.0% | \$ | 0.0% - \$ - \$ | \$ \$ | 1.5% 97,500 \$ 6,597,500 \$ | 0.0% - \$ - \$ | 1.5% - \$ - \$ | 0.0% - \$ - \$ | 1.5% | \$ \$ | 0.0% |
| Debt Service Interest Rate Period (years) | | | 0.0% | | 0.0% | | 5.0% 20 | | 0.0% | | 0.0% | | 5.0% 20 | 0.0% | 5.0% 20 | 0.0% | 5.0% 20 | | 0.0% |
| Total Debt Service Principal Portion Interest Portion | | | - - - | | - - - | | 875,343 545,436 329,908 | | - | | - | | 529,400 329,875 199,525 | - | - - - | - - - | - - - | | - - - |
| Payment Schedule Yea | ar Funded | l | 2010 | | 2011 | | 2012 | | 2013 | | 2014 | | 2015 | 2016 | 2017 | 2018 | 2019 | | 2020 |
| Bond 1 Bond 2 Bond 3 Bond 4 | 2012 2015 2017 2019 2021 | \$ \$ \$ \$ | - - - - | \$ \$ \$ \$ | - - - - | \$ \$ \$ \$ | - - - - | \$ \$ \$ \$ | 875,343 - - - - | \$ \$ \$ \$ | 875,343 \$ - \$ - \$ - \$ - \$ | \$ \$ | 875,343 \$ - \$ - \$ | 875,343 \$ 529,400 \$ - \$ - \$ - \$ | 875,343 \$ 529,400 \$ - \$ - \$ - \$ | 875,343 \$ 529,400 \$ - \$ - \$ - \$ | 875,343 | | 875,343 529,400 - - - |
| Total Payment per Year | | \$ | - | \$ | - | \$ | - | \$ | 875,343 | \$ | 875,343 \$ | \$ | 875,343 | \$ 1,404,744 \$ | 1,404,744 \$ | 1,404,744 \$ | 1,404,744 | \$ | 1,404,744 |

SCHEDULE 8 - INTEREST INCOME

| | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | | 2017 | 2018 | 2019 | | 2020 |
|--------------------------------|-----------------|---------------|---------------|---------------|--------------------|-----------|-----------------|--------------------|---|-----------|-----------------|---------------------|---|------------|
| Cash Investments | \$ 2,312,236 | \$ 732,982 | \$ 780,258 | \$ 693,683 | \$ 1,174,952 \$ | 2,063,704 | \$ 3,312,751 | \$ 4,935,968 \$ | 8 | 6,999,073 | \$ 9,541,143 | \$ 12,604,196 \$ | | 16,233,386 |
| Interest Earned on Investments | | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | 5.00% | | 5.00% | 5.00% | 5.00% | : | 5.00% |
| TOTAL | \$ - | \$ 36,649 | \$ 39,013 | \$ 34,684 | \$ 58,748 \$ | 103,185 | \$ 165,638 | \$ 246,798 \$ | 5 | 349,954 | \$ 477,057 | \$ 630,210 \$ | ; | 811,669 |

SCHEDULE 9 - MISCELLANEOUS REVENUES

| | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------------------------------|--------------------|------------|---------|------------|------------|------------|------------|------------|------------|------------|---------------|------------|------------|------------|
| | Actuals | Actuals | Actuals | Adopted | Projection | Projection | Projection | Projection |
| Interest on Investments | \$ 319,518 \$ | 239,321 \$ | 99,030 | \$ 30,000 | \$ 26,500 | \$ 27,295 | \$ 28,114 | \$ 28,957 | \$ 29,826 | \$ 30,721 | \$ 31,642 \$ | 32,592 \$ | 33,569 \$ | 34,576 |
| Watering Permit Fee | \$ 1,110 \$ | 930 \$ | 1,170 | \$ 2,636 | \$ 2,716 | \$ 2,797 | \$ 2,881 | \$ 2,968 | \$ 3,057 | \$ 3,149 | \$ 3,243 \$ | 3,340 \$ | 3,441 \$ | 3,544 |
| Miscellaneous Revenues | \$ 3,012,957 \$ | - \$ | - : | \$ - | S - | \$ - | \$ - | S - | \$ - | \$ - | S - S | - \$ | - \$ | - |
| Admin Citation Fee | \$ 75 \$ | - \$ | - : | \$ - | S - | \$ - | \$ - | \$ - | \$ - | \$ - | s - s | - \$ | - \$ | - |
| Water Shut-Off Fee | \$ 39,530 \$ | 47,112 \$ | 36,344 | \$ 36,000 | \$ 36,000 | \$ 37,080 | \$ 38,192 | \$ 39,338 | \$ 40,518 | \$ 41,734 | \$ 42,986 \$ | 44,275 \$ | 45,604 \$ | 46,972 |
| Review & Inspection Fees | \$ 15,335 \$ | 10,295 \$ | 7,060 | \$ 10,000 | \$ 10,000 | \$ 10,300 | \$ 10,609 | \$ 10,927 | \$ 11,255 | \$ 11,593 | \$ 11,941 \$ | 12,299 \$ | 12,668 \$ | 13,048 |
| Costs Recovered for Services | \$ (5,078) \$ | 1,432 \$ | 1,416 | \$ 1,200 | \$ 1,200 | \$ 1,236 | \$ 1,273 | \$ 1,311 | \$ 1,351 | \$ 1,391 | \$ 1,433 \$ | 1,476 \$ | 1,520 \$ | 1,566 |
| Water System Capacity Charge | \$ 80,087 \$ | 57,273 \$ | 33,000 | \$ 35,000 | \$ 38,000 | \$ 39,140 | \$ 40,314 | \$ 41,524 | \$ 42,769 | \$ 44,052 | \$ 45,374 \$ | 46,735 \$ | 48,137 \$ | 49,581 |
| Water System Connection Charge | \$ 125,628 \$ | 96,565 \$ | 38,554 | \$ 40,000 | \$ 40,000 | \$ 41,200 | \$ 42,436 | \$ 43,709 | \$ 45,020 | \$ 46,371 | \$ 47,762 \$ | 49,195 \$ | 50,671 \$ | 52,191 |
| Water meter & Mike Sales | \$ 113,461 \$ | 71,773 \$ | 30,964 | \$ 35,000 | \$ 35,000 | \$ 36,050 | \$ 37,132 | \$ 38,245 | \$ 39,393 | \$ 40,575 | \$ 41,792 \$ | 43,046 \$ | 44,337 \$ | 45,667 |
| Penalties, etc. | \$ 150,000 \$ | 150,000 \$ | 150,000 | \$ 150,000 | \$ 150,000 | \$ 150,000 | \$ 150,000 | \$ 150,000 | \$ 150,000 | \$ 150,000 | \$ 150,000 \$ | 150,000 \$ | 150,000 \$ | 150,000 |
| Total Miscellaneous Revenues | \$ 3.852.623 S | 674.701 \$ | 397.538 | \$ 339.836 | \$ 339.416 | \$ 345.098 | \$ 350.951 | \$ 356.980 | \$ 363.189 | \$ 369.585 | \$ 376,173 \$ | 382.958 \$ | 389.947 S | 397.145 |

Model Index SCHEDULE 10A -CAPITAL ASSET RAW DATA

Village of Downers Grove Water Rate Study

| | | | | | | | | | Replacement | | Accumulated | | | Last Depreciation | , | | | | Replacement Cost | Panlacament C+ |
|------------------|---|------------|---------------|--|----------|----------|--------------------------|------------------|--------------|--------------------------------|--------------------------------|-----------------------------|-------------------------------|--------------------------|-----------------|--------------|----------------------|--------------|----------------------------|------------------------------|
| Asset # | Description | Asset Stat | tus Asset Cla | | | P Column | | Acquisition Year | Decade | Original Cost | Depreciation | Current Depreciation | Book Value | Date | Age Useful Life | | ENR Historical Value | | (Original Cost) | (Depreciated Value) |
| 000226 000218 | PUMP HOUSE BUILT 1962 PARK STREET RESERVOIR | A | bldg bldg | Buildings Buildings | 60 60 | p | 7/1/1963 7/1/1927 | 1963 1927 | 2030 1990 | \$12,683.58 \$43.293.00 | \$12,683.58 \$43,293.00 | \$143.22 \$0.00 | \$0.00 \$0.00 | 12/31/2008 | 47 60 83 60 | 2023 1987 | 901 206 | 8761 8761 | \$ 123,331 \$ 1.841,213 | \$ - |
| 000218 | PUMP HOUSE BUILT 1952 | A | bldg | Buildings | 60 | p D | 7/1/1952 | 1952 | 2020 | \$10.972.80 | \$10,972.80 | \$0.00 | \$0.00 | 4/30/2005 | 58 60 | 2012 | 569 | 8761 | S 1,641,213 S 168,950 | s - |
| 000228 | PUMP HOUSE BUILT 1957 | A | bldg | Buildings | 60 | p | 7/1/1957 | 1957 | 2020 | \$12,764.71 | \$12,764.71 | \$0.00 | \$0.00 | 4/30/2006 | 53 60 | 2017 | 724 | 8761 | \$ 154,464 | \$ - |
| 000230 | PUBLIC WORKS 5101 WALNUT 4 PARCELS | A | bldg | Buildings | 60 | p | 6/7/1997 | 1997 | 2060 | \$5,547,253.00 | \$1,395,920.06 | \$110,948.76 | \$4,151,332.94 | 12/31/2009 | 13 60 | 2057 | 5825 | 8761 | | \$ 6,243,747 |
| 000220 000219 | PUMP HOUSE BUILT 1977 | A | bldg | Buildings | 60 | p | 7/1/1978 | 1978 1972 | 2040 2040 | \$28,701.78 | \$20,089.63 \$17,132.91 | \$637.94 \$457.14 | \$8,612.15 | 12/31/2009 | 32 60 38 60 | 2038 2032 | 2776 1753 | 8761 8761 | | \$ 27,180 \$ 17,135 |
| 000219 | PUMP HOUSE BUILT 1971 PUMP HOUSE BUILT 1969 | A | bldg bldg | Buildings Buildings | 60 | p | 7/1/1972 7/1/1970 | 1972 | 2040 | \$20,561.42 \$18,297.00 | \$17,132.91 \$16,059.13 | \$457.14 \$406.89 | \$3,428.51 \$2,237.87 | 12/31/2009 12/31/2009 | 38 60 40 60 | 2032 | 1755 | 8761 | | \$ 17,135 \$ 14.197 |
| 000227 | PUMP HOUSE BUILT 1968 | A | bldg | Buildings | 60 | p D | 7/1/1969 | 1969 | 2030 | \$15,606.13 | \$14,044.07 | \$347.13 | \$1,562.06 | 12/31/2009 | 41 60 | 2029 | 1269 | 8761 | | \$ 10,784 |
| 000231 | WATER TOWER BASE FIRE # 4 | A | bldg | Buildings | 60 | p | 7/30/1984 | 1984 | 2050 | \$391,000.00 | \$220,824.66 | \$8,689.80 | \$170,175.34 | 12/31/2009 | 26 60 | 2044 | 4146 | 8761 | \$ 826,230 | \$ 359,601 |
| 000808 | WATER SYSTEM SECURITY ENHANCEMENTS | P | cwip | Cap. Work in Progress | | p | 12/31/2009 | 2009 | 2010 | \$13,033.48 | \$0.00 | \$0.00 | \$13,033.48 | | 1 0 | 2009 | 8570 | 8761 | | |
| 000908 | 2008 FREIGHTLINER MT55/UTILMASTER WATER | P | cwip | Cap. Work in Progress | | p | 11/14/2008 | 2008 | 2010 | \$153,185.40 | \$0.00 | \$0.00 | \$153,185.40 | | 2 0 | 2008 | 8310 | 8761 | | \$ 161,499 |
| 000263 | 29-01 AMR METERS 2003 AMR PROJECT IN TOWN WATER METERS | A | cap | Capital Equipment Capital Equipment | 4 | p | 4/30/2004 4/30/2003 | 2004 2003 | 2010 2010 | \$417,040.78 \$2,358,021.00 | \$417,040.78 \$2.358.021.00 | \$35,448.46 \$226.732.79 | \$0.00 \$0.00 | 12/31/2008 12/31/2007 | 7 4 | 2008 | 7115 6694 | 8761 8761 | | 5 - |
| 000320 | 2002 AMR PROJECT IN TOWN WATER METERS | Α Δ | cap | Capital Equipment | 4 | p | 4/30/2003 | 2003 | 2010 | \$1,229,226.00 | \$1,229,226.00 | \$220,732.79 | \$0.00 | 4/30/2006 | 8 4 | 2007 | 6538 | 8761 | | \$ - |
| 000252 | 67TH ST WATER TANK | A | imp | Improvements | 7 | p D | 4/3/2001 | 2001 | 2010 | \$1.879.167.00 | \$1,879,167.00 | \$71,587.31 | \$0.00 | 12/31/2008 | 9 7 | 2008 | 6342 | 8761 | | s - |
| 000249 | SUMMIT STREET WATER TANK STEEL | A | imp | Improvements | 60 | p | 7/1/1938 | 1938 | 2000 | \$350,900.00 | \$350,900.00 | \$0.00 | \$0.00 | 4/30/2006 | 72 60 | 1998 | 236 | 8761 | \$ 13,026,419 | \$ - |
| 000250 | DOWNERS DRIVE WATER TANK STEEL | A | imp | Improvements | 60 | p | 7/1/1957 | 1957 | 2020 | \$548,881.20 | \$548,881.20 | \$0.00 | \$0.00 | 4/30/2006 | 53 60 | 2017 | 724 | 8761 | | \$ - |
| 000251 | 71 ST WATER TANK STEEL | A | imp | Improvements | 60 | p | 7/1/1957 | 1957 | 2020 | \$453,300.00 | \$453,300.00 | \$0.00 | \$0.00 | 4/30/2006 | 53 60 | 2017 | 724 | 8761 | | 5 - |
| 000259 000258 | DOUGLAS & MAIN WTR IMPROV 60-96 2000 HYDRANT & WTR IMPROV 04-00 | A | imp | Improvements | 60 60 | p | 4/30/2003 4/30/2002 | 2003 2002 | 2070 2070 | \$1,105,781.00 \$988,655.00 | \$147,413.05 \$151.571.52 | \$22,116.18 \$19,773.63 | \$958,367.95 \$837,083.48 | 12/31/2009 12/31/2009 | 7 60 8 60 | 2063 2062 | 6694 6538 | 8761 8761 | | \$ 1,254,297 \$ 1,121,702 |
| 000258 | AA- WELL IMPROVEMENTS-HIST | A | imp | Improvements Improvements | 60 | p n | 4/30/2002 | 1999 | 2070 | \$19,864.00 | \$151,571.52 \$4,237.17 | \$19,773.03 \$397.29 | \$837,083.48 \$15.626.83 | 12/31/2009 | 8 60 | 2062 | 6060 | 8761 | | |
| 000260 | AA-WTR TANK IMPROV HISTORY | A | imp | Improvements | 60 | p | 4/30/1999 | 1999 | 2060 | \$3,161,592.00 | \$674,397.21 | \$63,233.77 | \$2,487,194.79 | 12/31/2009 | 11 60 | 2059 | 6060 | 8761 | | \$ 3,595,761 |
| 000262 | AA-HYDRANTS & WTR IMPROV HIST | A | imp | Improvements | 60 | p | 4/30/1999 | 1999 | 2060 | \$714,683.00 | \$152,448.60 | \$14,294.10 | \$562,234.40 | 12/31/2009 | 11 60 | 2059 | 6060 | 8761 | \$ 1,033,224 | \$ 812,828 |
| 000257 | MAPLE & BELMONT TANK | A | imp | Improvements | 60 | p | 4/30/1989 | 1989 | 2050 | \$1,124,000.00 | \$464,552.43 | \$22,481.17 | \$659,447.57 | 12/31/2009 | 21 60 | 2049 | 4615 | 8761 | | \$ 1,251,879 |
| 000256 | HIGHLAND/GOOD SAM TANK | A | imp | Improvements | 60 | p | 4/30/1988 | 1988 | 2050 | \$867,000.00 | \$375,672.85 | \$17,340.96 | \$491,327.15 | 12/31/2009 | 22 60 | 2048 | 4519 | 8761 | | \$ 952,538 |
| 000255 000248 | 04-98 71 ST ST TANK WASHOUT | A | imp | Improvements | 60 | p | 4/30/2004 7/1/1970 | 2004 1970 | 2020 2030 | \$117,060.00 \$523,300.00 | \$94,706.62 \$459,295.94 | \$16,765.03 \$11,637.10 | \$22,353.38 \$64.004.06 | 12/31/2009 12/31/2009 | 6 7 40 60 | 2011 2030 | 7115 1381 | 8761 8761 | | \$ 27,525 \$ 406,039 |
| 000248 | FINLEY SQUARE WATER TANK STEEL HIGHLAND GOOD SAM TANK PAINTING | Α Δ | imp | Improvements Improvements | 60 | p | 10/24/2006 | 2006 | 2070 | \$581,833.48 | \$180,877.90 | \$58,676.43 | \$400.955.58 | 12/31/2009 | 40 60 | 2050 | 7751 | 8761 | | \$ 453,202 |
| 000874 | SCADA SYSTEM RADIO | A | imp | Improvements | 15 | n n | 12/31/2008 | 2008 | 2030 | \$82,473.20 | \$5,498.21 | \$5,498.21 | \$76,974.99 | 12/31/2009 | 2 15 | 2023 | 8310 | 8761 | | \$ 81,153 |
| 000239 | WATERMAIN 1950-1959 | A | inf | Infrastructure | 70 | p | 4/30/1959 | 1950 | 2020 | \$1,364,648.00 | \$1,364,648.00 | \$9,167.93 | \$0.00 | 12/31/2009 | 60 70 | 2020 | 510 | 8761 | | |
| 000238 | WATERMAIN UP TO 1949 | A | inf | Infrastructure | 70 | p | 4/30/1949 | 1920 | 1990 | \$1,311,876.00 | \$1,311,876.00 | \$0.00 | \$0.00 | 4/30/2006 | 90 70 | 1990 | 251 | 8761 | | \$ - |
| 000872 | GIERTZ & WILSON WATERMAIN REPLACEMENT | A | inf | Infrastructure | 70 | p | 10/21/2009 | 2009 | 2080 | \$707,061.51 | \$2,356.87 | \$2,356.87 | \$704,704.64 | 12/31/2009 | 1 70 | 2079 | 8570 | 8761 | | \$ 720,410 |
| 000891 000928 | WATERMAIN REPLACE AUSTIN ST ROGERS ST WATERMAIN REPLACE | A | int | Infrastructure Infrastructure | 70 70 | p | 10/21/2009 | 2009 2009 | 2080 2080 | \$323,043.26 \$640,174.01 | \$1,076.81 \$2,133.91 | \$1,076.81 \$2,133.91 | \$321,966.45 \$638,040.10 | 12/31/2009 12/31/2009 | 1 70 | 2079 2079 | 8570 8570 | 8761 8761 | | \$ 329,142 \$ 652,260 |
| 000928 | ROGERS STREET RESURFACING | A | inf | Infrastructure | 70 | p n | 11/4/2009 | 2009 | 2080 | \$300,000.00 | \$1,000.00 | \$1,000.00 | \$299,000.00 | 12/31/2009 | 1 70 | 2079 | 8570 8570 | 8761 | | \$ 305,664 |
| 000247 | TCE PROJECT | A | inf | Infrastructure | 70 | p | 4/30/2005 | 2005 | 2080 | \$569,250.00 | \$53,117.92 | \$11,385.27 | \$516,132.08 | 12/31/2009 | 5 70 | 2075 | 7446 | 8761 | | \$ 607,284 |
| 000244 | WATERMAIN 2000-2003 | A | inf | Infrastructure | 70 | p p | 4/30/2003 | 2000 | 2070 | \$987,360.00 | \$131,626.20 | \$19,747.70 | \$855,733.80 | 12/31/2009 | 10 70 | 2070 | 6222 | 8761 | | |
| 000246 | 11-03 FAIRVIEW WATERMAIN IMPROVEMENTS | A | inf | Infrastructure | 70 | p | 4/30/2005 | 2005 | 2080 | \$491,729.88 | \$50,981.40 | \$10,927.65 | \$440,748.48 | 12/31/2009 | 5 70 | 2075 | 7446 | 8761 | | \$ 518,587 |
| 000245 | 12-03 WATERMAIN IMPROVEMENTS | A | inf | Infrastructure | 70 | p | 4/30/2005 | 2005 | 2080 | \$737,443.90 | \$76,456.44 | \$16,388.12 | \$660,987.46 | 12/31/2009 | 5 70 | 2075 | 7446 | 8761 | | \$ 777,721 |
| 000237 000236 | 04-98 71 ST WATERMAIN IMPROV 30-01 N BELMONT WTRMAIN | A | inf | Infrastructure Infrastructure | 70 70 | p | 4/30/2004 4/30/2004 | 2004 2004 | 2080 2080 | \$3,625.00 \$709,215.07 | \$456.40 \$89,289.70 | \$80.56 \$15,760.81 | \$3,168.60 \$619,925.37 | 12/31/2009 12/31/2009 | 6 70 6 70 | 2074 2074 | 7115 7115 | 8761 8761 | | \$ 3,902 \$ 763,340 |
| 000230 | WATERMAIN 1990-1999 | A | inf | Infrastructure | 70 | p n | 4/30/1999 | 1990 | 2060 | \$2,933,505.00 | \$625,743.75 | \$58,671.90 | \$2 307 761 25 | 12/31/2009 | 20 70 | 2060 | 4732 | 8761 | | \$ 4.272.675 |
| 000242 | WATERMAIN 1980-1989 | A | inf | Infrastructure | 70 | p | 4/30/1989 | 1980 | 2050 | \$2,623,938.00 | \$1,084,481.42 | \$52,481.48 | \$1,539,456.58 | 12/31/2009 | 30 70 | 2050 | 3237 | 8761 | | \$ 4,166,568 |
| 000241 | WATERMAIN 1970-1979 | A | inf | Infrastructure | 70 | p | 4/30/1979 | 1970 | 2040 | \$3,768,405.00 | \$2,311,131.04 | \$75,376.24 | \$1,457,273.96 | 12/31/2009 | 40 70 | 2040 | 1381 | 8761 | | \$ 9,244,878 |
| 000240 | WATERMAIN 1960-1969 | A | inf | Infrastructure | 70 | p | 4/30/1969 | 1960 | 2030 | \$2,718,841.00 | \$2,211,149.36 | \$54,395.53 | \$507,691.64 | 12/31/2009 | 50 70 | 2030 | 824 | 8761 | | \$ 5,397,920 |
| 000667 000666 | WATERMAIN REPLACEMENT CORNELL | A | inf | Infrastructure | 70 70 | p | 10/4/2006 | 2006 2006 | 2080 2080 | \$359,395.96 | \$22,797.87 \$37,676.08 | \$7,199.96 | \$336,598.09 | 12/31/2009 | 4 70 | 2076 2076 | 7751 7751 | 8761 8761 | | \$ 380,459 \$ 646,868 |
| 000730 | WATERMAIN REPLACEMENT 56TH & WILCOX PRAIRIE AVENUE RECONSTRUCTION | Α Δ | inf | Infrastructure Infrastructure | 70 | P | 10/26/2006 | 2006 | 2080 | \$609,970.72 \$502.077.68 | \$37,676.08 | \$12,219.82 \$0.00 | \$572,294.64 \$502.077.68 | 12/31/2009 | 1 70 | 2076 | 7/51 8570 | 8761 8761 | | \$ 513,268 |
| 000730 | WATERMAIN IMPROVEMENTS SUMMIT ST | A | inf | Infrastructure | 70 | D D | 12/31/2009 | 2009 | 2080 | \$709.522.88 | \$31,534,36 | \$15,767.18 | \$677.988.52 | 12/31/2009 | 3 70 | 2077 | 7966 | 8761 | | |
| 000810 | WATERMAIN REPLACE ELMORE AVE | A | inf | Infrastructure | 70 | p p | 12/31/2007 | 2007 | 2080 | \$708,783.66 | \$28,351.34 | \$14,175.67 | \$680,432.32 | 12/31/2009 | 3 70 | 2077 | 7966 | 8761 | \$ 779,520 | \$ 748,339 |
| 000811 | WATERMAIN REPLACE MAPLE & 55TH | A | inf | Infrastructure | 70 | p | 12/31/2009 | 2009 | 2080 | \$1,585,255.08 | \$0.00 | \$0.00 | \$1,692,936.47 | | 1 70 | 2079 | 8570 | 8761 | | |
| 000813 | WATERMAIN REPLACE BROOKBANK RE | A | inf | Infrastructure | 70 | p | 12/31/2008 | 2008 | 2080 | \$351,663.15 | \$7,033.26 | \$7,033.26 | \$344,629.89 | 12/31/2009 | 2 70 | 2078 | 8310 | 8761 | | |
| 000836 000873 | WATERMAIN ACADIA ON THE GREEN | A | int ie | Infrastructure | 70 70 | p | 12/31/2007 | 2007 2009 | 2080 2080 | \$56,843.40 \$2,192,192.51 | \$2,273.74 | \$1,136.87 | \$54,569.66 \$2,192,196.76 | 12/31/2009 | 3 70 | 2077 2079 | 7966 8570 | 8761 8761 | | |
| 000873 | SUNRIDGE SUB WATERMAIN REPLACEMENT 59TH STREET WATERMAIN REPLACEMENT | A | inf | Infrastructure Infrastructure | 70 70 | p | 12/31/2009 12/31/2009 | 2009 | 2080 | \$487,775.38 | \$0.00 \$0.00 | \$0.00 \$0.00 | \$487,775.38 | | 1 70 | 2079 | 8570 8570 | 8761 | | |
| 000892 | WATERMAIN REPLACE CARPENTER ST | A | inf | Infrastructure | 70 | p | 12/31/2009 | 2008 | 2080 | \$809,012.28 | \$16,180.25 | \$16,180.25 | \$792,832.03 | 12/31/2009 | 2 70 | 2078 | 8310 | 8761 | | |
| 000212 | LAND 5101 WALNUT PW | A | land | Land | | p | 4/30/1989 | 1989 | 1990 | \$2,029,747.90 | \$0.00 | \$0.00 | \$2,029,747.90 | | 21 0 | 1989 | 4615 | 8761 | \$ 3,853,222 | \$ 3,853,222 |
| 000192 | LAND PARCEL PUMPHOUSE DOWNERS DRIVE & OC | A | land | Land | | p | 4/30/1988 | 1988 | 1990 | \$111,570.00 | \$0.00 | \$0.00 | \$111,570.00 | | 22 0 | 1988 | 4519 | 8761 | | \$ 216,301 |
| 000193 | LAND PARCEL PUMPHOUSE 35TH & FINLEY | A | land | Land | | p | 4/30/1988 | 1988 | 1990 | \$10,700.00 | \$0.00 | \$0.00 | \$10,700.00 | | 22 0 | 1988 | 4519 | 8761 | | \$ 20,744 |
| 000208 | LAND PARCEL PUMPHOUSE 71ST CAMDEN | A | land land | Land Land | | p | 4/30/1988 4/30/1988 | 1988 1988 | 1990 1990 | \$3,320.00 \$2,060.00 | \$0.00 \$0.00 | \$0.00 \$0.00 | \$3,320.00 \$2,060.00 | | 22 0 | 1988 1988 | 4519 4519 | 8761 8761 | | \$ 6,436 \$ 3,994 |
| 000209 | LAND PARCEL PUMPHOUSE 924 W 67TH ST LAND PARCEL PUMPHOUSE 5233 KATRINE | A A | land | Land Land | | p n | 4/30/1988 | 1988 | 1990 | \$2,060.00 \$10.00 | \$0.00 \$0.00 | \$0.00 | \$2,060.00 | | 22 0 | 1988 | 4519 4519 | 8761 | | |
| 000210 | LAND PARCEL 1640 W 63RD ST | A | land | Land | | D D | 4/30/1988 | 1988 | 1990 | \$10.950.00 | \$0.00 | \$0.00 | \$10,950.00 | | 22 0 | 1988 | 4519 | 8761 | | |
| 000271 | GEOGRAPHIC INFORMATION SYSTEM SOFT&EQUIP | A | soft | Software | 7 | p | 4/17/1993 | 1993 | 2000 | \$27,769.00 | \$27,769.00 | \$0.00 | \$0.00 | 4/30/2006 | 17 7 | 2000 | 5210 | 8761 | | \$ - |
| 000747 | EDEN FIN SOFTWARE WATER FUND | A | soft | Software | 10 | p | 12/31/2009 | 2009 | 2020 | \$76,312.46 | \$0.00 | \$0.00 | \$76,312.46 | | 1 10 | 2019 | 8570 | 8761 | | |
| 000269 | 1999 FORD F350 #287 | A | veh | Vehicles | 9 | p | 1/1/1999 | 1999 | 2010 | \$39,152.00 | \$35,252.00 | \$244.81 | \$3,900.00 | 12/31/2009 | 11 9 | 2008 | 6060 | 8761 | | |
| 000274 | CASE 590 SL BACKHOE #281 | A | veh | Vehicles | 11 | p | 1/1/1997 | 1997 | 2010 | \$61,018.00 | \$61,018.00 | \$972.32 | \$0.00 | 12/31/2007 | 13 11 8 10 | 2008 2012 | 5825 6538 | 8761 8761 | | |
| 000265 | 2000 HONDA CIVIC #105 | A | veh | Vehicles | 10 | p | 1/1/2002 | 2002 | 2020 | \$20,238.22 | \$14,540.53 | \$1,748.85 | \$5,697.69 | 12/31/2009 | 8 10 | 2012 | 6538 | 8/61 | a 27,119 | a /,635 |

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SCHEDULE 10B -CAPITAL ASSET SUMMARY

| | Valu | es | | | | |
|-----------------------|------|------------------|-----|-----------------------------|-------------------|------------|
| Asset Category | Sum | of Original Cost | Sum | of Accumulated Depreciation | Sum of Book Value | |
| Buildings | \$ | 6,101,133 | \$ | 1,763,785 | \$ | 4,337,349 |
| Cap. Work in Progress | \$ | 166,219 | \$ | - | \$ | 166,219 |
| Capital Equipment | \$ | 4,004,288 | \$ | 4,004,288 | \$ | - |
| Improvements | \$ | 12,518,490 | \$ | 5,942,920 | \$ | 6,575,570 |
| Infrastructure | \$ | 28,562,608 | \$ | 9,463,372 | \$ | 19,206,922 |
| Land | \$ | 2,168,358 | \$ | - | \$ | 2,168,358 |
| Software | \$ | 104,081 | \$ | 27,769 | \$ | 76,312 |
| Vehicles | \$ | 120,408 | \$ | 110,811 | \$ | 9,598 |
| Grand Total | \$ | 53,745,586 | \$ | 21,312,944 | \$ | 32,540,328 |

| Asset Category | | Infrastructure | |
|-------------------|------|-----------------|-------------|
| C CD I | | · (0 ! ! . l.C. | 4) |
| Sum of Replacemen | | , 0 | (st) |
| Replacement Year | | Total | |
| | 1990 | \$ | 45,790,222 |
| | 2020 | \$ | 23,442,512 |
| | 2030 | \$ | 28,907,483 |
| | 2040 | \$ | 23,906,587 |
| | 2050 | \$ | 7,101,736 |
| | 2060 | \$ | 5,431,200 |
| | 2070 | \$ | 1,390,270 |
| | 2074 | \$ | 877,750 |
| | 2075 | \$ | 2,116,034 |
| | 2076 | \$ | 1,095,681 |
| | 2077 | \$ | 1,622,369 |
| | 2078 | \$ | 1,223,668 |
| | 2079 | \$ | 6,887,740 |
| Grand Total | | \$ | 149,793,251 |

| Asset Category | | (Multip | le Items) |
|---|------|---------|------------|
| Sum of Replacement Cost (Original Cost) Replacement Year | | Total | |
| Treprintent 1 tm | 1987 | \$ | 1,841,213 |
| | 1998 | \$ | 13,026,419 |
| | 2006 | \$ | 1,647,178 |
| | 2007 | \$ | 3,086,140 |
| | 2007 | \$ | 3,109,449 |
| | 2011 | \$ | 144,141 |
| | 2012 | \$ | 168,950 |
| | 2017 | \$ | 12,281,687 |
| | 2023 | \$ | 210,280 |
| | 2029 | \$ | 107,743 |
| | 2030 | \$ | 3,435,866 |
| | 2032 | \$ | 102,760 |
| | 2038 | \$ | 90,582 |
| | 2044 | \$ | 826,230 |
| | 2048 | \$ | 1,680,856 |
| | 2049 | \$ | 2,133,773 |
| | 2057 | \$ | 8,343,259 |
| | 2059 | \$ | 5,632,685 |
| | 2062 | \$ | 1,324,810 |
| | 2063 | \$ | 1,447,228 |
| | 2066 | \$ | 657,650 |
| Grand Total | | \$ | 61,298,900 |

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SCHEDULE 11 - REPAIR, RENEWAL AND REPLACEMENT RESERVE (3R RESERVE)

| | | | | 2011 | | 2012 | | 2013 | | 2014 | | 2015 | 2016 | | | 2017 | | 2018 | 2019 | 2020 |
|--|---------------------|--------------|-----------|--------------------|----------|-----------------|----------|-----------------|----------|---------------------------|----|--------------------------------|--------------|--------------------------|----|--------------------------|----------|-------------------------------|-------------------------------|-------------------|
| Required Annual Reinvestment - Above Ground Asset Data | | | | | | | | | | | | | | | | | | | | |
| Planned Reinvestment Buildings | | | s | 60,000 | s | 825,000 | \$ | 660,000 | \$ | 600,000 | \$ | - S | | _ | \$ | - : | s | - S | - S | _ |
| Capital Equipment | | | \$ | 100,000 | | 200,000 | | - | \$ | - | | 1,750,000 \$ | 1,75 | 50,000 | \$ | | \$ | - \$ | - 5 | - |
| Improvements Total Capital Investment | | | <u>\$</u> | 160,000 | \$ \$ | | \$ \$ | 660,000 | \$ \$ | 600,000 | \$ | - \$ 1,750,000 \$ | 1.74 | - 50,000 | \$ | | \$ \$ | - \$ - \$ | - 9 | |
| Total Capital investment | | | ş | 100,000 | Ф | 1,023,000 | ş | 000,000 | ş | 000,000 | J. | 1,750,000 \$ | 1,7. | ,000 | Þ | - | J | - 5 | | · - |
| Book Value of Fixed Assets | | | | | | | | | | | | | | | | | | | | |
| Buildings | | | | 6,101,133 | | 6,161,133 | | 6,986,133 | | | | 8,246,133 \$ | . , | 16,133 | | 8,246,133 | | 8,246,133 \$ | 8,246,133 | |
| Capital Equipment | | | | 4,152,465 | - | | | | | | | 4,452,465 \$ | . , | 02,465 | | 7,952,465 | | 7,952,465 \$ 12,518,490 \$ | 7,952,465 \$ 12,518,490 \$ | |
| Improvements Total Book Value of Assets | | | | | | | | | | | | 12,518,490 \$ 25,217,088 \$ | | 8,490 57,088 | | 12,518,490 28,717,088 | | 28,717,088 \$ | 28,717,088 | |
| Total Book value of Assets | | Rate of | Φ 2 | 22,772,000 | φ. | 22,732,000 | φ. | 23,757,000 | Φ 2 | .4,017,000 | Φ. | 23,217,000 3 | 20,70 | 77,000 | φ | 20,717,000 | φ | 20,717,000 \$ | 20,717,000 | 20,717,000 |
| | Useful Life | Reinvestment | | | | | | | | | | | | | | | | | | |
| Buildings | 50 | 2.00% | \$ | 62,023 | | | \$ | - | \$ | | \$ | 164,923 \$ | 10 | 54,923 | | 164,923 | | 164,923 \$ | 164,923 | |
| Capital Equipment | 15 | 6.67% | \$ | 176,831 | | 83,498 | | | \$ | 296,831 | | - S | | | \$ | 530,164 | | 530,164 \$ | 530,164 | |
| Improvements Total Calculated Above Ground Reserve Contribution | 50 | 2.00% | <u>\$</u> | 250,370 489,223 | | | \$ \$ | , | \$ \$ | 250,370 547,201 | \$ | 250,370 \$ 415,292 \$ | | 50,370 1 5,292 | | 250,370 945,457 | | 250,370 \$ 945,457 \$ | 250,370 \$ 945,457 \$ | |
| Total Calculated Above of build Reserve Contribution | | | 3 | 405,223 | J | 333,607 | J | 347,201 | J | 347,201 | J | 413,292 3 | 4 | 13,292 | J | 743,437 | , | 943,437 3 | 943,437 J | 743,437 |
| Required Annual Reinvestment - Buried Asset Data | | | | | | | | | | | | | | | | | | | | |
| Current Year Annual Inflation Rate | 2010 3.0% | | | | | | | | | | | | | | | | | | | |
| T. I.G. (2000 D. II.) | 6 45 700 222 | | | | | | | | | | | | | | | | | | | |
| Total Cost of Replacement in Arrears (2008 Dollars) Number of Years to Pay Off | \$ 45,790,222 20 | | | | | | | | | | | | | | | | | | | |
| Annual Cost for 20 Year Payoff | \$ 2,289,511 | | | | | | | | | | | | | | | | | | | |
| · | | | | 2011 | | 2012 | | 2013 | | 2014 | | 2015 | 2016 | | | 2017 | | 2018 | 2019 | 2020 |
| Future Annual Replacement Cost | | | \$ | - | \$ | | \$ | - | \$ | - | \$ | - \$ | | | \$ | | \$ | - \$ | - 5 | |
| Remaining Cost of Replacement (Inflated) | | | \$ | 2,358,196 | \$ | 2,428,942 | \$ | 2,501,811 | \$ | 2,576,865 | \$ | 2,654,171 \$ | 2,73 | 33,796 | \$ | 2,815,810 | \$ | 2,900,284 \$ | 2,987,293 | 3,076,911 |
| Total Required Annual Reinvestment | | | | 2,358,196 | | 2,428,942 | | 2,501,811 | | 2,576,865 | | 2,654,171 | 2,73 | 33,796 | | 2,815,810 | | 2,900,284 | 2,987,293 | 26,519,423 |
| CIP Planned Reinvestment - Buried Assets | | | \$ | 125,000 | \$ | 5,830,000 | \$ | 2,340,000 | \$ | 2,400,000 | \$ | 3,500,000 \$ | | - | \$ | - : | \$ | - \$ | - S | - |
| Planned Annual Reinvestment less Required Annual Reinvestment | | | \$ | (2,233,196) | \$ | 3,401,058 | \$ | 3,239,247 | \$ | 3,062,382 | \$ | 3,908,211 \$ | 1,17 | 4,415 | \$ | (1,641,394) | \$ | (2,900,284) \$ | (2,987,293) \$ | (26,519,423) |
| Total Calculated Buried Assets Reserve Contribution | | | | - | | - | | - | | - | | 244,634 | 3,28 | 37,398 | | 3,721,761 | | 3,884,051 | 3,930,245 | 3,977,825 |
| Total Calculated 3R Contribution Above Ground & Buried Assets Phase-In of 3R Reserve Contribution | | | \$ | 489,223 100% | \$ | 333,867 100% | \$ | 547,201 100% | \$ | 547,201 100% | \$ | 659,927 \$ 100% | 3,70 100% | 02,690 | \$ | 4,667,218 1 | \$ | 4,829,508 \$ 100% | 4,875,702 S | 4,923,282 100% |
| Recommended 3R Reserve Conribution | | | \$ | 489,223 | \$ | 333,867 | \$ | 547,201 | \$ | 547,201 | \$ | 659,927 \$ | 3,70 | 2,690 | \$ | 4,667,218 | \$ | 4,829,508 \$ | 4,875,702 | 4,923,282 |

SCHEDULE 12A - REVENUE REQUIREMENTS

| | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--------------------------------------|----|----------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Operating Costs | | | 0.400.505 | 0.51.000 | | 4004000 | 40 = 44 040 | 44 504050 | 40.004.000 | 40.000.000 | | |
| Total Operating Expenses | | 7,867,340 0 | 8,180,707 100,000 | 8,764,289 100,000 | 9,394,053 100,000 | 10,040,085 100,000 | 10,741,918 100,000 | 11,504,870 100,000 | 12,334,780 100,000 | 13,238,063 100,000 | 14,221,769 100,000 | 15,293,642 100,000 |
| Operating Reserve | | U | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 |
| Total Operating Expenses | | 7,867,340 | 8,280,707 | 8,864,289 | 9,494,053 | 10,140,085 | 10,841,918 | 11,604,870 | 12,434,780 | 13,338,063 | 14,321,769 | 15,393,642 |
| Capital Costs | | | | | | | | | | | | |
| Existing Debt Service | | 503,708 | 503,003 | 496,155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cash Funded Capital Projects | | 1,113,093 | 285,000 | 967,500 | 660,000 | 600,000 | 500,000 | 0 | 0 | 0 | 0 | 0 |
| Projected Debt Service | | 0 | 0 | 0 | 875,343 | 875,343 | 875,343 | 1,404,744 | 1,404,744 | 1,404,744 | 1,404,744 | 1,404,744 |
| 3R Reserve | | 0 | 489,223 | 333,867 | 547,201 | 547,201 | 659,927 | 3,702,690 | 4,667,218 | 4,829,508 | 4,875,702 | 4,923,282 |
| Total Capital Expenses | | 1,616,801 | 1,277,226 | 1,797,522 | 2,082,544 | 2,022,544 | 2,035,270 | 5,107,434 | 6,071,962 | 6,234,252 | 6,280,446 | 6,328,026 |
| Total Revenue Requirement | | 9,484,141 | 9,557,933 | 10,661,811 | 11,576,597 | 12,162,629 | 12,877,189 | 16,712,304 | 18,506,742 | 19,572,315 | 20,602,215 | 21,721,668 |
| Miscellaneous Other Revenues | | 339,836 | 339,416 | 345,098 | 350,951 | 356,980 | 363,189 | 369,585 | 376,173 | 382,958 | 389,947 | 397,145 |
| Use of Fund Balance | | 04.417 | 04.417 | 06.040 | 00.550 | 02.244 | 05.012 | 07.072 | 100 700 | 102.022 | 106.026 | 110 145 |
| Revenues from Westmont & Knottingham | | 84,417 | 84,417 | 86,949 | 89,558 | 92,244 | 95,012 | 97,862 | 100,798 | 103,822 | 106,936 | 110,145 |
| Revenues from Unmetered Water Sales | | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| Total Miscellaneous Revenues | | 429,253 | 428,833 | 437,048 | 445,509 | 454,224 | 463,201 | 472,447 | 481,970 | 491,780 | 501,883 | 512,289 |
| Net Revenue Requirement | | 9,054,889 | 9,129,101 | 10,224,764 | 11,131,088 | 11,708,405 | 12,413,988 | 16,239,857 | 18,024,771 | 19,080,535 | 20,100,332 | 21,209,378 |
| Revenues under Current Rates | | 7,560,051 | 7,573,804 | 7,498,066 | 7,423,085 | 7,348,855 | 7,275,366 | 7,202,612 | 7,130,586 | 7,059,280 | 6,988,688 | 6,918,801 |
| Surplus / (Shortfall) | | (1,494,838) | (1,555,297) | (2,726,698) | (3,708,003) | (4,359,550) | (5,138,622) | (9,037,245) | (10,894,185) | (12,021,255) | (13,111,644) | (14,290,578) |
| Required Breakeven Increase | | | 20.54% | 36.37% | 49.95% | 59.32% | 70.63% | 125.47% | 152.78% | 170.29% | 187.61% | 206.55% |
| Revenues with Annual Increases | S | 7,560,051 | \$ 7,573,804 | \$ 9,124,101 | \$ 10.219.764 \$ | 11,126,088 \$ | 11.703.405 \$ | 12.408.988 \$ | 16.234.857 \$ | 18,019,771 \$ | 19,075,535 \$ | 20,095,332 |
| Revenues from Unmetered Water Sales | \$ | 5,000 | , , | | , ., | 5,000 \$ | 5,000 \$ | , , | 5,000 \$ | 5,000 \$ | 5,000 \$ | 5,000 |
| | - | ., | , | , | , + | ., + | ., + | -, | ., + | ., + | ., | 2,222 |
| Surplus / (Shortfall) | \$ | 7,555,051 | (1,550,297) | \$ (1,095,663) | \$ (906,325) \$ | (577,316) \$ | (705,583) \$ | (3,825,870) \$ | (1,784,914) \$ | (1,055,764) \$ | (1,019,796) \$ | (1,109,047) |
| Annual Additional Increases | | | 20% | 12% | 9% | 5% | 6% | 31% | 11% | 6% | 5% | 6% |

SCHEDULE 12B - COST ALLOCATION

| | % | | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|-------------------|----------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|
| Actual Fixed vs. Variable | | | | | | | | | | | | |
| Operating Costs | % Fixed | | | | | | | | | | | |
| Total Operating Expenses | 55% | \$ | 4,499,389 \$ | 4,820,359 \$ | 5,166,729 \$ | 5,522,047 \$ | 5,908,055 \$ | 6,327,679 \$ | 6,784,129 \$ | 7,280,935 \$ | 7,821,973 \$ | 8,411,503 |
| Operating Reserve | 100% | \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 |
| Capital Costs | | | | | | | | | | | | |
| Existing Debt Service | 100% | \$ | 503,003 \$ | 496,155 \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | _ |
| Cash Funded Capital Projects | 100% | \$ | 285,000 \$ | 967,500 \$ | 660,000 \$ | 600,000 \$ | 500,000 \$ | - \$ | - \$ | - \$ | - \$ | - |
| Projected Debt Service | 100% | \$ | - \$ | - \$ | 875,343 \$ | 875,343 \$ | 875,343 \$ | 1,404,744 \$ | 1,404,744 \$ | 1,404,744 \$ | 1,404,744 \$ | 1,404,744 |
| 3R Reserve | 100% | \$ | 489,223 \$ | 333,867 \$ | 547,201 \$ | 547,201 \$ | 659,927 \$ | 3,702,690 \$ | 4,667,218 \$ | 4,829,508 \$ | 4,875,702 \$ | 4,923,282 |
| Total Fixed Revenue Requirements | | \$ | 5.876.615 \$ | 6,717,881 \$ | 7,349,273 \$ | 7.644.591 \$ | 8.043.325 \$ | 11,535,113 \$ | 12,956,091 \$ | 13.615.187 \$ | 14,202,419 \$ | 14,839,529 |
| Percentage Fixe | ed | - | 61% | 63% | 63% | 63% | 62% | 69% | 70% | 70% | 69% | 68% |
| Outside Costs | 0/ 37 1.1. | | | | | | | | | | | |
| Operating Costs Total Operating Expenses | % Variable 45% | \$ | 3,681,318 \$ | 3,943,930 \$ | 4,227,324 \$ | 4,518,038 \$ | 4,833,863 \$ | 5,177,192 \$ | 5,550,651 \$ | 5,957,128 \$ | 6,399,796 \$ | 6,882,139 |
| Operating Reserve | 0% | \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | 0,002,137 |
| operating reserve | 0,0 | Ψ. | | Ψ | • | Ψ | | • | Ψ | ų. | - | |
| Capital Costs | | | | | | | | | | | | |
| Existing Debt Service | 0% | \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - |
| Cash Funded Capital Projects | 0% | \$ | - \$ | - \$ | - \$ - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - |
| Projected Debt Service 3R Reserve | 0% 0% | \$ \$ | - \$ - \$ | - \$ - \$ | - S - S | - \$ - \$ | - |
| 3K Keseive | U% | э | - 5 | - 5 | - 3 | - 3 | - 5 | - 5 | - 3 | - 3 | - 5 | - |
| Total Variable Revenue Requirement | | \$ | 3,681,318 \$ | 3,943,930 \$ | 4,227,324 \$ | 4,518,038 \$ | 4,833,863 \$ | 5,177,192 \$ | 5,550,651 \$ | 5,957,128 \$ | 6,399,796 \$ | 6,882,139 |
| Percentage Variab | le | | 39% | 37% | 37% | 37% | 38% | 31% | 30% | 30% | 31% | 32% |
| | | | | | | | | | | | | |
| Allocation for Rates | | | | | | | | | | | | |
| Net Revenue Requirements | | \$ | 9,129,101 \$ | 10,224,764 \$ | 11,131,088 \$ | 11,708,405 \$ | 12,413,988 \$ | 16,239,857 \$ | 18,024,771 \$ | 19,080,535 \$ | 20,100,332 \$ | 21,209,378 |
| Fixed Costs | | | | | | | | | | | | |
| Administrative O&M Expenses | | \$ | 1,258,671 \$ | 1,296,431 \$ | 1,335,324 \$ | 1,375,384 \$ | 1,416,646 \$ | 1,459,145 \$ | 1,502,919 \$ | 1,548,007 \$ | 1,594,447 \$ | 1,642,281 |
| % of Existing Debt | 0% | \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - |
| % of Capital Improvement Plan | 0% | \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - |
| Total Fixed Costs | | \$ | 1,258,671 \$ | 1,296,431 \$ | 1,335,324 \$ | 1,375,384 \$ | 1,416,646 \$ | 1,459,145 \$ | 1,502,919 \$ | 1,548,007 \$ | 1,594,447 \$ | 1,642,281 |
| | | | | | | | | | | | | |
| Total Costs Allocated to User Rates | | \$ | 7,870,429 \$ | 8,928,332 \$ | 9,795,764 \$ | 10,333,021 \$ | 10,997,342 \$ | 14,780,712 \$ | 16,521,852 \$ | 17,532,528 \$ | 18,505,885 \$ | 19,567,098 |

| SCHEDULE 13A- | CUSTOMER AND CON | SUMPTION INFOR | MATION | | | | | | | | | v | illage of Downers Grove Water Rate Study | 2008 Detail | | | | | | | | |
|--|---|-------------------|---------------------------|--|---|-----------------------|---|---|-----------------------------|--|--|---|---|--|---|--|--|--|---|--|--|---|
| 2008 Actuals | | | | | | | | | | | | | | | | | Inside Village | | | Outside 1 | illage | |
| Count of Account s Inside Village Inside Total | Meter Size 5/8 1 1 1/2 2 3 4 4 6 10 | Church 8 10 4 12 | Industrial 13 14 22 21 10 | Multi Family 179 77 149 126 37 14 4 | Office 62 29 50 22 24 22 2 | Park 4 2 3 12 4 | Pool I I | Rest 14 6 23 15 6 2 | Retail 201 49 62 41 29 20 2 | School 3 6 13 18 4 6 4 | Single Family 11,788 543 48 4 1 | Grand Total 12,272 736 375 272 111 68 12 1 | | From 0 1 2 5 10 20 50 | To 1 2 5 10 20 50 and Over | \$ of Customer Total Consumption 474 474 474 474 474 474 4791 4.891 40.3437 14.835 122.771 33.536 504.415 16.401 45.5.50 72.146 1.192.452 | Single Family | % 6.01% % 17.51% 196 25.48% 196 28.89% 196 13.71% % 2.36% | # of Customer To 73 108 545 1,317 2,663 1,423 144 6,493 | Single F Allocated Con 73 Allocated Con 73 6,44 216 6,41 2.239 18.4 12.311 2.5,9 39,928 28,7 41,158 17,0,79 3,51 106,724 106,724 106,724 106,724 106,725 10,779 3,51 106,724 1 | Sumption % of Customers 1.12% | 6.02% 17.31% 24.34% 26.96% 15.95% |
| Knottingham Knottingham Tot Outside Village Outside Total Westment | 5/8 1 1 1/2 2 4 5/8 1 | 0 3 | 0 | 0 1 1 2 12 | 0 3 1 2 6 | 0 1 | 0 | 0 | 0 5 | 0 1 1 2 | 236 5 241 1,036 84 6 1,126 49 15 | 13,847 236 5 241 1,048 87 10 14 2 1,161 49 | | From 0 1 2 5 5 10 20 50 | To 1 2 5 10 20 50 and Over | # of Customer Total Consumption 46 46 27 54 127 518 284 2,332 636 9,900 850 27,626 1,402 310,994 3,372 351,460 | 3,372 47,92 3,326 28,13 9,780 132,22 15,342 295,8 26,060 662,53 52,686 885,4 240,894 1460,4 351,460 3513 | 11.88% 11.72% 9% 34.45% 34.45% 54.05% 95 91.81% 26 185.61% 848.64% | # of Customer Tod 0 0 0 0 0 2 8 8 96 | Al Consumption Allocated Con 9 9 9 0 9 9 0 2,60 9 9 2,386 28,386 28,386 28,386 | % of Customers 0.00% 0.0 | |
| Westmorf Total *usage in CCFs Inside Village Limit Knottingham Outside Village Lim Westmont Grand Total 2009 Actuals | Total Usage 2,223, 26, its 148) | 866 094 096 | 0 80 | O 602 | 0 217 | 0 26 | 0 2 | 0 6 7 | 0 410 | 0 57 | 64 13,815 | 64 15 8 118 | | From 0 1 2 5 10 20 50 | To 1 2 5 10 20 50 and Over | # of Customer Total Consumption 104 104 131 262 244 947 284 2,246 314 4,883 404 12,963 708 270,569 2,189 291,674 | Retail Accessed Consumption % of Custs 2_189 4.75 4.75 2_085 5.89 11.31 7_956 12.97 12.563 12_563 144.34 26_123 18.46 23_1,169 32_34 291_674 100° | 94 0.75% % 0.71% 1954 1.92% 196 2.73% 196 2.73% 196 4.31% 196 8.96% 89.63% | # of Customer Tot 2 | Reta Reta Reta Reta Reta Reta Reta Reta Reta | sumption % of Customers 5,71% 2,86% 11,43% 25,71% 31,43% 17,14% 5,71% | 3.51% 3.31% 8.92% 12.73% 13.63% 15.73% |
| Jurisdiction Inside Village | Meter Size 5/8 1 1 11/2 2 3 4 6 10 | Church 8 10 4 12 | Industrial 13 14 26 23 10 | Multi Family 190 79 149 133 37 20 4 | Office 73 30 51 25 24 22 2 | Park 4 3 3 12 4 | Pool 1 1 | Rest 14 6 24 17 6 2 | Retail 215 53 69 48 30 22 2 | School 3 6 13 18 4 6 4 1 | Single Family 12,331 639 55 5 1 | Grand Total 12,851 840 395 294 112 76 12 1 | | From 0 1 2 5 10 20 50 | To 1 2 5 10 20 50 and Over | ### a of Customer Total Consumption | Industrial Allocated Consumption % of Custs 439 3.64 423 3.42 1.203 5.01 1.338 8.20 1.164 1.346 22.16 1.346 22.16 1.346 22.16 1.346 22.16 1.346 22.16 1.346 22.16 1.346 22.16 1.346 22.16 1.346 1. | % 0.69% % 0.67% % 1.90% % 2.91% % 2.91% 196 5.20% 196 11.45% 77.18% | # of Customer Tot 4 0 0 0 10 5 2 14 14 15 15 15 15 15 15 | Offise and Consumption Allocated Con- 4 33 0 31 0 92 81 13 76 118 56 43 7,855 7,112 | ### sumption % of Customers 11.43% 0.00% 0.00% 28.57% 14.29% 5.71% 5.400% 40.00% | 0.43% 0.38% 1.15% |
| Knottingham Knottingham Knottingham Knottingham Total Outside Village Outside Total Westmont | 5/8 1 1 1/2 2 4 | 0 3 1 | 0 0 | 0 1 1 2 12 | 0 3 1 1 2 6 | 26 0 1 | 0 | 0 1 | 0 5 1 | 0 1 1 2 | 13,031 244 5 249 1,089 98 7 | 14,381 244 5 249 1,101 102 11 14 2 1,230 54 | | From 0 1 2 5 10 20 50 | To 1 2 5 10 20 50 and Over | # of Customer | Other Alkocated Consumption % of Custs 2,200 2,64 2,142 2,27 6,130 6,32 9,334 9,36 16,483 9,59 39,391 18,86 248,799 51,03 324,479 100 | % 0.66% % 1.89% % 2.88% % 5.08% 5% 12.14% 196 76.68% | # of Customer Tot 5 | al Consumption Allocated Con Chur Allocated Con | sumption % of Customers 27.78% 5.56% 16.67% 5.00% 0.00% | 16.25% |
| Westmont Total Grand Total 2009 Detail | *usage in CCFs Inside Village Limits Knottingham Outside Village Limi Westmont Grand Total | 22,553 | 0 86 \$ 0.51 | 0 628 winter bi-month 125% | 11220 22,440 | 0 27 CCF 1: 1: 3(| 5 | 0 70 % customers 55.7% 88.7% | 0 445 | 0 57 | 72 14.546 | 72 16:132 0 100 Over | 100 94 16 200 16 73 183 | omer Total Consumption 1,678 2,600 | Allocated Consumpt | | | | # of Customer Tot 0 0 0 0 0 5 7 8 20 | Obs. al Consumption Office O Allocated Con O 220 O 66 O 10 86 18 232 33 3,516 3,11 3,834 3,83 | sumption % of Customers 0.00% 0.00% 0.00% 0.00% 0.00% 25.00% 35.00% 6 40.00% | 0.52% 0.52% 1.56% 2.61% 4.85% 8.66% |
| | | 0 100 Over | 100 200 200 | # of Customer 5385 807 1264 7456 | Total Consumption 148,135 113,597 691,341 953,073 | Allocated Consumption | % of Customers 72% 11% 17% 100% | % of Consumption 37% 17% 46% 100% | | | | | | | | | | | | | | |

Total Usage Above WQN Total Usage within WQM Limits Total Usage

| Winter Di Monthly Multiplica | | | | Custon | ner Over | | |
|---|---|--|--|---|--|---|---|
| | | 18.44% | 32.89% | 55.57% | 47.86% | 29.87% | 37.01% |
| Winter Bi-Monthly Multiplier | 100% | 5.42% | 13.95% | Consump 29.93% | otion Over 28.38% | 12.98% | 19.51% |
| Inside Village - Single Family | Bi-Month 1 | | | | | | Annual Tota |
| | Di-Manu I | 1.980 | 3.778 | • | • | 3,502 | |
| # of Customers using More than WQ Multiplier # of Customers using Equal/Less than Multiplier | 11.808 | 9,872 | 3,778 8.182 | 6,726 5,367 | 5,748 6,454 | 8,729 | 21,73 38,60 |
| Total Customers | 11,808 | 11,852 | 11,960 | 12,093 | 12,202 | 12,231 | 60,33 |
| Total Usage Above WQN | | 6.099 | 19.686 | 72.722 | 55,269 | 18,993 | 172,76 |
| Total Usage within WQM Limits | 191,712 | 161,667 | 166,182 | 172,451 | 168,169 | 159,502 | 827,97 |
| Total Usage | 191,712 | 167,766 | 185,868 | 245,173 | 223,438 | 178,495 | 1,000,74 |
| Inside Village - Multi Family | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Total |
| of Customers using More than WQ Multiplier | 551 | 121 | 178 | 302 | 285 285 | 190 377 | 1,07 |
| # of Customers using Equal/Less than Multiplier Total Customers | 551 | 431 552 | 383 561 | 269 571 | 285 570 | 377 567 | 1,74 |
| T | | 1.613 | 6.381 | 8.426 | 8.358 | 5,348 | 30.12 |
| Total Usage Above WQN Total Usage within WQM Limits | 59,063 | 51,241 | 52,468 | 53,884 | 53,580 | 51,098 | 262,27 |
| Total Usage | 59,063 | 52,854 | 58,849 | 62,310 | 61,938 | 56,446 | 292,39 |
| Inside Village - Retail | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Tota |
| # of Customers using More than WQ Multiplier | | 129 | 174 | 182 | 182 | 141 | 80 |
| # of Customers using Equal/Less than Multiplier Total Customers | 359 359 | 232 361 | 192 366 | 178 360 | 187 369 | 233 374 | 1,02 |
| | 359 | | | | | | |
| Total Usage Above WQN Total Usage within WQM Limit | 47.189 | 2,122 34,132 | 6,133 40,802 | 15,637 43,532 | 17,940 42,775 | 4,925 36,487 | 46,75 197,72 |
| Total Usage | 47,189 | 36,254 | 46,935 | 59,169 | 60,715 | 41,412 | 244,48 |
| Inside Village - Industrial | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Tota |
| of Customers using More than WQ Multiplier | | 34 | 38 | 45 | 44 | 34 | 15 |
| of Customers using Equal/Less than Multiplier | 71 | 37 | 33 | 28 | 32 76 | 43 | 17 |
| | ,, | | | | | | |
| Fotal Usage Above WQN Fotal Usage within WQM Limits | 9.220 | 1,160 8,595 | 2,202 8,760 | 3,412 8,755 | 2,817 8.702 | 2,192 7,455 | 11,78 42,26 |
| Total Usage | 9,220 | 9,755 | 10,962 | 12,167 | 11,519 | 9,647 | 54,05 |
| Inside Village - Other | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Total |
| # of Customers using More than WQ Multiplier | | 168 | 217 | 231 | 245 | 202 | 1.06 |
| # of Customers using Equal/Less than Multiplier | 351 | 186 | 157 | 144 | 129 | 170 | 78 |
| Total Customers | 351 | 354 | 374 | 375 | 374 | 372 | 1,84 |
| Total Usage Above WQN Total Usage within WQM Limits | 41.494 | 5,732 35,969 | 14,990 36,473 | 33,744 34,986 | 38,086 35,909 | 11,785 35,311 | 104,33 178,64 |
| Total Usage within WQM Limite Total Usage | 41,494 | 41,701 | 51,463 | 68,730 | 73,995 | 47,096 | 282,98 |
| | | | | | | | |
| | | | | | | | |
| | 15.08 12.0624643 | | | | ner Over | | |
| | 15.08 12.0624643 | 82.76% | 85.55% | 87.70% | ner Over 78.13% otion Over | 64.23% | 79.20% |
| | | 82.76% 23.37% | 85.55% 49.42% | 87.70% | 78.13% | 64.23% 24.56% | 79.20% 41.80% |
| | | 23.37% | 49.42% | 87.70% Consump 51.56% | 78.13% stion Over | | 41.80% |
| Winter Quarter Multiplier Inside Village - Single Family of Customers using More than WQ Multiplier | Bi-Month 1 | 23.37% Bi-Month 2 4,020 | 49.42% Bi-Month 3 | 87.70% Consump 51.56% Bi-Month 4 | 78.13% otion Over 40.32% Bi-Month 5 | 24.56% Bi-Month 6 | 41.80% Annual Tota 43,82 |
| Winter Quarter Multiplier Inside Village - Single Family of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier | 100% | 23.37% Bi-Month 2 | 49.42% Bi-Month 3 | 87.70% Consump 51.56% Bi-Month 4 | 78.13% stion Over 40.32% Bi-Month 5 | 24.56% Bi-Month 6 | |
| Winter Quarter Multiplier Inside Village - Single Family # of Customers using More than WQ Multiplier # of Customers using Equal/Less than Multiplier Total Customers | Bi-Month 1 | 23.37% Bi-Month 2 4,020 831 4,851 | 49.42% Bi-Month 3 10,663 1,803 12,466 | 87.70% Consump 51.56% Bi-Month 4 11,096 1,527 12,623 | 78.13% btion Over 40.32% Bi-Month 5 9,943 2,795 12,738 | 24.56% Bi-Month 6 8,105 4,668 12,773 | 41.80% Annual Tota 43,82 11,62 55,45 |
| Winter Quarter Multiplier Inside Village - Single Family of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier trial Customers with Equal Less than Multiplier trial Customers with Equal Less than Multiplier trial Customers and Equal Less than Multiplier trial Customers | Bi-Month 1 | 23.37% Bi-Month 2 4,020 831 | 49.42% Bi-Month 3 | 87.70% Consump 51.56% Bi-Month 4 11,096 1,527 | 78.13% stion Over 40.32% Bi-Month 5 | 24.56% Bi-Month 6 8,105 4,668 | 41.80% Annual Tota 43,82 11,62 |
| Winter Quarter Multiplier Inside Village - Single Family of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier for Customers using Equal Less than Multiplier fortal Customers Tead Liuge Above WQV Tead Liuge Wintle MyQ Limite | Bi-Month 1 12,247 12,247 | 23.37% Bi-Month 2 4,020 831 4,851 15,851 | 49.42% Bi-Month 3 10,663 1,803 12,466 145,518 | 87.70% Consump 51.56% Bi-Month 4 11,096 1,527 12,623 139,800 | 78.13% stion Over 40.32% Bi-Month 5 9,943 2,795 12,738 80,819 | 24.56% Bi-Month 6 8,105 4,668 12,773 35,896 | 41.80% Annual Tota 43,82 11,62 55,45 417,88 619,28 |
| Winter Quarter Multiplier Inside Village - Single Family of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier rold Customers Field Usage Above WQN Total Usage without WQM Limits | Bi-Month 1 12,247 12,247 | 23.37% Bi-Month 2 4,020 831 4,851 15,851 57,193 73,044 | 49.42% Bi-Month 3 10,663 1,803 12,466 145,518 143,268 288,786 | 87.70% Consump 51.56% Bi-Month 4 11,096 1,527 12,623 139,800 143,051 282,851 | 78.13% stion Over 40.32% Bi-Month 5 9,943 2,795 12,738 80,819 139,844 220,663 | 24.56% Bi-Month 6 8,105 4,668 12,773 35,896 135,928 171,824 | 41.80% Annual Tota 43.82 11.62 55.45 417.88 619.28 1,037,16 |
| Winter Quarter Multiplier Inside Village - Single Family of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier rold Customers Field Usage Above WQN Total Usage within WQM Limit Total Usage Inside Village - Multi Family of Customers using More than WQ Multiplier | Bi-Month I 12,247 12,247 147,729 147,729 Bi-Month I | 23.37% Bi-Month 2 4,020 831 4,851 15,851 57,193 73,044 Bi-Month 2 225 | 49.42% Bi-Month 3 10,663 1,803 12,466 145,518 143,268 288,786 Bi-Month 3 | 87.70% Consump 51.56% Bi-Month 4 11,096 1,527 12,623 139,800 143,051 282,851 Bi-Month 4 527 | 78.13% stion Over 40.32% Bi-Month 5 9,943 2,795 12,738 80,819 139,844 220,663 Bi-Month 5 | 24.56% Bi-Month 6 8,105 4,668 12,773 35,896 135,928 171,824 Bi-Month 6 | 41.80% Annual Tota 43,81 11,62 55,42 417,88 619,28 1,037,16 Annual Tota 2,15 |
| Winter Quarter Multiplier Inside Village - Single Family of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier of Customers Ford Using Abow WQN Tead Using Abow WQN Limit tead Using with WQN Limit tead Using with WQN Limit oral Using with WQN Limit oral Using with WQN Multiplier of Customers using More than WQ Multiplier of Customers using More than WQ Multiplier of Customers using Result See Alm Multiplier | 100% Bi-Month 1 12,247 12,247 147,729 147,729 | 23.37% Bi-Month 2 4,020 831 4,851 15,851 57,193 73,044 Bi-Month 2 | 49.42% Bi-Month 3 10,663 1,803 12,466 145,518 143,268 288,786 Bi-Month 3 | 87.70% Consump 51.56% Bi-Month 4 11,096 1,527 12,623 139,800 143,051 282,851 Bi-Month 4 | 78.13% stion Over 40.32% Bi-Month 5 9,943 2,795 12,738 80,819 139,844 220,663 Bi-Month 5 | 24.56% Bi-Month 6 8,105 4,668 12,773 35,896 135,928 171,824 Bi-Month 6 | 41.80% Annual Tota 43,82 11,62 55,45 417,88 619,28 1,037,16 Annual Tota 2,15 45 |
| Winter Quarter Multiplier Inside Village - Single Family If of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier rotal Customers Total Usage Above WQN Total Usage Above WQN Inside Village - Multi Family of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier of Customers using Equal Less than Multiplier of Customers using Equal Less than Multiplier | Bi-Month 1 12,247 12,247 147,729 147,729 Bi-Month 1 1 570 | 23.37% Bi-Month 2 4,020 831 4,851 15,851 57,193 73,044 Bi-Month 2 225 40 265 | 49.42% Bi-Month 3 10,663 1,803 12,466 145,518 143,268 288,786 Bi-Month 3 497 83 580 | 87.70% Consum; 51.56% Bi-Month 4 11,096 11,097 12,623 139,800 143,051 282,851 Bi-Month 4 527 60 587 | 78.13% otton Over 40.32% Bi-Month 5 9,943 2,795 12,738 80,819 139,844 220,663 Bi-Month 5 490 102 592 | 24.56% Bi-Month 6 8,105 4,668 12,773 35,896 135,928 171,824 Bi-Month 6 418 166 584 | 41.80% Annual Tota 43.81 11,62 55,42 417.88 619.28 1,037,16 Annual Tota 2,12 44 2,66 |
| Winter Quarter Multiplier Inside Village - Single Family of Customers using More than WQ Multiplier of Customers using Famil Less than Multiplier rotal Customers Total Usage Above WQV Total Usage with WQM Limit Total Usage of Customers using More than WQ Multiplier of Customers using More than WQ Multiplier of Customers using More than WQ Multiplier of Customers using Famil Less than Multiplier Total Customers Total Customers Total Customers Total Customers Total Customers Total Usage Above WQV Total Usage Above WQV Total Usage Above WQV Total Usage Above WQV Total Usage Willow WQM Limit | 12.247 12.247 12.247 147,729 147,729 183-Month 1 570 570 | 23.37% Bi-Month 2 4,020 831 4,881 15,851 57,193 73,044 Bi-Month 2 225 40 265 3,772 12,948 | 49.42% Bi-Month 3 10,663 1,803 12,466 145,18 143,268 288,786 Bi-Month 3 497 83 580 50,314 44,849 | 87.70% Consump 51.56% Bi-Month 4 11,096 1,527 12,623 139,800 143,051 282,851 Bi-Month 4 527 60 587 26,620 144,817 | 78.13% obtion Over 40.32% Bi-Month 5 9,943 2,795 12,738 80.819 139.844 220.663 Bi-Month 5 102 592 18,995 44,432 | 24.56% Bi-Month 6 8,105 4,668 12,773 35,896 135,928 171,824 Bi-Month 6 418 166 584 11,563 44,156 | 41.80% Annual Tota 43,82 11,62 155,45 417,88 619,28 1,037,16 Annual Tota 2,15 45 2,66 110,84 |
| Winter Quarter Multiplier Inside Village - Single Family of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier of Customers using Equal Less than Multiplier total Customers Total Usage Above WQN fortal Livage within WQM Limit Total Usage of Customers using More than WQ Multiplier of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier Total Customers | Bi-Month I 12,247 12,247 147,729 147,729 Bi-Month I 570 | 23.37% Bi-Month 2 4,020 831 4,851 15,851 57,193 73,044 Bi-Month 2 225 40 265 | 49.42% Bi-Month 3 10,663 1,803 12,466 145,18 143,288 143,288 Bi-Month 3 8 83 580 50,314 | 87.70% Consump 15.56% Bi-Month 4 11,096 1,527 12,623 139,800 143,051 282,851 Bi-Month 4 527 60 587 | 78.13% oston Over 40.32% 40.32% 59.24 | 24.56% Bi-Month 6 8,105 4,668 12,773 35,896 135,928 171,824 Bi-Month 6 418 166 584 | 41.80% Annual Tota 43,8; 11,6; 55,4; 417,88 619,28 1,037,16 Annual Tota 2,1; 44 2,66 110,84 |
| Minter Quarter Multiplier Inside Village - Single Family of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier of Customers using Equal Less than Multiplier of Customers using Capal Less than Multiplier of Customers using More than WQ Multiplier of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier of Customers using Equal Less than Multiplier of Customers using Equal Less than Multiplier for Customers using Usani Less than Multiplier for Customers using Capal Less than Multiplier for Customers using More than WQ Multiplier for More More More More More More More Mo | 12.247 12.247 12.247 147,729 147,729 183-Month 1 570 570 | 23.37% Bi-Month 2 4,020 831 4,881 15,881 57,193 73,044 Bi-Month 2 225 40 265 3,772 12,048 16,720 | 49.42% Bi-Month 3 10,663 1,803 12,466 145,518 143,268 288,786 Bi-Month 3 497 83 580 50,314 44,849 95,163 | 87.70% Consump 51.56% Bi-Month 4 11,096 1,527 12,623 139,805 143,051 282,851 Bi-Month 4 527 60 587 26,201 44,817 71,018 | 78.13% stion Over 40.32% Bi-Month 5 9,943 2,795 12,738 80,819 139,844 220,663 Bi-Month 5 490 102 592 18,995 44,432 63,427 | 24.56% Bi-Month 6 8,105 4,668 12,773 35,896 135,928 171,824 Bi-Month 6 418 166 584 11,63 55,719 | 41.80% Annual Tota 43.8: 11.6: 55.4: 417.88: 619.28 1,037.16 Annual Tota 2,1: 42.26:66 110.8- 110.8- 191.26 302.0- |
| Winter Quarter Multiplier Inside Village - Single Family of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier of Customers using Equal Less than Multiplier static Customers Tead Usage Abow WQN Tead Usage Abow WQN Inside Village - Multi Family of Customers using More than WQ Multiplier of Customers using More than WQ Multiplier Ford Customers Tead Customers Tead Customers Tead Usage Abow WQN Tead Usage within WQM Limit Tetal Usage Inside Village - Retail | 100% Bi-Month I 12,247 12,247 147,729 Bi-Month I 570 45,346 45,346 | 23.37% Bi-Month 2 4,020 831 4,881 15,881 57,193 73,044 Bi-Month 2 225 40 265 3,772 12,048 16,720 | 49.42% Bi-Month 3 10,663 1,803 12,466 145,518 143,268 288,786 Bi-Month 3 497 83 580 50,314 44,849 95,163 | 87.70% Consump 51.56% Bi-Month 4 11,096 1,527 12,623 139,805 143,051 282,851 Bi-Month 4 527 60 587 26,201 44,817 71,018 | 78.13% stion Over 40.32% Bi-Month 5 9,943 2,795 12,738 80,819 139,844 220,663 Bi-Month 5 490 102 592 18,995 44,432 63,427 | 24.56% Bi-Month 6 8,105 4,668 12,773 35,896 135,928 171,824 Bi-Month 6 418 166 584 11,63 55,719 | 41.80% Annual Tota 43,82 11,62 11,62 11,63 11,037,16 Annual Tota 2,15 45 2,666 110,84 191,20 302,04 |
| Winter Quarter Multiplier Inside Village - Single Family of Customers using More than WQ Multiplier of Customers using Equal Less than Multiplier Total Customers Total Lingar Abrow WQV Total Usage within WQM Limit Total Usage Inside Village - Multi Family of Customers using Equal Less than Multiplier of Customers using Equal Less than Multiplier of Customers using Equal Less than Multiplier Total Customers Total Usage Abrow WQN Total Usage within WQM Limit total Usage within WQM Limit total Usage Abrow WQN Total Usage within WQM Limit | 100% Bi-Month I 12,247 12,247 147,729 Bi-Month I 570 45,346 45,346 | 23.37% Bi-Month 2 4,020 831 4,881 15,851 57,193 73,044 Bi-Month 2 225 40 265 16,720 Bi-Month 2 | 49.42% Bi-Month 3 10,663 1,803 12,466 145,518 143,268 288,786 Bi-Month 3 580 580 95,163 Bi-Month 3 | 87.70% Consump 51.56% Bi-Month 4 11,096 1,527 12,623 139,800 143,051 282,851 Bi-Month 4 527 60 587 26,201 44,817 71,018 Bi-Month 4 | 78.13% tition Over 40.32% Bi-Month 5 9,943 2,795 12,738 80,819 139,844 220,663 Bi-Month 5 49,90 102 592 18,995 44,432 63,427 Bi-Month 5 | 24.56% Bi-Month 6 8,105 4,668 12,773 35,896 135,928 171,824 Bi-Month 6 584 11,56 55,719 Bi-Month 6 | 41.80% Annual Tota 43,82 11,62 11,62 11,62 1,037,16 Annual Tota 2,15 45 2,66 110,84 191,20 Annual Tota Annual Tota 45 45 46 46 47 48 49 48 48 48 48 48 48 48 48 48 48 48 48 48 |

82.4227517 99.6387009 148.117077 165.656595 136.012427 103.498523 133.6671538 101.426667 138.75 196.74359 131.530864 132.935897 105.443038 141.2916667

Village of Downers Grove Water Rate Study

| | | 14.70% | 35.46% | 52.40% | 42.79% | 31.04% | 35.39% |
|--|------------|------------------|------------------|-------------|----------------|---------------|-------------|
| | | | | Consum | ption Over | | |
| | | 14.76% | 15.50% | 26.45% | 23.76% | 10.92% | 18.84% |
| Outside Village - Single | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Tota |
| of Customers using More than WQ Multiplier | | 157 | 385 | 572 | | 341 | 1,9 |
| # of Customers using Equal/Less than Multiplier | 1,065 | 907 | 694 | 517 | | 759 | 3,5 |
| Total Customers | 1,065 | 1,064 | 1,079 | 1,089 | 1,096 | 1,100 | 5,4 |
| Total Usage Above WQM | | 1,108 | 2,108 | 5,973 | | 2,231 | 16,4 |
| Total Usage within WQM Limits | 16,908 | 14,121 | 14,868 | 15,192 | | 14,432 | 73,3 |
| Total Usage | 16,908 | 15,229 | 16,976 | 21,165 | 19,783 | 16,663 | 89,8 |
| Outside Village - Multi | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Tota |
| of Customers using More than WQ Multiplier | | 1 | 5 | 5 | 4 | 3 | |
| of Customers using Equal/Less than Multiplier | 16 | 15 | - 11 | 11 | 12 | 13 | |
| Total Customers | 16 | 16 | 16 | 16 | 16 | 16 | |
| Total Usage Above WQM | | 5 | 77 | 247 | | 122 | 1 |
| Fotal Usage within WQM Limits | 5,317 | 4,532 | 4,600 | 4,505 | 4,249 | 4,315 | 22,2 |
| Total Usage | 5,317 | 4,537 | 4,677 | 4,752 | 4,666 | 4,437 | 23,0 |
| Outside Village - Retail | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Tot |
| of Customers using More than WQ Multiplier | | 1 | 1 | 4 | 4 | 3 | |
| of Customers using Equal/Less than Multiplier | 6 | 4 | 5 | 2 | 2 | 3 | |
| Total Customers | 6 | 5 | 6 | 6 | 6 | 6 | |
| Total Usage Above WQM | | 1 | 2 | 12 | | 16 | |
| Fotal Usage within WQM Limits | 326 | 285 | 88 | 82 | | 83 | - (|
| Total Usage | 326 | 286 | 90 | 94 | 103 | 99 | |
| Outside Village - Other | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Tot |
| | | | | | | | |
| | | 2 | 4 | 8 | 10 | 5 | |
| of Customers using Equal/Less than Multiplier | 12 | 8 | 9 | 5 | 3 | 7 | |
| of Customers using Equal/Less than Multiplier | 12 | | | | 3 | | |
| Ø of Customers using Equal/Less than Multiplier Fotal Customers Fotal Usage Above WQM | 12 | 8 10 2,208 | 9 13 1,578 | 13 1,326 | 3 13 899 | 7 12 59 | |
| # of Customers using More than WQ Multiplier of Customers using Equal/Less than Multiplier Total Customers | | 8 10 | 9 | 13 | 3 | 7 | |

Customer Over

| Knottingham | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Total |
|---|------------|------------|------------|------------|------------|------------|--------------|
| # of Customers using More than WQ Multiplier | | 16 | 62 | 113 | 88 | 69 | 34 |
| # of Customers using Equal/Less than Multiplier | 237 | 221 | 176 | 126 | 153 | 172 | 84 |
| Total Customers | 237 | 237 | 238 | 239 | 241 | 241 | 1,19 |
| Total Usage Above WQM | | 35 | 368 | 1,606 | 649 | 326 | 2,9 |
| Total Usage within WQM Limits | 4,560 | 3,659 | 3,870 | 3,989 | 3,865 | 3,939 | 19,3 |
| Total Usage | 4,560 | 3,694 | 4,238 | 5,595 | 4,514 | 4,265 | 22,3 |
| Westmont | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Tota |
| # of Customers using More than WQ Multiplier | | 20 | 32 | 47 | 47 | 18 | 10 |
| of Customers using Equal/Less than Multiplier | 62 | 42 | 30 | 16 | 16 | 46 | 1: |
| Total Customers | 62 | 62 | 62 | 63 | 63 | 64 | 3 |
| Total Usage Above WQM | | 53 | 205 | 702 | 723 | 244 | 1,9 |
| Total Usage within WQM Limits | 917 | 876 | 865 | 890 | 863 | 758 | 4,2 |
| | 917 | 929 | 1,070 | 1,592 | 1,586 | 1.002 | 6.1 |

| | 15.08 12.0624643 | | | | ner Over | | | | | | | | ner Over | | |
|---|------------------|-------------------------|----------------------------|------------------|------------------|------------------|-----------------------|---|------------|------------|----------------|----------------|----------------|------------|-----|
| | | 82.76% | 85.55% | 87.70% | 78.13% | 64.23% | 79.20% | | | 75.00% | 90.69% | 87.28% | 78.27% | 62.19% | 75 |
| Winter Quarter Multiplier | 100% | | | | ption Over | | | | | | | | otion Over | | |
| | | 23.37% | 49.42% | 51.56% | 40.32% | 24.56% | 41.80% | | | 21.19% | 58.40% | 47.36% | 36.58% | 22.05% | 4 |
| Inside Village - Single Family | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Total | Outside Village - Single | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Anr |
| of Customers using More than WQ Multiplier | | 4,020 | 10,663 | 11,096 | 9,943 | 8,105 | 43,827 | # of Customers using More than WQ Multiplier | | 175 | 1,024 | 993 | 908 | 723 | |
| of Customers using Equal/Less than Multiplier | 12,247 | 831 | 1,803 | 1,527 | 2,795 | 4,668 | 11,624 | # of Customers using Equal/Less than Multiplier | 1,104 | 59 | 101 | 143 | 249 | 441 | |
| tal Customers | 12,247 | 4,851 | 12,466 | 12,623 | 12,738 | 12,773 | 55,451 | Total Customers | 1,104 | 234 | 1,125 | 1,136 | 1,157 | 1,164 | |
| tal Usage Above WON | | 15.851 | 145,518 | 139,800 | 80,819 | 35.896 | 417.884 | Total Usage Above WOM | | 744 | 16.671 | 12.255 | 7,343 | 3,165 | |
| al Usage within WOM Limit | 147,729 | 57,193 | | 143,051 | 139,844 | 135,928 | 619,284 | Total Usage within WOM Limits | 13.213 | 2.787 | 12,629 | 12,470 | 12.279 | 11,771 | |
| al Usage | 147,729 | 73,044 | 288,786 | 282,851 | 220,663 | 171,824 | 1,037,168 | Total Usage | 13,213 | 3,531 | 29,300 | 24,725 | 19,622 | 14,936 | _ |
| Inside Village - Multi Family | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Total | Outside Village - Multi | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Anr |
| | | | | | | | | | | 0 | | | | | |
| of Customers using More than WQ Multiplier of Customers using Equal/Less than Multiplier | 570 | 225 40 | | 527 60 | 490 102 | 418 166 | 2,157 451 | # of Customers using More than WQ Multiplier # of Customers using Equal/Less than Multiplier | 16 | 0 | 16 0 | 13 | 13 | 12 | |
| tal Customers | 570 | 265 | | 587 | 592 | 584 | 2,608 | Total Customers | 16 | 0 | 16 | 16 | 16 | 16 | _ |
| | | | | | | | | | | | | | | | |
| stal Usage Above WQN | | 3,772 | | 26,201 | 18,995 | 11,563 | 110,845 | Total Usage Above WQM | | 0 | 5,674 | 818 | 1,333 | 894 | |
| al Usage within WQM Limit | 45,346 | 12,948 | 44,849 | 44,817 | 44,432 | 44,156 | 191,202 | Total Usage within WQM Limits | 3,758 | 0 | 3,758 9,432 | 3,563 4.381 | 3,506 4.839 | 3,573 | _ |
| al Usage | 45,346 | 16,720 | 95,163 | 71,018 | 63,427 | 55,719 | 302,047 | Total Usage | 3,758 | 0 | 9,432 | 4,381 | 4,839 | 4,467 | |
| Inside Village - Retail | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Total | Outside Village - Retail | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Anr |
| f Customers using More than WQ Multiplier | | 198 | 320 | 329 | 282 | 263 | 1,392 | # of Customers using More than WQ Multiplier | | 3 | 4 | 5 | 4 | 3 | |
| of Customers using Equal/Less than Multiplier | 372 | 66 | 70 | 61 | 112 | 133 | 442 | # of Customers using Equal/Less than Multiplier | 6 | 1 | 2 | 1 | 2 | 3 | |
| tal Customers | 372 | 264 | 390 | 390 | 394 | 396 | 1,834 | Total Customers | 6 | 4 | 6 | 6 | 6 | 6 | |
| al Usage Above WON | | 7,327 | 23.075 | 41.312 | 29,419 | 13.951 | 115,084 | Total Usage Above WOM | | 12 | 58 | 44 | 32 | 13 | |
| tal Usage within WQM Limits | 30,398 | 20,407 | 29,334 | 29,783 | 28,596 | 27,871 | 135,991 | Total Usage within WOM Limits | 75 | 39 | 75 | 71 | 69 | 67 | |
| al Usage | 30,398 | 27,734 | 52,409 | 71,095 | 58,015 | 41,822 | 251,075 | Total Usage | 75 | 51 | 133 | 115 | 101 | 80 | _ |
| Inside Village - Industrial | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Total | Outside Village - Other | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Anı |
| f Customers using More than WQ Multiplier | | 16 | 71 | 66 | 60 | 55 | 268 | # of Customers using More than WQ Multiplier | | 5 | 8 | 11 | 8 | 7 | |
| f Customers using Found/Less than Multiplier | 75 | 4 | 71 | 15 | 18 | 24 | 68 | # of Customers using Equal/Less than Multiplier | 12 | 1 | 5 | 11 | 5 | , | |
| al Customers | 75 | 20 | 78 | 81 | 78 | 79 | 336 | Total Customers | 12 | 6 | 13 | 13 | 13 | 12 | _ |
| al Usage Above WON | | 1.036 | 7.816 | 4.056 | 3,670 | 2.016 | 18,594 | Total Usage Above WOM | | 154 | 1.660 | 2.149 | 898 | 463 | |
| | 7,607 | 1,036 | | 6,598 | 6,699 | 6,314 | 28,880 | Total Usage within WOM Limits | 883 | 558 | 681 | 2,149 | 898 802 | 619 | |
| al Usana mishin WOM Limit | | 2,775 | 15,346 | 10,654 | 10,369 | 8,330 | 47,474 | Total Usage | 883 | 712 | 2,341 | 3,014 | 1,700 | 1.082 | _ |
| | 7 607 | | | 10,004 | 10,505 | 4,550 | 41,414 | Total Cange | 003 | /12 | 2,041 | 5,014 | 1,700 | 1,002 | |
| | 7,607 | 2,775 | | | | | | | | | | | | | |
| | | | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Total | | | | | | | | |
| Inside Village - Other f Customers using More than WQ Multiplier | Bi-Month I | Bi-Month 2 | 328 | 314 | 307 | 284 | 1,417 | | | | | | | | |
| Inside Village - Other f Customers using More than WQ Multiplier f Customers using Equal/Less than Multiplier | Bi-Month 1 | Bi-Month 2 184 26 | 328 43 | 314 66 | 307 75 | 284 90 | 1,417 300 | | | | | | | | |
| tal Usage within WQM Limits tal Usage Inside Village - Other of Customers using More than WQ Multiplier of Customers using Equal/Less than Multiplier tal Customers | Bi-Month I | Bi-Month 2 184 26 | 328 43 | 314 | 307 | 284 | 1,417 | | | | | | | | |
| Inside Village - Other f Customers using More than WQ Multiplier of Customers using Equal/Less than Multiplier tal Customers | Bi-Month 1 | Bi-Month 2 184 26 | 328 43 | 314 66 | 307 75 | 284 90 | 1,417 300 | | | | | | | | |
| Inside Village - Other of Customers using More than WQ Multiplier of Customers using Equal/Less than Multiplier | Bi-Month 1 | 184 26 210 | 328 43 371 21,761 | 314 66 380 | 307 75 382 | 284 90 374 | 1,417 300 1,717 | | | | | | | | |

| Knottingham | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Total |
|---|------------|------------|------------|------------|------------|------------|--------------|
| # of Customers using More than WQ Multiplier | | 0 | 239 | 200 | 185 | 140 | 764 |
| # of Customers using Equal/Less than Multiplier | 241 | 0 | 2 | 44 | 60 | 108 | 214 |
| Total Customers | 241 | 0 | 241 | 244 | 245 | 248 | 978 |
| Total Usage Above WQM | | 0 | 5,028 | 2,367 | 1,228 | 590 | 9,213 |
| Total Usage within WQM Limits | 3,315 | 0 | 3,259 | 3,199 | 3,139 | 3,024 | 12,621 |
| Total Usage | 3,315 | 0 | 8,287 | 5,566 | 4,367 | 3,614 | 21,834 |
| Westmont | Bi-Month 1 | Bi-Month 2 | Bi-Month 3 | Bi-Month 4 | Bi-Month 5 | Bi-Month 6 | Annual Total |
| # of Customers using More than WQ Multiplier | | 52 | 46 | 67 | 56 | 49 | 270 |
| # of Customers using Equal/Less than Multiplier | 65 | 12 | 20 | 2 | 14 | 22 | 76 |
| Total Customers | 65 | 64 | 66 | 69 | 70 | 71 | 340 |
| Total Usage Above WQM | | 273 | 177 | 1,306 | 712 | 250 | 2,718 |
| Total Usage within WQM Limits | 794 | 780 | 761 | 785 | 774 | 731 | 3,831 |
| Total Usage | 794 | 1,053 | 938 | 2,091 | 1,486 | 981 | 6,549 |

Total Inside Village Consumption

Village of Downers Grove Water Rate Study

| Inside Village | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------|---------------------|----------------|----------------|----------------|----------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | Meter Size | AWWA Equivalents | 2005 Actual | 2006 Actual | 2007 Actual | 2008 Actual | 2009 Actual | 2010 Projected | 2011 Projected | 2012 Projected | 2013 Projected | 2014 Projected | 2015 Projected | 2016 Projected | 2017 Projected | 2018 Projected | 2019 Projected | 2020 Projected |
| Single Family Residential | 5/8 1 | 1.00 1.50 | | | | 11,788 543 | 12,331 639 |
| | 1 1/2 2 | 5.00 8.00 | | | | 48 4 | 55 5 |
| | 3 | 15.00 | | | - | 1 12,384 | 13,031 | 13,031 | 13,031 | 13,031 | 13,031 | 13,031 | 13,031 | 13,031 | 13,031 | 13,031 | 13,031 | 13,031 |
| Total EDU's | | | | | | 12,890 | 13,620 | 13,620 | 13,620 | 13,620 | 13,620 | 13,620 | 13,620 | 13,620 | 13,620 | 13,620 | 13,620 | 13,620 |
| Multi Family | 5/8 | 1.00 | | | | 179 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 | 190 |
| | 1 1 1/2 | 1.50 5.00 | | | | 77 149 | 79 149 |
| | 2 3 | 8.00 15.00 | | | | 126 37 | 133 37 |
| | 4 | 25.00 50.00 | | | | 14 4 | 20 4 |
| Total EDU's | | | | | _ | 586 3,153 | 612 3,373 |
| Retail | | | | | | | | | | | | | | | | | | |
| | 5/8 | 1.00 1.50 | | | | 201 49 | 215 53 |
| | 1 1/2 2 | 5.00 8.00 | | | | 62 41 | 69 48 |
| | 3 | 15.00 25.00 | | | | 29 20 | 30 22 |
| | 6 | 50.00 | | | - | 2 404 | 2 439 | 2 439 | 2 439 | 2 439 | 439 | 2 439 | 2 439 | 2 439 | 2 439 | 2 439 | 2 439 | 439 |
| Total EDU's | | | | | | 1,948 | 2,124 | 2,124 | 2,124 | 2,124 | 2,124 | 2,124 | 2,124 | 2,124 | 2,124 | 2,124 | 2,124 | 2,124 |
| Industrial | 5/8 | 1.00 | | | | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| | 1 1 1/2 | 1.50 5.00 | | | | 14 22 | 14 26 |
| | 2 3 | 8.00 15.00 | | | | 21 10 | 23 10 |
| Total EDU's | - | 13.00 | | | _ | 80 462 | 86 498 |
| Other | | | | | | | | | | | | | | | | | | |
| oute | 5/8 | 1.00 1.50 | | | | 91 53 | 102 55 |
| | 1 1/2 | 5.00 8.00 | | | | 94 80 | 96 85 |
| | 3 4 | 15.00 25.00 | | | | 34 34 | 34 34 | 34 34 | 34 34 | 34 34 | 34 34 | 34 34 | 34 34 | 34 34 | 34 34 | 34 34 | 34 34 | 34 34 |
| | 6 10 | 50.00 120.00 | | | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Total EDU's | 10 | 120.00 | | | - | 393 3,061 | 413 3,125 |
| Inside City Consumption | | | | | | 3,001 | 3,123 | 3,123 | 2,122 | 0,120 | 3,123 | 3,123 | 3,123 | 3,123 | 3,123 | 3,123 | 3,123 | 3,123 |
| Residential | | | | | | | | | | | | | | | | | | |
| 0 - 1 CCFs 1 - 2 CCFs | | | | | | | 626 1,520 | 620 1,505 | 614 1,490 | 607 1,475 | 601 1.460 | 595 1,446 | 589 1,431 | 583 1,417 | 578 1,403 | 572 1.389 | 566 1,375 | 560 1,361 |
| Over 2 CCFs Total Consumption | | | | | | _ | 1,173,267 1,175,413 | 1,161,534 1,163,659 | 1,149,919 1,152,022 | 1,138,420 1,140,502 | 1,127,036 1,129,097 | 1,115,765 1,117,806 | 1,104,608 1,106,628 | 1,093,562 1,095,562 | 1,082,626 1,084,606 | 1,071,800 1,073,760 | 1,061,082 1,063,022 | 1,050,471 1,052,392 |
| Non-Residential | | | | | | | 1,175,115 | 1,100,000 | 1,102,022 | 1,110,202 | 1,127,077 | 1,117,000 | 1,100,020 | 1,075,502 | 1,001,000 | 1,073,700 | 1,005,022 | 1,002,002 |
| 0 - 1 CCFs 1 - 2 CCFs | | | | | | | 256 422 | 253 418 | 251 414 | 248 409 | 246 405 | 243 401 | 241 397 | 239 393 | 236 389 | 234 386 | 232 382 | 229 378 |
| Over 2 CCFs Total Consumption | | | | | | | 1,005,810 1,006,488 | 995,752 996,423 | 985,794 986,459 | 975,936 976,594 | 966,177 966,828 | 956,515 957,160 | 946,950 947,588 | 937,481 938,113 | 928,106 928,731 | 918,825 919,444 | 909,637 910,250 | 900,540 901,147 |
| Commercial Total Consumption | | | | | | | 953,073 | 943,542 | 934,107 | 924,766 | 915,518 | 906,363 | 897,299 | 888,326 | 879,443 | 870,649 | 861,942 | 853,323 |
| - | | | | | | | 53,415 | 52,881 | 52,352 | 51,829 | 51,310 | 50,797 | 50,289 | 49,786 | 49,288 | 48,796 | 48,308 | 833,323 47,824 |
| Industrial Total Consumption | | | | | | | 33,413 | 32,001 | 32,332 | 31,029 | 51,510 | 30,797 | 30,209 | 47,700 | 47,208 | 40,790 | 40,508 | 47,024 |

2,181,901 2,160,082

2,138,481

2,117,096

2,095,925

2,074,966

2,054,216

2,013,338

1,993,204

2,033,674

1,973,272

1,953,539

SCHEDULE 13C - CUSTOMER AND CONSUMPTION PROJECTIONS

Village of Downers Grove

| Outside Village | | | | | | | | | Water Rate Study | ove | | | | | | | | |
|--|-------------------|--------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Ü | Meter Size | | | | | FY 08 | FY 09 Actual | FY 10 | FY 11 | FY 12 | FY 13 | FY 14 | FY 15 | FY 16 | FY 17 | FY 18 | FY 19 | FY 20 |
| Single Family Customers | Meter Size 5/8 | 1.00 | | | - | Actual 1,036 | 1,089 | Projected 1,089 |
| | 1 1 1/2 | 1.50 5.00 | | | | 84 6 | 98 7 |
| Total EDU's | | | | | - | 1,126 1,192 | 1,194 1,271 |
| | | | | | | 1,192 | 1,2/1 | 1,2/1 | 1,2/1 | 1,2/1 | 1,2/1 | 1,2/1 | 1,2/1 | 1,2/1 | 1,2/1 | 1,2/1 | 1,2/1 | 1,2/1 |
| Multi Family Customers | 5/8 | 1.00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 1 1 1/2 | 1.50 5.00 | | | | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 2 | 1 | 1 2 | 1 2 | 1 2 | 1 2 |
| | 2 | 8.00 | | | _ | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Total EDU's | | | | | | 16 109 |
| Retail Customers | | | | | | | | | | | | | | | | | | |
| Retail Customers | 5/8 | 1.00 | | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 1 1 1/2 | 1.50 5.00 | | | | 0 1 | 0 1 | 0 | 0 | 0 1 | 0 1 | 0 1 | 0 | 0 1 | 0 | 0 1 | 0 1 | 0 1 |
| Tatal EDUI- | | | | | - | 6 10 | 6 | 6 10 | 6 10 |
| Total EDU's | | | | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Other | 5/8 | 1.00 | | | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 1 1 1/2 | 1.50 5.00 | | | | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 1 |
| | 2 | 8.00 | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 4 | 25.00 | | | - | 2 13 | 2 14 |
| Total EDU's | | | | | | 80 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| Outside City Consumption | | | | | | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | | | | | | |
| 0 - 1 CCFs | | | | | | | 73 | 72 | 72 | 71 | 70 | 69 | 69 | 68 | 67 | 67 | 66 | 65 |
| 1 - 2 CCFs Over 2 CCFs | | | | | | | 198 97,317 | 196 96,344 | 194 95,380 | 192 94,427 | 190 93,482 | 188 92,547 | 186 91,622 | 185 90,706 | 183 89,799 | 181 88,901 | 179 88,012 | 177 87,132 |
| Total Consumption | | | | | | | 97,588 | 96,612 | 95,646 | 94,690 | 93,743 | 92,805 | 91,877 | 90,958 | 90,049 | 89,148 | 88,257 | 87,374 |
| Non-Residential | | | | | | | | | | | | _ | _ | | | | | |
| 0 - 1 CCFs 1 - 2 CCFs | | | | | | | 4 12 | 4 12 | 4 12 | 4 12 | 4 12 | 4 11 |
| Over 2 CCFs Total Consumption | | | | | | _ | 32,857 32,873 | 32,528 32,544 | 32,203 32,219 | 31,881 31,897 | 31,562 31,578 | 31,247 31,262 | 30,934 30,949 | 30,625 30,640 | 30,319 30,333 | 30,015 30,030 | 29,715 29,730 | 29,418 29,432 |
| - | | | | | | | 32,073 | 32,311 | 32,217 | 31,077 | 31,370 | 31,202 | 30,717 | 30,010 | 30,333 | 30,030 | 27,730 | 27,122 |
| Knottingham | | | | | | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| Single Family Customers | Meter Size 5/8 | | | | = | Actual 236 | Actual 244 | Projected 244 | Projected 244 |
| | 1 | | | | _ | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | | | | | | 241 | 249 | 249 | 249 | 249 | 249 | 249 | 249 | 249 | 249 | 249 | 249 | 249 |
| Total Consumption | | | | | | | 22,553 | 22,327 | 22,104 | 21,883 | 21,664 | 21,448 | 21,233 | 21,021 | 20,811 | 20,603 | 20,397 | 20,193 |
| Westmont | | | | | | 2008 | 2000 | 2010 | **** | **** | 2012 | 2011 | 2045 | **** | *** | **** | 2019 | 2020 |
| Single Family Customers | Meter Size | | | | _ | Actual | 2009 Actual | Projected | 2011 Projected | 2012 Projected | 2013 Projected | 2014 Projected | 2015 Projected | 2016 Projected | 2017 Projected | 2018 Projected | Projected | Projected |
| | 5/8 1 | | | | | 49 15 | 54 18 |
| | | | | | - | 64 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 |
| 0 - 1 CCFs | | | | | | | 405 | 401 | 397 | 393 | 389 | 385 | 381 | 377 | 374 | 370 | 366 | 363 |
| 2 - 13 CCFs Over 13 CCFs | | | | | | | 3,960 2,978 | 3,920 2,948 | 3,881 2,919 | 3,842 2.890 | 3,804 2.861 | 3,766 2,832 | 3,728 2.804 | 3,691 2,776 | 3,654 2,748 | 3,618 2,720 | 3,581 2.693 | 3,546 2,666 |
| 014 15 0015 | | | | | | _ | 7,343 | 7,270 | 7,197 | 7,125 | 7,054 | 6,983 | 6,913 | 6,844 | 6,776 | 6,708 | 6,641 | 6,574 |
| Total Outside Village | | | | | | | 160,357 | 158,753 | 157,166 | 155,594 | 154,038 | 152,498 | 150,973 | 149,463 | 147,969 | 146,489 | 145,024 | 143,574 |
| Total System Consumption (CCF) | | | 2,746,026 | 2,568,263 | 2,645,973 | 2,533,934 | 2,342,258 | 2,318,835 | 2,295,647 | 2,272,691 | 2,249,964 | 2,227,464 | 2,205,189 | 2,183,138 | 2,161,306 | 2,139,693 | 2,118,296 | 2,097,113 |
| Total System Consumption (cubic Fo | | | 274,602,600 | 256,826,300 | 264,597,300 | 253,393,400 | 234,225,800 | 231,883,542 | 229,564,707 | 227,269,060 | 224,996,369 | 222,746,405 | 220,518,941 | 218,313,752 | 216,130,614 | 213,969,308 | 211,829,615 | 209,711,319 |
| Totally System Consumption (MCF) Total System Consumption (gallons) | | | 274,603 2,054,027,448 | 256,826 1,921,060,724 | 264,597 1,979,187,804 | 253,393 1,895,382,632 | 234,226 1,752,008,984 | 231,884 1,734,488,894 | 229,565 1,717,144,005 | 227,269 1,699,972,565 | 224,996 1,682,972,840 | 222,746 1,666,143,111 | 220,519 1,649,481,680 | 218,314 1,632,986,863 | 216,131 1,616,656,995 | 213,969 1,600,490,425 | 211,830 1,584,485,520 | 209,711 1,568,640,665 |
| , consumption (ganons) | | | 2054.027448 | 1921.060724 | 1979.187804 | 1895.382632 | 1752.008984 | 1734.488894 | -,,,,,,,,,, | -,,-,- | .,,,,,,,,,,, | -,,- 10,111 | -,, 101,000 | -,=,/00,003 | -,,550,555 | -,, //0, 12/ | ,, .00,020 | -,,-10,000 |
| | | | 5.63 | 5.26 | 5.42 | 5.19 | 4.80 | 4.75 | 5.261 | | | | | | | | | |
| | | | 6.59 | 6.59 | 6.59 | 6.59 | 6.59 | 6.59 | | | | | | | | | | |

0.728490608 0.721205702

0.854070794 0.79878283 0.822952245 0.788105802

SCHEDULE 14A - FY 08 RATE RECONCILIATION

 Actual Revenues Collected
 2008

 \$ 6,900,114
 \$

| | _ | 2008 A | Actuals |
|----------------------------------|--------------|--------|-------------|
| Consumption Information *in CCFs | · | Bills | Consumption |
| Inside Village | | 83,082 | 2,223,335 |
| Outside Village | | 6,966 | 148,094 |
| Westmont | | | 7,096 |
| | 0 - 1 CCFs | | 6% |
| | 2 - 13 CCFs | | 54% |
| | Over 13 CCFs | | 41% |
| Knottingham | | | 26,866 |

Current Rate Structure

| Inside Village | | | | | | | Outside Village | | | | | | |
|---|--------|----|-------------------|----|-------------------|-------|---|-------|----|-----------------|--------|------|-------|
| Minimum Charge | | | 2008 | | 2008 | | outside / mage | | | 2008 | 200 | 3 | |
| Cost Allocated = # of Customers Billed Minimum | | \$ | 435,829 83,082 | | 451,966 83,082 | | Cost Allocated = # of Customers Billed Minimum | | \$ | 46,160 6,966 | | 533 | |
| Minimum Charge | 2.00 | \$ | 5.25 | | 5.44 | -3.6% | Minimum Charge | 2.00 | \$ | | | 5.68 | -0.8% |
| | | | FY 10 | | FY 10 | | | | | FY 10 | FY 1 | | |
| Consumption = | | | 2,223,335 | | 2,223,335 | | Consumption = | | | 148,094 | 148 | ,094 | |
| Cost Allocated = | 90.83% | \$ | 6,267,374 | | | | Cost Allocated = | 7.78% | \$ | | \$ 494 | | |
| Unit Rate (per CCF) | 1.00 | \$ | 2.62 | \$ | 2.72 | -3.6% | Unit Rate (per CCF) | 1.00 | \$ | 3.31 | \$ | 3.34 | -0.8% |
| Westmont Customers | 0.27% | | | | | | Knottingham | 1.12% | , | | | | |
| westmont Customers | 0.2770 | | 2009 | | 2009 | | Knottingnam | 1.12/ | 0 | | | | |
| Level 1: 0 - 1 CCF | | _ | 2009 | | 2009 | | | | | | | | |
| Consumption = | | | 391 | | 391 | | Consumption = | | | 26,866 | 26 | ,866 | |
| Cost Allocated = | | \$ | 1,551 | | 1,566 | | Cost Allocated = | | S | | | 374 | |
| Unit Rate (per CCF) | 1.00 | \$ | 3.96 | | 4.00 | | Unit Rate (per CCF) | | \$ | , | | 2.88 | -0.1% |
| Level 2: 2 - 13 CCFs | | | | | | | | | | | | | |
| Consumption = | | | 3,827 | | 3,827 | | | | | | | | |
| Cost Allocated = | | \$ | 8,528 | \$ | 8,610 | | | | | | | | |
| Unit Rate (per CCF) | 0.56 | \$ | 2.23 | \$ | 2.25 | -1.0% | | | | | | | |
| Level 3: Over 13 CCFs | | | | | | | | | | | | | |
| Consumption = | | | 2,878 | | 2,878 | | | | | | | | |
| Cost Allocated = | | \$ | 8,551 | \$ | 8,633 | | | | | | | | |
| Unit Rate (per CCF) | 0.75 | \$ | 2.97 | \$ | 3.00 | -1.0% | | | | | | | |
| Collected Revenue - Inside Village | | \$ | 6,267,374 | \$ | 6,499,437 | | | | | | | | |
| Collected Revenue - Outside Village | | \$ | 536,829 | | 541,167 | | | | | | | | |
| Collected Revenue - Knottingham | | \$ | 18,630 | | 18,809 | | | | | | | | |
| Collected Revenue - Westmont | | \$ | 77,281 | | 77,374 | | | | | | | | |
| Total Collected Revenue | | \$ | 6,900,114 | | | | | | | | | | |
| Town Concessed Ite rende | | Φ | 6 900 114 | Ψ. | -3 32% | | | | | | | | |

SCHEDULE 14B - FY 09 RATE RECONCILIATION

 Actual Revenues Collected
 2009

 \$ 7,164,670

| | | | 2009 |
|----------------------------------|--------------|-----------|-------------|
| Consumption Information *in CCFs | | | Consumption |
| Inside Village | | Jan - Apr | 415,884 |
| | | May - Dec | 1,770,927 |
| Outside Village | | Jan - Apr | 20,807 |
| | | May - Dec | 110,117 |
| Westmont | 0 - 1 CCFs | | 405 |
| | 2 - 13 CCFs | | 3,960 |
| | Over 13 CCFs | | 2,978 |
| Knottingham | | | 22,553 |

Current Rate Structure

| Inside Village | 92.46% | | | | | | Outside Village | 6.40% | | | | |
|---|--------|----------------------|---|----------------|---|-------|--|-------|----------|----------------------------|--------------------------------|-------|
| Minimum Charge | | _ | 2009 | | 2009 | | 9 | | _ | 2009 | 2009 | |
| Consumption = Cost Allocated = Unit Rate (per CCF) | 0.9 | \$ \$ | 415,884 1,202,161 2.89 | | 415,884 1,193,587 2.87 | 0.7% | Consumption = Cost Allocated = Unit Rate (per CCF) | 0.9 | \$ | 20,807 69,379 3.33 | \$ 20,807 69,495 3.34 | -0.2% |
| Consumption = Cost Allocated = Unit Rate (per CCF) | 1.0 | \$ \$ | 1,770,927 5,422,292 3.06 | | 1,770,927 5,383,618 3.04 | 0.7% | Consumption = Cost Allocated = Unit Rate (per CCF) | 1.0 | \$ \$ | 110,117 389,160 3.53 | 110,117 389,814 3.54 | -0.2% |
| Westmont Customers | 0.26% | | | | | | Knottingham | 0.88% | | | | |
| I 11 0 1 CCD | | | 2009 | | 2009 | | | | _ | 2009 | 2009 | |
| Level 1: 0 - 1 CCF Consumption = Cost Allocated = Unit Rate (per CCF) | 1.00 | \$ \$ | 405 1,550 3.83 | | 405 1,620 4.00 | -4.3% | Consumption = Cost Allocated = Unit Rate (per CCF) | | \$ | 22,553 63,049 2.80 | \$ 22,553 64,953 2.88 | -2.9% |
| Level 2: 2 - 13 CCFs Consumption = Cost Allocated = | | \$ | 3,960 8,527 | \$ | 3,960 8,910 | | | | | | | |
| Unit Rate (per CCF) | 0.56 | \$ | 2.15 | | 2.25 | -4.3% | | | | | | |
| Level 3: Over 13 CCFs Consumption = Cost Allocated = Unit Rate (per CCF) | 0.75 | \$ \$ | 2,978 8,550 2.87 | | 2,978 8,934 3.00 | -4.3% | | | | | | |
| , | | | | | | | | | | | | |
| Collected Revenue - Inside Village Collected Revenue - Outside Village Collected Revenue - Westmont Collected Revenue - Knottingham Total Collected Revenue | | \$ \$ \$ \$ | 6,624,454 458,539 18,628 63,049 7,164,670 | \$ \$ \$ | 6,577,205 459,310 19,464 64,953 7,120,931 | | | | | | | |

SCHEDULE 14C - FY 10 RATE RECONCILIATION

Council Adopted Projected Revenues 2010 \$ 7,955,137

2010 (no growth from FY 09)

| Consumption Information *in CCFs | | | Consumption |
|----------------------------------|--------------|------------|-------------|
| Inside Village | | Jan - June | 920,650 |
| _ | | July - Dec | 1,266,161 |
| Outside Village | | Jan - June | 58,056 |
| | | July - Dec | 72,868 |
| Westmont | 0 - 1 CCFs | • | 401 |
| | 2 - 13 CCFs | | 3,920 |
| | Over 13 CCFs | | 2,948 |
| Knottingham | | | 22,553 |

Current Rate Structure

| Inside Village | 92.43% | | | | | | Outside Village | 6.45% | | | | |
|-------------------------------------|--------|----|----------------|-------|-----------|------|---------------------|--------|----|------------------|------------|------|
| Minimum Charge | 92.43% | 20 | 010 (no growt | h fro | om FY 09) | | Outside village | 0.43% | 20 | 10 (no growth fr | om FY 09) | |
| | | | ore (see Brown | | | | | | | (8 | | - |
| Consumption = | | | 920,650 | | 920,650 | | Consumption = | | | 58,056 | 58,056 | |
| Cost Allocated = | | \$ | 2,944,254 | | | | Cost Allocated = | | \$ | 216,954 \$ | 205,518 | |
| Unit Rate (per CCF) | 0.9 | \$ | 3.20 | \$ | 3.04 | 5.2% | Unit Rate (per CCF) | 0.9 | \$ | 3.74 \$ | 3.54 | 5.6% |
| Consumption = | | | 1,266,161 | | 1,266,161 | | Consumption = | | | 72,868 | 72,868 | |
| Cost Allocated = | | \$ | 4,408,838 | \$ | | | Cost Allocated = | | \$ | 296,152 \$ | 280,542 | |
| Unit Rate (per CCF) | 1.0 | \$ | 3.48 | \$ | 3.31 | 5.2% | Unit Rate (per CCF) | 1.0 | \$ | 4.06 \$ | 3.85 | 5.6% |
| Westmont Customers | 0.26% | | | | | | Knottingham | 0.86% | | | | |
| Westmont Customers | 0.2070 | 20 | 010 (no growt | h fro | m FV ()9) | | Knottingnam | 0.8070 | 20 | 10 (no growth fr | om FV 09) | |
| Level 1: 0 - 1 CCF | | | oro (no growt | 11(| ,,,,, | | | | | io (no giowai ii | JIII I U/) | • |
| Consumption = | | | 401 | | 401 | | Consumption = | | | 22,553 | 22,553 | |
| Cost Allocated = | | \$ | 1,708 | \$ | 1,604 | | Cost Allocated = | | \$ | 68,414 \$ | 64,953 | |
| Unit Rate (per CCF) | 1.00 | \$ | 4.26 | | 4.00 | 6.5% | Unit Rate (per CCF) | | \$ | 3.03 \$ | 2.88 | 5.3% |
| Level 2: 2 - 13 CCFs | | | | | | | | | | | | |
| Consumption = | | | 3,920 | | 3,920 | | | | | | | |
| Cost Allocated = | | \$ | 9,395 | | 8,821 | | | | | | | |
| Unit Rate (per CCF) | 0.56 | \$ | 2.40 | \$ | 2.25 | 6.5% | | | | | | |
| Level 3: Over 13 CCFs | | | | | | | | | | | | |
| Consumption = | | | 2,948 | | 2,948 | | | | | | | |
| Cost Allocated = | | \$ | 9,421 | | 8,845 | | | | | | | |
| Unit Rate (per CCF) | 0.75 | \$ | 3.20 | \$ | 3.00 | 6.5% | | | | | | |
| Collected Revenue - Inside Village | | \$ | 7,353,092 | \$ | 6,989,769 | | | | | | | |
| Collected Revenue - Outside Village | | \$ | 513,106 | | 486,060 | | | | | | | |
| Collected Revenue - Westmont | | \$ | 20,524 | | 19,269 | | | | | | | |
| Collected Revenue - Knottingham | | \$ | 68,414 | | 64,953 | | | | | | | |
| Total Collected Revenue | | \$ | 7,955,137 | \$ | 7,560,051 | | | | | | | |
| | | \$ | 7,955,137 | | 5.23% | | | | | | | |

SCHEDULE 14D - FY 11 RATE ANALYSIS

| Downers Grove Revenue Requirements | \$ | 2011 9,129,101 | |
|---|----------|----------------------------|-------------|
| Rev. Req Fixed Portion Rev. Req Variable Portion | \$ \$ | 1,258,671 7,870,429 | |
| Consumption Information *in CCFs | 2(| 011 (no growth from FY 09) | Total EDU's |
| Inside Village (including min. 2 CCFs) | | 2,139,346 | 22,738 |
| Residential (No Min. Usage) | | 1,152,022 | |
| Non-Residential (No Min. Usage) | | 986,459 | |
| Commercial | | 953,073 | |
| Industrial | | 53,415 | |
| Outside Village (including min. 2 CCFs) | | 127,940 | 1,471 |
| Residential (No Min. Usage) | | 95,646 | |
| Non-Residential (No Min. Usage) | | 32,219 | |

| Water Conservation | |
|--------------------------------------|------|
| | |
| | |
| Alternative C | |
| Residential Consumption Conservation | |
| Level 2 Reduction Level | 4.0% |
| Level 3 Reduction Level | 7.0% |
| Alternative D | |
| Residential Consumption Conservation | |
| Level 2 Reduction Level | 4.0% |
| Level 3 Reduction Level | 7.0% |
| Commercial Consumption Conservation | |
| Level 2 Reduction Level | 4.0% |
| Level 3 Reduction Level | 7.0% |
| Industrial Consumption Conservation | |
| Level 2 Reduction Level | 4.0% |
| Level 3 Reduction Level | 7.0% |

Alternative A - Current Rate Structure

| Inside Village | 93.50% | | 2010 | | Outside Village | 6.50% | | 2010 | | |
|-------------------------------------|--------|-----------------|-----------------|-------|---------------------|-------|---------------|---------|-----|-------|
| | | 2011 | Current | | | | 2011 | Current | | |
| Consumption = | | 2,139,346 | 2,139,346 | | Consumption = | | 127,940 | 127. | 940 | |
| Cost Allocated = | | \$ 8,535,709 | 7,081,234 | | Cost Allocated = | | \$ 593,392 | | | |
| Unit Rate (per CCF) | | \$ 3.99 | \$ 3.31 | 20.5% | Unit Rate (per CCF) | | \$ 4.64 | \$ 3 | 85 | 20.5% |
| | | | | | | | | | | |
| Collected Revenue - Inside Village | | \$ 8,535,709 | \$ 7,081,234 | | I. | | | | | |
| Collected Revenue - Outside Village | | \$ 593,392 | \$ 492,570 | | | | | | | |
| Total Collected Revenue | | \$ 9,129,101 | \$ 7,573,804 | | | | | | | |
| | | \$ 9,129,101 | 20.54% | | | | | | | |

Alternative B - Fixed Charge Based on Meter Size with Unit Rate Volume Charge

| Bi-Monthly Fixed Charge | | | | | | |
|-------------------------------------|--------|---------|------------------|---------------------|-------|---------------|
| Total EDU's Cost Allocated = | | | 24,209 58,671 | | | |
| Bi-Monthly Fixed Charge | | \$ | 8.67 | | | |
| Inside Village | 93.50% | | | Outside Village | 6.50% | |
| Variable Charges | - | 2011 | | Variable Charges | | 2011 |
| Consumption = | | 2,1 | 38,481 | Consumption = | | 127,865 |
| Cost Allocated = | | \$ 7,35 | 58,851 | Cost Allocated = | | \$ 511,578 |
| Unit Rate (per CCF) | | \$ | 3.44 | Unit Rate (per CCF) | | \$ 4.00 |
| Collected Revenue - Fixed Charge | | \$ 1,25 | 58,671 | | | |
| Collected Revenue - Inside Village | | \$ 7,35 | 58,851 | | | |
| Collected Revenue - Outside Village | | | 11,578 | | | |
| Total Collected Revenue | | \$ 9,12 | 29,101 | | | |
| | | \$ 9,12 | 29,101 | • | | |

Alternative B Phase-In - Fixed Charge Based on Meter Size with Unit Rate Volume Charge

| Bi-Monthly Fixed Charge | | | | | | | |
|--|----------|----------|---------------------------|---------------------|-------|---------------|--|
| Total EDU'S % of Revenue Collected in Fixed Charge = Bi-Monthly Fixed Charge | 10.00% | \$ \$ | 24,209 912,910 6.28 | | | | |
| Inside Village | 93.50% | | | Outside Village | 6.50% | | |
| Variable Charges | | _ | 2011 | Variable Charges | | 2011 | |
| Consumption = | | | 2,138,481 | Consumption = | | 127,865 | |
| Cost Allocated = | 90.00% | \$ | 7,682,138 | Cost Allocated = | | \$ 534,052 | |
| Unit Rate (per CCF) | | \$ | 3.59 | Unit Rate (per CCF) | | \$ 4.18 | |
| Collected Revenue - Fixed Charge | | \$ | 912,910 | I | | | |
| Collected Revenue - Inside Village | | \$ | 7,682,138 | | | | |
| Collected Revenue - Outside Village | | \$ | 534,052 | | | | |
| Total Collected Revenue | | \$ | 9,129,101 | | | | |
| | <u> </u> | \$ | 9,129,101 | | | <u> </u> | |

Alternative C - Fixed Charge Based on Meter Size with Residential Inclining Block Rate

| Bi-Monthly Fixed Charge | | | | | |
|---|-----------------|-----------------|----------------------------------|-------|---------------|
| , , | | | | | |
| Total EDU's | | 24,209 | | | |
| Cost Allocated = | | \$ 1,258,671 | | | |
| Bi-Monthly Fixed Charge | | \$ 8.67 | | | |
| Inside Village | 93.50% | | Outside Village | 6.50% | |
| Variable Charges | | 2011 | Variable Charges | | 2011 |
| Residential Block Rate Structure | 54% | | Residential Block Rate Structure | 75% | |
| Level 1: 0 - 15 CCFs | | | Level 1: 0 - 15 CCFs | | |
| Consumption = | 69% | 790,801 | Consumption = | 69% | 66,012 |
| Cost Allocated = | | \$ 2,514,046 | Cost Allocated = | | \$ 243,974 |
| Unit Rate (per CCF) | 1.00 | \$ 3.18 | Unit Rate (per CCF) | 1.00 | \$ 3.70 |
| Level 2: 15 - 30 CCFs | | | Level 2: 15 - 30 CCFs | | |
| Consumption = | 21% | 234,958 | Consumption = | 20% | 18,768 |
| Cost Allocated = | | \$ 933,697 | Cost Allocated = | | \$ 86,706 |
| Unit Rate (per CCF) | 1.25 | \$ 3.97 | Unit Rate (per CCF) | 1.25 | \$ 4.62 |
| Level 3: Over 30 CCFs | | | Level 3: Over 30 CCFs | | |
| Consumption = | 10% | 108,321 | Consumption = | 11% | 9,378 |
| Cost Allocated = | | \$ 516,547 | Cost Allocated = | | \$ 51,992 |
| Unit Rate (per CCF) | 1.50 | \$ 4.77 | Unit Rate (per CCF) | 1.5 | \$ 5.54 |
| Non-Residential Unit Rate | 46% | | Non-Residential Unit Rate | 25% | |
| Consumption = | | 986,459 | Consumption = | | 32,219 |
| Cost Allocated = | | \$ 3,394,561 | Cost Allocated = | | \$ 128,905 |
| Unit Rate (per CCF) | | \$ 3.44 | Unit Rate (per CCF) | | \$ 4.00 |
| Collected Revenue - Fixed Charge | | \$ 1,258,671 | I | | |
| Collected Revenue - Inside Village Residential Variable C | Charges | \$ 3,964,291 | | | |
| Collected Revenue - Inside Village Non - Residential Var | | \$ 3,394,561 | | | |
| Collected Revenue - Outside Village Residential Variable | Charges | \$ 382,673 | | | |
| Collected Revenue - Outside Village Non - Residential Va | ariable Charges | \$ 128,905 | | | |
| Total Collected Revenue | = | \$ 9,129,101 | | | |

\$ 9,129,101

Alternative D - Fixed Charge Based on Meter Size with Multiple Class Inclining Block Rates

| Bi-Monthly Fixed Charge | | | | | | | |
|---|------------|----|-----------|----------------------------------|-------|----|---------|
| , | | | | | | | |
| Total EDU's | | | 24,209 | | | | |
| Cost Allocated = | | \$ | 1,258,671 | | | | |
| Bi-Monthly Fixed Charge | | \$ | 8.67 | | | | |
| | | | | | | | |
| Inside Village | 93.50% | | | Outside Village | 6.50% | | |
| | | | 2011 | | | | 2011 |
| Variable Charges | | | | Variable Charges | | | |
| | | | | | | | |
| Residential Block Rate Structure | | | | Residential Block Rate Structure | 75% | | |
| | | | | | | | |
| Level 1: 0 - 15 CCFs | | | | Level 1: 0 - 15 CCFs | | | |
| Consumption = | 69% | | 790,801 | Consumption = | 69% | | 66,012 |
| Cost Allocated = | | \$ | 2,356,918 | Cost Allocated = | | \$ | 236,480 |
| Jnit Rate (per CCF) | 1.00 | \$ | 2.98 | Unit Rate (per CCF) | 1.00 | \$ | 3.58 |
| | | | | | | | |
| evel 2: 15 - 30 CCFs | | | 2240 | Level 2: 15 - 30 CCFs | | | 40.50 |
| Consumption = | 21% | | 234,958 | Consumption = | 20% | | 18,768 |
| Cost Allocated = | | \$ | 875,341 | Cost Allocated = | | \$ | 84,043 |
| Init Rate (per CCF) | 1.25 | \$ | 3.73 | Unit Rate (per CCF) | 1.25 | \$ | 4.48 |
| 12 0 20 000 | | | | | | | |
| evel 3: Over 30 CCFs | | | | Level 3: Over 30 CCFs | | | |
| Consumption = | 10% | | 108,321 | Consumption = | 11% | | 9,378 |
| Cost Allocated = | | \$ | 484,263 | Cost Allocated = | | \$ | 50,396 |
| Jnit Rate (per CCF) | 1.50 | \$ | 4.47 | Unit Rate (per CCF) | 1.50 | \$ | 5.37 |
| | | | | | | | |
| Commercial Unit Rate | | | | Commercial Unit Rate | | | |
| | | | | | | | |
| evel 1: 0 - 100 CCFs | | | | Level 1: 0 - 100 CCFs | | | |
| onsumption = | 37% | | 355,235 | Consumption = | 32% | | 10,367 |
| Cost Allocated = | | \$ | 1,058,749 | Cost Allocated = | | \$ | 37,141 |
| Jnit Rate (per CCF) | 1.00 | \$ | 2.98 | Unit Rate (per CCF) | 1.00 | \$ | 3.58 |
| • | | | | | | _ | |
| evel 2: 100 - 200 CCFs | | | | Level 2: 100 - 200 CCFs | | | |
| Consumption = | 17% | | 152,925 | Consumption = | 25% | | 7,809 |
| Cost Allocated = | | \$ | 569,726 | Cost Allocated = | | \$ | 34,971 |
| Jnit Rate (per CCF) | 1.25 | \$ | 3.73 | Unit Rate (per CCF) | 1.25 | \$ | 4.48 |
| - / | | | | * ′ | | | |
| evel 3: Over 200 CCFs | | | | Level 3: Over 200 CCFs | | | |
| Consumption = | 46% | | 407,843 | Consumption = | 43% | | 12,756 |
| Cost Allocated = | | \$ | 1,823,316 | Cost Allocated = | | \$ | 68,548 |
| Jnit Rate (per CCF) | 1.50 | \$ | 4.47 | Unit Rate (per CCF) | 1.50 | \$ | 5.37 |
| • | | _ | | | | _ | |
| ndustrial Unit Rate | | | | | | | |
| | | | | | | | |
| evel 1: 0 - 130 CCFs | | | | | | | |
| Consumption = | 42% | | 22,223 | | | | |
| Cost Allocated = | | \$ | 66,234 | | | | |
| Init Rate (per CCF) | 1.00 | \$ | 2.98 | | | | |
| | | | | | | | |
| evel 2: 130 - 260 CCFs | | | | | | | |
| Consumption = | 17% | | 8,890 | | | | |
| Cost Allocated = | | \$ | 33,118 | | | | |
| Jnit Rate (per CCF) | 1.25 | \$ | 3.73 | | | | |
| | | | | | | | |
| evel 3: Over 260 CCFs | | | | | | | |
| onsumption = | 41% | | 20,397 | | | | |
| ost Allocated = | | \$ | 91,186 | | | | |
| Jnit Rate (per CCF) | 1.50 | \$ | 4.47 | | | | |
| - / | | | | | | | |
| ollected Revenue - Fixed Charge | | \$ | 1,258,671 | <u> </u> | | | |
| Collected Revenue - Inside Village Residential Variable | le Charges | \$ | 3,716,521 | | | | |
| Collected Revenue - Inside Village Commercial Varial | | \$ | 3,451,792 | | | | |
| Collected Revenue - Inside Village Industrial Variable | | \$ | 190,539 | | | | |
| Collected Revenue - Outside Village Residential Varia | | \$ | 370,919 | | | | |
| Collected Revenue - Outside Village Commercial Vari | | \$ | 140,659 | | | | |
| | | | | | | | |

Village of Downers Grove Water Rate Study

SCHEDULE 15 - RATE PROJECTIONS

| | Current Rates | | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|--|---------------|-----------------|----------------------------------|-------------------------------|------------------------------|---------------------------------|-----------------------------------|-------------------------------|-------------------------------|-------------------------------------|-------------------------------|-----------------------------|
| Net Revenue Requirements | | \$ | 9,129,101 \$ | 10,224,764 \$ | 11,131,088 \$ | 11,708,405 | \$ 12,413,988 \$ | 16,239,857 \$ | 18,024,771 \$ | 19,080,535 \$ | 20,100,332 \$ | 21,209,378 |
| Rev. Req Fixed Portion13.89Rev. Req Variable Portion86.29 | | \$ \$ | 1,258,671 \$ 7,870,429 \$ | 1,296,431 \$ 8,928,332 \$ | 1,335,324 \$ 9,795,764 \$ | 1,375,384 S 10,333,021 S | | 1,459,145 \$ 14,780,712 \$ | 1,502,919 \$ 16,521,852 \$ | 1,548,007 \$ 17,532,528 \$ | 1,594,447 \$ 18,505,885 \$ | 1,642,281 19,567,098 |
| Total Inside Village EDU's Total Outside Village EDU's | | | 22,738 1,471 | 22,738 1,471 | 22,738 1,471 | 22,738 1,471 | 22,738 1,471 | 22,738 1,471 | 22,738 1,471 | 22,738 1,471 | 22,738 1,471 | 22,738 1,471 |
| Inside Village Consumption | | | 064 | 057 | 0.47 | 920 | 920 | 922 | 014 | 006 | 700 | 700 |
| 0 - 1 CCF Over 1 CCF | | | 864 2,137,617 | 856 2,116,241 | 847 2,095,078 | 839 2,074,127 | 830 2,053,386 | 822 2,032,852 | 814 2,012,524 | 806 1,992,398 | 798 1,972,474 | 790 1,952,750 |
| Residential (in CCFs) Non-Residential (in CCFs) | | | 1,152,022 986,459 | 1,140,502 976,594 | 1,129,097 966,828 | 1,117,806 957,160 | 1,106,628 947,588 | 1,095,562 938,113 | 1,084,606 928,731 | 1,073,760 919,444 | 1,063,022 910,250 | 1,052,392 901,147 |
| Commercial (in CCFs) | | | 934,107 | 924,766 | 915,518 | 906,363 | 897,299 | 93 8,113 888,326 | 879,443 | 870,649 | 861,942 | 853,323 |
| Industrial (in CCFs) | | | 52,352 | 51,829 | 51,310 | 50,797 | 50,289 | 49,786 | 49,288 | 48,796 | 48,308 | 47,824 |
| Outside Village Consumption | | | | | | == | | | | 70 | 5 0 | |
| 0 - 1 CCF Over 1 CCF | | | 75 127,789 | 75 126,511 | 74 125,246 | 73 123,994 | 72 122,754 | 72 121,526 | 71 120,311 | 70 119,108 | 70 117,917 | 69 116,738 |
| | | | 95,646 | 94,690 | 93,743 | 92,805 | | 90,958 | 90,049 | 89,148 | 00 257 | 87,374 |
| Residential (in CCFs) Non-Residential (in CCFs) | | | 32,219 | 31,897 | 31,578 | 31,262 | 91,877 30,949 | 30,640 | 30,333 | 30,030 | 88,257 29,730 | 29,432 |
| Alternative A - Current Rate Structure | | | | | | | | | | | | |
| Breakeven Rates | | | | | | | | | | | | |
| Inside Village 93.50 | 1/6 | | | | | | | | | | | |
| Unit Rate per CCF | \$ 3.3 | \$1 \$ | 3.99 \$ 20.5% | 4.51 \$ 13.1% | 4.96 \$ 10.0% | 5.27 § | \$ 5.65 \$ 7.1% | 7.46 \$ 32.1% | 8.37 \$ 12.1% | 8.95 \$ 6.9% | 9.52 \$ 6.4% | 10.15 6.6% |
| Outside Village 6.509 | 6 | | 20.570 | 15.170 | 10.070 | 0.270 | 7.170 | 32.170 | 12.170 | 0.570 | 0.470 | 0.070 |
| Unit Rate per CCF | \$ 3.8 | 35 \$ | 4.64 \$ 20.5% | 5.25 \$ 13.1% | 5.77 \$ 10.0% | 6.13 | 6.57 \$ 7.1% | 8.68 \$ 32.1% | 9.73 \$ 12.1% | 10.40 \$ 6.9% | 11.07 \$ 6.4% | 11.80 6.6% |
| Total Collected Revenue - Inside Village | | \$ | 8,535,709 \$ | | 10,407,568 \$ | | \$ 11,607,078 \$ | | | | | |
| Total Collected Revenue - Outside Village Total Collected Revenue | | \$ \$ | 593,392 \$ 9,129,101 \$ | 664,610 \$ | 723,521 \$ | 761,046 5 | \$ 806,909 \$ \$ 12,413,988 \$ | | 1,171,610 \$ | | 1,306,522 \$ | 1,378,610 |
| Total Required Revenue | | \$ | 9,129,101 \$ | 10,224,764 \$ | 11,131,088 \$ | 11,708,405 | \$ 12,413,988 \$ | 16,239,857 \$ | 18,024,771 \$ | 19,080,535 \$ | 20,100,332 \$ | |
| Total Surplus/Shortfall | | \$ | - \$ | - \$ | - \$ | - 5 | - \$ | - \$ | - \$ | - \$ | - \$ | - |
| User Defined Rates | | | | | | | | | | | | |
| Inside Village | | | 14.7% | 14.0% | 14.0% | 10.0% | 9.0% | 10.0% | 10.0% | 10.0% | 10.0% | 10.0% |
| Unit Rate per CCF | \$ 3.3 | 31 | \$3.80 | \$4.33 | \$4.93 | \$5.43 | \$5.92 \$ | | 7.16 \$ | | 8.66 \$ | 9.53 |
| Outside Village | | | | | | | | | | | | |
| Unit Rate per CCF | \$ 3.8 | 85 | 14.7% \$4.42 | 14.0% \$5.03 | 14.0% \$5.74 | 10.0% \$6.31 | 9.0% \$6.88 \$ | 10.0% 7.57 \$ | 10.0% 8.33 \$ | 10.0% 9.16 \$ | 10.0% 10.07 \$ | 10.0% 11.08 |
| | ψ 5.0 | | | | | | | | | | | |
| Total Collected Revenue - Inside Village Total Collected Revenue - Outside Village | | \$ \$ | 8,122,175 \$ 564,978 \$ | 9,166,687 \$ 637,634 \$ | 10,345,523 \$ 719,634 \$ | 11,266,275 \$ 783,681 \$ | \$ 12,157,437 \$ \$ 845,670 \$ | | | | 17,098,324 \$ 1,189,358 \$ | 18,620,075 1,295,211 |
| Total Collected Revenue | | \$ | 8,687,153 \$ | 9,804,321 \$ | 11,065,157 \$ | 12,049,956 | \$ 13,003,107 \$ | 14,160,384 \$ | 15,420,658 \$ | 16,793,097 \$ | 18,287,682 \$ | 19,915,286 |
| Total Required Revenue Total Surplus/Shortfall | | \$ \$ | 9,129,101 \$ (441,947) \$ | 10,224,764 \$ (420,442) \$ | 11,131,088 \$ (65,931) \$ | 11,708,405 \$ 341,551 \$ | 12,413,988 \$ 589,120 \$ | | | 19,080,535 \$ (2,287,439) \$ | | |

Village of Downers Grove Water Rate Study

| Alternative B - Fixed Charge Based on Meter Size with Unit Rate Volume Charge | Alternative B | - Fixed Charge | e Based on Meter Si | ize with Unit Rate | Volume Charge |
|---|---------------|----------------|---------------------|--------------------|---------------|
|---|---------------|----------------|---------------------|--------------------|---------------|

| User Defined Rates | | | | | | | | | | | |
|--|----------------------------|--|---------|---|---|--|---|--|---|--|--|
| Bi-Monthly Fixed Charge | | \$8.25 | \$9.31 | \$10.50 | \$11.44 | \$12.34 | \$13.44 | \$14.64 | \$15.94 | \$17.36 | \$18.90 |
| Inside Village | 93.5% | | | | | | | | | | |
| Unit Rate per CCF | | \$3.27 | \$3.73 | \$4.26 | \$4.68 | \$5.10 \$ | 5.61 \$ | 6.17 \$ | 6.79 \$ | 7.47 \$ | 8.22 |
| Outside Village | 6.5% | | | | | | | | | | |
| Unit Rate per CCF | | \$3.81 | \$4.34 | \$4.95 | \$5.44 | \$5.93 \$ | 6.53 \$ | 7.18 \$ | 7.90 \$ | 8.69 \$ | 9.55 |
| Total Collected Revenue - Fixed Charge Total Collected Revenue - Inside Village Total Collected Revenue - Outside Village Total Collected Revenue Total Required Revenue Total Surplus/Shortfall | | \$ 1,197,738 \$ \$ 7,002,603 \$ \$ 486,812 \$ \$ 8,687,153 \$ \$ 9,129,101 \$ \$ (441,947) \$ | | 8,919,482 \$ 620,071 \$ 11,065,157 \$ 11,131,088 \$ | 675,257 S 12,049,956 S 11,708,405 S | \$ 10,481,639 \$ 728,670 \$ 13,003,107 \$ 12,413,988 \$ | 11,414,505 \$ 793,522 \$ 14,160,384 \$ 16,239,857 \$ | 12,430,396 \$ 864,145 \$ 15,420,658 \$ 18,024,771 \$ | 13,536,701 \$ 941,054 \$ 16,793,097 \$ 19,080,535 \$ | 14,741,467 \$ 1,024,808 \$ 18,287,682 \$ | 16,053,458 1,116,016 19,915,286 21,209,378 |
| Alternative B Phase-In - Fixed Charge Based on Meter Size with | th Unit Rate Volume Charge | | 6.50 | 2.17 | 11.67 | | | | | | |
| User Defined Rates % of Revenues Collected in Fix | ed Charge | 9.50% | 12% | 14% | 14% | 14% | 14% | 14% | 14% | 14% | 14% |
| Bi-Monthly Fixed Charge | ed Charge | \$ 5.68 \$ | 7.76 \$ | | 11.44 | | | 14.64 \$ | 15.94 \$ | | 18.90 |
| % of Revenues Collected in Variabl Inside Village | le Charges 93.5% | 91% | 89% | 86% | 86% | 86% | 86% | 86% | 86% | 86% | 86% |
| Unit Rate per CCF | 95.570 | \$ 3.44 \$ | 3.83 \$ | 4.26 \$ | 4.68 | 5.10 \$ | 5.61 \$ | 6.17 \$ | 6.79 \$ | 7.47 \$ | 8.22 |
| Outside Village | 6.5% | | | 4 | | | 2.0.2 | | 4 | ,,,, | |
| Unit Rate per CCF | | \$ 4.00 \$ | 4.46 \$ | 4.95 \$ | 5.44 | 5.93 \$ | 6.53 \$ | 7.18 \$ | 7.90 \$ | 8.69 \$ | 9.55 |
| Total Collected Revenue - Fixed Charge Total Collected Revenue - Inside Village Total Collected Revenue - Outside Village Total Collected Revenue Total Required Revenue Total Surplus/Shortfall | | \$ 825,280 \$ \$ 7,350,852 \$ \$ 511,022 \$ \$ 8,687,153 \$ 9,129,101 \$ \$ (441,947) \$ | | 8,919,482 \$ 620,071 \$ 11,065,157 \$ 11,131,088 \$ | 9,713,316 8 675,257 8 12,049,956 8 11,708,405 8 | \$ 10,481,639 \$ 728,670 \$ 13,003,107 \$ 12,413,988 \$ | 11,414,505 \$ 793,522 \$ 14,160,384 \$ 16,239,857 \$ | 12,430,396 \$ 864,145 \$ 15,420,658 \$ 18,024,771 \$ | 13,536,701 \$ 941,054 \$ 16,793,097 \$ 19,080,535 \$ | 14,741,467 \$ 1,024,808 \$ 18,287,682 \$ | 16,053,458 1,116,016 19,915,286 21,209,378 |
| Alternative C - Fixed Charge Based on Meter Size with Reside | ntial Inclining Block Rate | | | | | | | | | | |
| User Defined Rates | | | | | | | | | | | |
| Bi-Monthly Fixed Charge | | \$ 8.25 \$ | 9.31 \$ | 10.50 \$ | 11.44 | \$ 12.34 \$ | 13.44 \$ | 14.64 \$ | 15.94 \$ | 17.36 \$ | 18.90 |
| Inside Village | 93.50% | | | | | | | | | | |
| Variable Charges | Conservation | | | | | | | | | | |
| Residential Block Rate Structure | 54% | | | | | | | | | | |
| Level 1: 0 - 15 CCFs Unit Rate (per CCF) | 69% | \$ 3.03 \$ | 3.45 \$ | 3.93 \$ | 4.32 | \$ 4.71 \$ | 5.19 \$ | 5.70 \$ | 6.27 \$ | 6.90 \$ | 7.59 |
| Level 2: 15 - 30 CCFs Unit Rate (per CCF) | 21% 1.25 4% | \$ 3.78 \$ | 4.31 \$ | 4.91 \$ | 5.41 | \$ 5.89 \$ | 6.48 \$ | 7.13 \$ | 7.84 \$ | 8.63 \$ | 9.49 |
| Level 3: Over 30 CCFs Unit Rate (per CCF) | 10% 1.5 7% | \$ 4.54 \$ | 5.17 \$ | 5.90 \$ | 6.49 | § 7.07 \$ | 7.78 \$ | 8.56 \$ | 9.41 \$ | 10.35 \$ | 11.39 |
| Non-Residential Unit Rate | 46% | \$ 3.27 \$ | 3.73 \$ | 4.26 \$ | 4.68 | 5.10 \$ | 5.61 \$ | 6.17 \$ | 6.79 \$ | 7.47 \$ | 8.22 |

| SCHEDULE 15 - RATE PROJECTIONS Outside Village | 6.50% | Village of Downers Grove Water Rate Study |
|--|-------|--|
| Variable Charges | | |
| Residential Block Rate Structure | 75% | |

| Variable Charges | | | | | | | | | | | | |
|---|---------------------------|--|--|---------|---|--|---|---|---|---|---|---|
| Residential Block Rate Structure | 75% | | | | | | | | | | | |
| Level 1: 0 - 15 CCFs Unit Rate (per CCF) | 69% | \$: | 3.52 \$ | 4.01 | \$ 4.57 \$ | 5.03 \$ | 5.48 \$ | 6.03 | \$ 6.63 \$ | 7.29 \$ | 8.02 \$ | 8.83 |
| Level 2: 15 - 30 CCFs Unit Rate (per CCF) | 20% 1.25 4% | \$ | 1.40 \$ | 5.01 | \$ 5.71 \$ | 6.28 \$ | 6.85 \$ | 7.54 | \$ 8.29 \$ | 9.12 \$ | 10.03 \$ | 11.03 |
| Level 3: Over 30 CCFs Unit Rate (per CCF) | 11% 1.5 7% | s : | 5.28 \$ | 6.01 | \$ 6.86 \$ | 7.54 \$ | 8.22 \$ | 9.04 | \$ 9.95 \$ | 10.94 \$ | 12.04 \$ | 13.24 |
| Non-Residential Unit Rate | 25% | \$: | 8.81 \$ | 4.34 | \$ 4.95 \$ | 5.44 \$ | 5.93 \$ | 6.53 | \$ 7.18 \$ | 7.90 \$ | 8.69 \$ | 9.55 |
| Collected Revenue - Fixed Charge Collected Revenue - Inside Village Residential Variable Charges Collected Revenue - Inside Village Non - Residential Variable Charges Collected Revenue - Outside Village Residential Variable Charges Collected Revenue - Outside Village Non - Residential Variable Charges Total Collected Revenue Total Required Revenue Total Surplus/Shortfall | | \$ 3,772, \$ 3,230, \$ 364, \$ 122, \$ 8,687, \$ 9,129 | 738 \$ 376 \$ 227 \$ 147 \$ 665 \$ 153 \$ 101 \$ 947) \$ | | \$ 4,805,019 \$ 4,114,463 \$ 463,828 \$ 156,243 \$ 11,065,157 \$ 11,131,088 \$ | 5,232,665 \$ 4,480,650 \$ 505,109 \$ 170,148 \$ 12,049,956 \$ 11,708,405 \$ | 5,646,569 \$ 4,835,070 \$ 545,063 \$ 183,607 \$ 13,003,107 \$ 12,413,988 \$ | 6,149,114 5,265,391 593,574 199,948 14,160,384 16,239,857 | \$ 6,696,385 \$ 5,734,011 \$ 646,402 \$ 217,744 \$ 15,420,658 \$ 18,024,771 \$ | 7,292,363 \$ 6,244,338 \$ 703,931 \$ 237,123 \$ 16,793,097 \$ | 7,941,383 \$ 6,800,084 \$ 766,581 \$ 258,227 \$ 18,287,682 \$ 20,100,332 \$ | 8,648,166 7,405,291 834,807 281,209 19,915,286 21,209,378 |
| Alternative D - Fixed Charge Based on Meter Size with Multiple Class | Inclining Block Rate | | | | | | | | | | | |
| User Defined Rates Bi-Monthly Fixed Charge | | \$ | 3.25 \$ | 9.31 | \$ 10.50 \$ | 11.44 \$ | 12.34 \$ | 13.44 | \$ 14.64 \$ | 15.94 \$ | 17.36 \$ | 18.90 |
| Inside Village | 93.50% | | | | | | | | | | | |
| Variable Charges | Conservation | | | | | | | | | | | |
| Residential Block Rate Structure | | | | | | | | | | | | |
| Level 1: 0 - 15 CCFs Unit Rate (per CCF) | 69% | \$ | 2.86 \$ | 3.27 | \$ 3.72 \$ | 4.09 \$ | 4.46 \$ | 4.91 | \$ 5.40 \$ | 5.94 \$ | 6.53 \$ | 7.19 |
| Level 2: 15 - 30 CCFs Unit Rate (per CCF) | 21% 4% 1.25 | \$: | 3.58 \$ | 4.08 | \$ 4.65 \$ | 5.12 \$ | 5.58 \$ | 6.14 | \$ 6.75 \$ | 7.43 \$ | 8.17 \$ | 8.99 |
| Level 3: Over 30 CCFs Unit Rate (per CCF) | 10% 1.50 7% | \$ | 1.30 \$ | 4.90 | \$ 5.58 \$ | 6.14 \$ | 6.69 \$ | 7.36 | \$ 8.10 \$ | 8.91 \$ | 9.80 \$ | 10.78 |
| Commercial Unit Rate | | | | | | | | | | | | |
| Level 1: 0 - 100 CCFs Unit Rate (per CCF) | 37% | \$: | 2.86 \$ | 3.27 | \$ 3.72 \$ | 4.09 \$ | 4.46 \$ | 4.91 | \$ 5.40 \$ | 5.94 \$ | 6.53 \$ | 7.19 |
| Level 2: 100 - 200 CCFs Unit Rate (per CCF) | 17% | | | | | | | | | | | |
| | 1.25 4% | \$ | 3.58 \$ | 4.08 | \$ 4.65 \$ | 5.12 \$ | 5.58 \$ | 6.14 | \$ 6.75 \$ | 7.43 \$ | 8.17 \$ | 8.99 |
| Level 3: Over 200 CCFs Unit Rate (per CCF) | | | 3.58 \$ 4.30 \$ | 4.08 \$ | | 5.12 \$ 6.14 \$ | | 6.147.36 | | | 8.17 \$ 9.80 \$ | 8.99 10.78 |
| | 1.25 4% | | | | | | | | | | | |
| Unit Rate (per CCF) | 1.25 4% 46% 1.50 7% | \$ · | | | \$ 5.58 \$ | 6.14 \$ | 6.69 \$ | | \$ 8.10 \$ | 8.91 \$ | | |
| Unit Rate (per CCF) Industrial Unit Rate Level 1: 0 - 130 CCFs | 1.25 4% 46% 1.50 7% | s . | 1.30 \$ | 4.90 | \$ 5.58 \$ \$ 3.72 \$ | 6.14 \$ 4.09 \$ | 6.69 \$ 4.46 \$ | 7.36 | \$ 8.10 \$ \$ 5.40 \$ | 8.91 \$ 5.94 \$ | 9.80 \$ | 10.78 |

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SCHEDULE 15 - RATE PROJECTIONS

Village of Downers Grove Water Rate Study

| Outside Village | 6.50% | | | | | | | | | | | | | | | | | | |
|--|-------------|----|--|--|----------------------------------|---|------|--|--|----------------------------|---|---|----------------------------|--|----------------------------------|--|------------|--|--|
| Variable Charges | | | | | | | | | | | | | | | | | | | |
| Residential Block Rate Structure | | | | | | | | | | | | | | | | | | | |
| Level 1: 0 - 15 CCFs Unit Rate (per CCF) | 69% | | \$ | 3.41 | \$ | 3.89 \$ | 4.43 | \$ | 4.87 | \$ | 5.31 | 5.84 | \$ | 6.43 | \$ | 7.07 \$ | 7.78 | \$ | 8.55 |
| Level 2: 15 - 30 CCFs Unit Rate (per CCF) | 20% 1.25 | 4% | s | 4.26 | \$ | 4.86 \$ | 5.54 | \$ | 6.09 | \$ | 6.64 | \$ 7.30 | \$ | 8.03 | \$ | 8.84 \$ | 9.72 | \$ | 10.69 |
| Level 3: Over 30 CCFs Unit Rate (per CCF) | 11% 1.50 | 7% | \$ | 5.11 | \$ | 5.83 \$ | 6.65 | \$ | 7.31 | \$ | 7.97 | \$ 8.76 | \$ | 9.64 | \$ | 10.61 \$ | 11.67 | \$ | 12.83 |
| Commercial Unit Rate | | | | | | | | | | | | | | | | | | | |
| Level 1: 0 - 100 CCFs Unit Rate (per CCF) | 32% 1.00 | | \$ | 3.41 | \$ | 3.89 \$ | 4.43 | \$ | 4.87 | \$ | 5.31 | \$ 5.84 | \$ | 6.43 | \$ | 7.07 \$ | 7.78 | \$ | 8.55 |
| Level 2: 100 - 200 CCFs Unit Rate (per CCF) | 25% 1.25 | 4% | s | 4.26 | \$ | 4.86 \$ | 5.54 | \$ | 6.09 | \$ | 6.64 | \$ 7.30 | \$ | 8.03 | \$ | 8.84 \$ | 9.72 | \$ | 10.69 |
| Level 3: Over 200 CCFs Unit Rate (per CCF) | 43% 1.50 | 7% | \$ | 5.11 | \$ | 5.83 \$ | 6.65 | \$ | 7.31 | \$ | 7.97 | \$ 8.76 | \$ | 9.64 | \$ | 10.61 \$ | 11.67 | \$ | 12.83 |
| Collected Revenue - Fixed Charge Collected Revenue - Inside Village Residential Variable Charges Collected Revenue - Inside Village Commercial Variable Charges Collected Revenue - Inside Village Industrial Variable Charges Collected Revenue - Outside Village Residential Variable Charges Collected Revenue - Outside Village Commercial Variable Charges Total Collected Revenue Total Required Revenue Total Surplus/Shortfall | | | \$ \$ \$ \$ \$ \$ \$ \$ | 1,197,738 3,571,782 3,251,347 179,474 352,963 133,849 8,687,153 9,129,101 (441,947) | \$ \$ \$ \$ \$ \$ | 1,351,767 \$ 4,031,114 \$ 3,669,470 \$ 202,555 \$ 398,354 \$ 151,062 \$ 9,804,321 \$ 10,224,764 \$ (420,442) \$ | | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 1,661,383 4,954,422 4,509,945 248,949 489,595 185,662 12,049,956 11,708,405 341,551 | \$ \$ \$ \$ \$ | 1,792,799 5,346,316 4,866,682 268,641 528,322 200,348 13,003,107 12,413,988 589,120 | \$ 5,822,138 \$ 5,299,817 \$ 292,550 \$ 575,342 218,179 \$ 14,160,384 16,239,857 | \$ \$ \$ \$ \$ | 2,126,117 6,340,309 5,771,500 318,586 626,548 237,597 15,420,658 18,024,771 (2,604,113) | \$ \$ \$ \$ \$ \$ | 2,315,342 \$ 6,904,596 \$ 6,285,164 \$ 346,941 \$ 682,311 \$ 258,743 \$ 16,793,097 \$ 19,080,535 \$ (2,287,439) \$ | 20,100,332 | \$ \$ \$ \$ \$ \$ \$ | 2,745,813 8,188,306 7,453,708 411,444 809,166 306,849 19,915,286 21,209,378 (1,294,092) |

SCHEDULE 16A - INSIDE VILLAGE SAMPLE BILLS

| PLE BILLS | | . n . | т. | **** | | **** | | 2012 | | **** | | 2045 |
|---|------------|-----------|-------|-----------|------|--------------|------|------------|------|-------|---|-------|
| | | nt Rates | | 2011 | | 2012 | | 2013 | | 2014 | | 2015 |
| | Alternativ | e A - Cur | rent | Rate St | ruc | ture | | | | | | |
| Inside Village - Unit Rate per CCF (Min 2 CCFs) | \$ | 3.31 | \$ | 3.80 | \$ | 4.33 | s | 4.93 | s | 5.43 | s | 5.92 |
| Alternative B - Fixed | Charge B | ased on N | lete | r Size wi | th l | Unit Rate V | oluı | ne Charge | , | | | |
| Inside Village - Bi-Monthly Fixed Charge | | | s | 8.25 | s | 9.31 | s | 10.50 | s | 11.44 | s | 12.34 |
| Inside Village - Unit Rate per CCF (No Minimum) | | | \$ | 3.27 | | 3.73 | | 4.26 | | 4.68 | s | 5.10 |
| Alternative C - Fixed Ch | rge Base | d on Met | er Si | ze with | Res | idential Inc | lini | ng Block F | tate | | | |
| | | | | | | | | | | | | |
| Inside Village - Bi-Monthly Fixed Charge Inside Village - Residential Inclining Block Rate | | | \$ | 8.25 | \$ | 9.31 | S | 10.50 | S | 11.44 | s | 12.34 |
| Level 1: 0 - 15 CCFs per CCF | | | s | 3.03 | s | 3.45 | e | 3.93 | • | 4.32 | ç | 4.71 |
| Level 2: 15 - 30 CCFs per CCF | | | S | 3.78 | S | 4.31 | | 4.91 | S | 5.41 | | 5.89 |
| Level 3: Over 30 CCFs per CCF | | | Š | 4.54 | s | 5.17 | | 5.90 | Š | 6.49 | | 7.07 |
| Inside Village - Non-Residential Unit Rate per CCF | | | s | 3.27 | s | | s | 4.26 | Š | 4.68 | Š | 5.10 |
| Alternative D - Fixed Char | ge Based | on Meter | Size | with M | ulti | ple Class In | clin | ing Block | Rat | | | |
| | | | | | | | | | | | | |
| Inside Village - Bi-Monthly Fixed Charge | | | \$ | 8.25 | \$ | 9.31 | S | 10.50 | S | 11.44 | S | 12.34 |
| Inside Village - Residential Inclining Block Rate | | | | | | | | | | | | |
| Level 1: 0 - 15 CCFs per CCF | | | \$ | 2.86 | \$ | 3.27 | S | 3.72 | S | 4.09 | S | 4.46 |
| Level 2: 15 - 30 CCFs per CCF | | | \$ | 3.58 | \$ | 4.08 | S | 4.65 | S | 5.12 | S | 5.58 |
| Level 3: Over 30 CCFs per CCF | | | \$ | 4.30 | \$ | 4.90 | S | 5.58 | S | 6.14 | S | 6.69 |
| Commercial Unit Rate per CCF | | | | | | | | | | | | |
| Level 1: 0 - 100 CCFs per CCF | | | \$ | 2.86 | \$ | 3.27 | S | 3.72 | S | 4.09 | S | 4.46 |
| Level 2: 100 - 200 CCFs per CCF | | | \$ | 3.58 | \$ | 4.08 | S | 4.65 | S | 5.12 | S | 5.58 |
| Level 3: Over 200 CCFs per CCF | | | \$ | 4.30 | \$ | 4.90 | S | 5.58 | S | 6.14 | S | 6.69 |
| Industrial Unit Rate | | | | | | | | | | | | |
| Level 1: 0 - 130 CCFs | | | \$ | 2.86 | \$ | 3.27 | S | 3.72 | S | 4.09 | S | 4.46 |
| Level 2: 130 - 260 CCFs | | | \$ | 3.58 | \$ | 4.08 | S | 4.65 | S | 5.12 | S | 5.58 |
| Level 3: Over 260 CCFs | | | \$ | 4.30 | \$ | 4.90 | S | 5.58 | S | 6.14 | S | 6.69 |

| Meter Size | Equivalent | | | | |
|------------|------------|----------|----------|----------|------------|
| 5/8 | 1.00 | \$8.20 | \$5.68 | \$7.76 | \$10.50 |
| 1 | 1.50 | \$12.37 | \$8.52 | \$11.64 | \$15.75 |
| 1 1/2 | 5.00 | \$41.23 | \$28.41 | \$38.81 | \$52.52 |
| 2 | 8.00 | \$65.97 | \$45.45 | \$62.10 | \$84.02 |
| 3 | 15.00 | \$123.69 | \$85.22 | \$116.43 | \$157.55 |
| 4 | 25.00 | \$206.15 | \$142.04 | \$194.06 | \$262.58 |
| 6 | 50.00 | \$412.29 | \$284.08 | \$388.11 | \$525.15 |
| 10 | 120.00 | \$080.50 | \$681.80 | \$031.47 | \$1.260.36 |

| | | | | Alternative A | | | | | | | | | | | | |
|------------|--------------------------------|----------------|--------------|---------------|--------------|---|----------|--------------|---|----------|--------------|----|----------|--------------|----------------|--------------|
| Meter Size | Water Consumption (in CCFs) | Customer Class | Current Bill | 2011 | % Difference | | 2012 | % Difference | | 2013 | % Difference | | 2014 | % Difference | 2015 | % Difference |
| 5/8 | 1 | Residential | \$6.62 | \$7.59 | 14.70% | S | 8.66 | 14.00% | S | 9.87 | 14.00% | \$ | 10.85 | 10.00% | \$ 11.83 | 9.00% |
| 5/8 | 10 | Residential | \$33.10 | \$37.97 | 14.70% | S | 43.28 | 14.00% | S | 49.34 | 14.00% | \$ | 54.27 | 10.00% | \$ 59.16 | 9.00% |
| 5/8 | 15 | Residential | \$49.65 | \$56.95 | 14.70% | S | 64.92 | 14.00% | S | 74.01 | 14.00% | \$ | 81.41 | 10.00% | \$ 88.74 | 9.00% |
| 5/8 | 40 | Residential | \$132.40 | \$151.86 | 14.70% | S | 173.12 | 14.00% | S | 197.36 | 14.00% | \$ | 217.10 | 10.00% | \$ 236.64 | 9.00% |
| 5/8 | 5 | Commercial | \$16.55 | \$18.98 | 14.70% | S | 21.64 | 14.00% | S | 24.67 | 14.00% | \$ | 27.14 | 10.00% | \$ 29.58 | 9.00% |
| 1 1/2 | 50 | Commercial | \$165.50 | \$189.83 | 14.70% | S | 216.40 | 14.00% | S | 246.70 | 14.00% | \$ | 271.37 | 10.00% | \$ 295.79 | 9.00% |
| 1 1/2 | 100 | Commercial | \$331.00 | \$379.66 | 14.70% | S | 432.81 | 14.00% | S | 493.40 | 14.00% | \$ | 542.74 | 10.00% | \$ 591.59 | 9.00% |
| 1 1/2 | 250 | Commercial | \$827.50 | \$949.14 | 14.70% | S | 1,082.02 | 14.00% | S | 1,233.51 | 14.00% | \$ | 1,356.86 | 10.00% | \$ 1,478.97 | 9.00% |
| 5/8 | 60 | Industrial | \$198.60 | \$227.79 | 14.70% | S | 259.69 | 14.00% | S | 296.04 | 14.00% | \$ | 325.65 | 10.00% | \$ 354.95 | 9.00% |
| 2 | 120 | Industrial | \$397.20 | \$455.59 | 14.70% | S | 519.37 | 14.00% | S | 592.08 | 14.00% | \$ | 651.29 | 10.00% | \$ 709.91 | 9.00% |
| 2 | 200 | Industrial | \$662.00 | \$759.31 | 14.70% | S | 865.62 | 14.00% | S | 986.80 | 14.00% | \$ | 1,085.48 | 10.00% | \$ 1,183.18 | 9.00% |
| 2 | 400 | Industrial | \$1,324.00 | \$1,518.63 | 14.70% | S | 1,731.24 | 14.00% | S | 1,973.61 | 14.00% | \$ | 2,170.97 | 10.00% | \$ 2,366.36 | 9.00% |

| | | | | Alternative B | | | | | | | | | | |
|------------|--------------------------------|----------------|--------------|---------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|--|
| Meter Size | Water Consumption (in CCFs) | Customer Class | Current Bill | 2011 | % Difference | 2012 | % Difference | 2013 | % Difference | 2014 | % Difference | 2015 | % Difference | |
| 5/8 | 1 | Residential | \$6.62 | \$11.52 | 74.02% | \$13.04 | 13.18% | \$14.76 | 13.19% | \$16.12 | 9.22% | \$17.45 | 8.23% | |
| 5/8 | 10 | Residential | \$33.10 | \$40.99 | 23.84% | \$46.64 | 13.77% | \$53.06 | 13.77% | \$58.25 | 9.78% | \$63.37 | 8.79% | |
| 5/8 | 15 | Residential | \$49.65 | \$57.36 | 15.54% | \$65.30 | 13.84% | \$74.34 | 13.84% | \$81.66 | 9.84% | \$88.88 | 8.85% | |
| 5/8 | 40 | Residential | \$132.40 | \$139.23 | 5.16% | \$158.63 | 13.93% | \$180.73 | 13.93% | \$198.69 | 9.94% | \$216.44 | 8.94% | |
| 5/8 | 5 | Commercial | \$16.55 | \$24.62 | 48.75% | \$27.97 | 13.62% | \$31.78 | 13.62% | \$34.84 | 9.64% | \$37.86 | 8.64% | |
| 1 1/2 | 50 | Commercial | \$165.50 | \$204.96 | 23.84% | \$233.18 | 13.77% | \$265.30 | 13.77% | \$291.25 | 9.78% | \$316.84 | 8.79% | |
| 1 1/2 | 100 | Commercial | \$331.00 | \$368.69 | 11.39% | \$419.83 | 13.87% | \$478.08 | 13.87% | \$525.31 | 9.88% | \$571.96 | 8.88% | |
| 1 1/2 | 250 | Commercial | \$827.50 | \$859.87 | 3.91% | \$979.78 | 13.95% | \$1,116.42 | 13.95% | \$1,227.49 | 9.95% | \$1,337.34 | 8.95% | |
| 5/8 | 60 | Industrial | \$198.60 | \$204.72 | 3.08% | \$233.29 | 13.95% | \$265.84 | 13.95% | \$292.31 | 9.96% | \$318.49 | 8.96% | |
| 2 | 120 | Industrial | \$397.20 | \$458.91 | 15.54% | \$522.41 | 13.84% | \$594.70 | 13.84% | \$653.25 | 9.84% | \$711.04 | 8.85% | |
| 2 | 200 | Industrial | \$662.00 | \$720.88 | 8.89% | \$821.05 | 13.90% | \$935.15 | 13.90% | \$1,027.74 | 9.90% | \$1,119.24 | 8.90% | |
| 2 | 400 | Industrial | \$1,324.00 | \$1,375.79 | 3.91% | \$1,567.65 | 13.95% | \$1,786.28 | 13.95% | \$1,963.98 | 9.95% | \$2,139.74 | 8.95% | |
| | | | | | | | | | | | | | | |

| | | | | Alternative C | | | | | | | | | | |
|------------|--------------------------------|----------------|--------------|---------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|--|
| Meter Size | Water Consumption (in CCFs) | Customer Class | Current Bill | 2011 | % Difference | 2012 | % Difference | 2013 | % Difference | 2014 | % Difference | 2015 | % Difference | |
| 5/8 | 1 | Residential | \$6.62 | \$11.27 | 70.26% | \$12.75 | 13.17% | \$14.43 | 13.17% | \$15.76 | 9.20% | \$17.06 | 8.21% | |
| 5/8 | 10 | Residential | \$33.10 | \$38.50 | 16.31% | \$43.79 | 13.76% | \$49.82 | 13.76% | \$54.68 | 9.77% | \$59.48 | 8.77% | |
| 5/8 | 15 | Residential | \$49.65 | \$53.62 | 8.00% | \$61.04 | 13.82% | \$69.48 | 13.83% | \$76.31 | 9.83% | \$83.05 | 8.84% | |
| 5/8 | 40 | Residential | \$132.40 | \$155.72 | 17.62% | \$177.43 | 13.94% | \$202.17 | 13.94% | \$222.27 | 9.94% | \$242.15 | 8.94% | |
| 5/8 | 5 | Commercial | \$16.55 | \$24.62 | 48.75% | \$27.97 | 13.62% | \$31.78 | 13.62% | \$34.84 | 9.64% | \$37.86 | 8.64% | |
| 1 1/2 | 50 | Commercial | \$165.50 | \$204.96 | 23.84% | \$233.18 | 13.77% | \$265.30 | 13.77% | \$291.25 | 9.78% | \$316.84 | 8.79% | |
| 1 1/2 | 100 | Commercial | \$331.00 | \$368.69 | 11.39% | \$419.83 | 13.87% | \$478.08 | 13.87% | \$525.31 | 9.88% | \$571.96 | 8.88% | |
| 1 1/2 | 250 | Commercial | \$827.50 | \$859.87 | 3.91% | \$979.78 | 13.95% | \$1,116.42 | 13.95% | \$1,227.49 | 9.95% | \$1,337.34 | 8.95% | |
| 5/8 | 60 | Industrial | \$198.60 | \$204.72 | 3.08% | \$233.29 | 13.95% | \$265.84 | 13.95% | \$292.31 | 9.96% | \$318.49 | 8.96% | |
| 2 | 120 | Industrial | \$397.20 | \$458.91 | 15.54% | \$522.41 | 13.84% | \$594.70 | 13.84% | \$653.25 | 9.84% | \$711.04 | 8.85% | |
| 2 | 200 | Industrial | \$662.00 | \$720.88 | 8.89% | \$821.05 | 13.90% | \$935.15 | 13.90% | \$1,027.74 | 9.90% | \$1,119.24 | 8.90% | |
| 2 | 400 | Industrial | \$1,324.00 | \$1,375.79 | 3.91% | \$1,567.65 | 13.95% | \$1,786.28 | 13.95% | \$1,963.98 | 9.95% | \$2,139.74 | 8.95% | |

| | | | | Alternative D | | | | | | | | | | | | |
|------------|--------------------------------|----------------|--------------|---------------|--------------|---|----------|--------------|---|----------|--------------|----|----------|--------------|----------------|--------------|
| Meter Size | Water Consumption (in CCFs) | Customer Class | Current Bill | 2011 | % Difference | | 2012 | % Difference | | 2013 | % Difference | | 2014 | % Difference | 2015 | % Difference |
| 5/8 | 1 | Residential | \$6.62 | \$11.11 | 67.83% | S | 12.57 | 13.15% | S | 14.23 | 13.16% | \$ | 15.53 | 9.19% | \$ 16.81 | 8.20% |
| 5/8 | 10 | Residential | \$33.10 | \$36.89 | 11.45% | S | 41.96 | 13.75% | S | 47.73 | 13.75% | \$ | 52.39 | 9.76% | \$ 56.98 | 8.76% |
| 5/8 | 15 | Residential | \$49.65 | \$51.21 | 3.14% | S | 58.29 | 13.82% | S | 66.34 | 13.82% | \$ | 72.86 | 9.83% | \$ 79.29 | 8.83% |
| 5/8 | 40 | Residential | \$132.40 | \$147.88 | 11.69% | S | 168.49 | 13.94% | S | 191.98 | 13.94% | \$ | 211.06 | 9.94% | \$ 229.93 | 8.94% |
| 5/8 | 5 | Commercial | \$16.55 | \$22.57 | 36.36% | S | 25.63 | 13.58% | S | 29.12 | 13.59% | \$ | 31.91 | 9.60% | \$ 34.66 | 8.61% |
| 1 1/2 | 50 | Commercial | \$165.50 | \$184.45 | 11.45% | S | 209.80 | 13.75% | S | 238.64 | 13.75% | \$ | 261.93 | 9.76% | \$ 284.88 | 8.76% |
| 1 1/2 | 100 | Commercial | \$331.00 | \$327.66 | -1.01% | S | 373.07 | 13.86% | S | 424.77 | 13.86% | \$ | 466.66 | 9.86% | \$ 508.04 | 8.87% |
| 1 1/2 | 250 | Commercial | \$827.50 | \$900.53 | 8.83% | S | 1,026.14 | 13.95% | S | 1,169.27 | 13.95% | \$ | 1,285.62 | 9.95% | \$ 1,400.70 | 8.95% |
| 5/8 | 60 | Industrial | \$198.60 | \$180.11 | -9.31% | S | 205.23 | 13.95% | S | 233.85 | 13.95% | \$ | 257.12 | 9.95% | \$ 280.14 | 8.95% |
| 2 | 120 | Industrial | \$397.20 | \$409.69 | 3.14% | S | 466.29 | 13.82% | S | 530.72 | 13.82% | \$ | 582.87 | 9.83% | \$ 634.33 | 8.83% |
| 2 | 200 | Industrial | \$662.00 | \$688.96 | 4.07% | S | 784.66 | 13.89% | S | 893.67 | 13.89% | \$ | 982.11 | 9.90% | \$ 1,069.50 | 8.90% |
| 2 | 400 | Industrial | \$1,324.00 | \$1,505.30 | 13.69% | S | 1,715.29 | 13.95% | S | 1,954.58 | 13.95% | \$ | 2,149.12 | 9.95% | \$ 2,341.54 | 8.95% |

Village of Downers Grove Water Rate Study

SCHEDULE 16B - OUTSIDE VILLAGE SAMPLE BILI

| GE SAMPLE BILLS | | | | | | | | | | | Wa |
|---|------------|------------|--------|-------------|------|--------------|------|----------|----|-------|-------------|
| | | nt Rates | | 2011 | | 2012 | | 2013 | | 2014 | 2015 |
| A | lternative | A - Curre | ent R | ate Structu | re | | | | | | |
| Outside Village - Unit Rate per CCF (Min 2 CCFs) | \$ | 3.85 | s | 4.42 | s | 5.03 | \$ | 5.74 | s | 6.31 | \$ 6.88 |
| Alternative B - Fixed C | harge Ba | sed on Me | ter S | ize with Ur | it R | ate Volume | Ch | arge | | | |
| Outside Village - Bi-Monthly Fixed Charge | | | \$ | 8.25 | \$ | 9.31 | \$ | 10.50 | s | 11.44 | \$ 12.34 |
| Outside Village - Unit Rate per CCF (No Minimum) | | | \$ | 3.81 | \$ | 4.34 | \$ | 4.95 | \$ | 5.44 | \$ 5.93 |
| Alternative C - Fixed Cha | rge Based | on Meter | Size | with Resid | enti | al Inclining | Blo | ck Rate | | | |
| Outside Village - Bi-Monthly Fixed Charge | | | s | 8.25 | s | 9.31 | \$ | 10.50 | s | 11.44 | \$ 12.34 |
| Outside Village - Residential Inclining Block Rate | | | | | | | | | | | |
| Level 1: 0 - 15 CCFs per CCF | | | S | 3.52 | \$ | 4.01 | | 4.57 | | 5.03 | 5.48 |
| Level 2: 15 - 30 CCFs per CCF | | | \$ | 4.40 | \$ | 5.01 | | 5.71 | | 6.28 | 6.85 |
| Level 3: Over 30 CCFs per CCF | | | \$ | 5.28 | \$ | 6.01 | | 6.86 | | 7.54 | \$ 8.22 |
| Outside Village - Non-Residential Unit Rate per CCF | | | \$ | 3.81 | \$ | 4.34 | | 4.95 | | 5.44 | \$ 5.93 |
| Alternative D - Fixed Charg | e Based o | n Meter Si | ize wi | ith Multipl | e Cl | ass Inclinin | g Bl | lock Rat | es | | |
| Outside Village - Bi-Monthly Fixed Charge | | | \$ | 8.25 | \$ | 9.31 | \$ | 10.50 | \$ | 11.44 | \$ 12.34 |
| Outside Village - Residential Inclining Block Rate | | | | | | | | | | | |
| Level 1: 0 - 15 CCFs per CCF | | | | \$3.41 | \$ | 3.89 | \$ | 4.43 | \$ | 4.87 | \$ 5.31 |
| Level 2: 15 - 30 CCFs per CCF | | | | \$4.26 | \$ | 4.86 | \$ | 5.54 | \$ | 6.09 | \$ 6.64 |
| Level 3: Over 30 CCFs per CCF | | | | \$5.11 | \$ | 5.83 | \$ | 6.65 | \$ | 7.31 | \$ 7.97 |
| Commercial Unit Rate per CCF | | | | | | | | | | | |
| Level 1: 0 - 100 CCFs per CCF | | | \$ | 3.41 | \$ | 3.89 | \$ | 4.43 | \$ | 4.87 | \$ 5.31 |
| Level 2: 100 - 200 CCFs per CCF | | | \$ | 4.26 | \$ | 4.86 | \$ | 5.54 | \$ | 6.09 | \$ 6.64 |
| Level 3: Over 200 CCFs per CCF | | | S | 5.11 | S | 5.83 | \$ | 6.65 | S | 7.31 | \$ 7.97 |

| Meter Size | Equivalent | |
|------------|------------|----------|
| 5/8 | 1.00 | \$8.25 |
| 1 | 1.50 | \$12.37 |
| 1 1/2 | 5.00 | \$41.23 |
| 2 | 8.00 | \$65.97 |
| 3 | 15.00 | \$123.69 |
| 4 | 25.00 | \$206.15 |
| 6 | 50.00 | \$412.29 |
| 10 | 120.00 | 6060 20 |

| | | | | | | | | Alterna | ative A | | | | |
|------------------------|--------------------------------|--------------------------|------------------------|------------------------|----------------|------------------------|--------------|--------------------------|------------------|--------------------------|----------------|--------------------------|----------------|
| Meter Size | Water Consumption (in CCFs) | Customer Class | Current Bill | 2011 | % Difference | 2012 | % Difference | 2013 | % Difference | 2014 | % Difference | 2015 | % Difference |
| 5/8 | 1 | Residential | \$7.70 | \$8.83 | 14.70% | \$ 10.07 | 14.00% | \$ 11.48 | 14.00% | \$ 12.63 | 10.00% | \$ 13.76 | 9.00% |
| 5/8 | 15 | Residential | \$57.75 | \$66.24 | 14.70% | \$ 75.51 | 14.00% | \$ 86.08 | 14.00% | \$ 94.69 | 10.00% | \$ 103.22 | 9.00% |
| 5/8 | 20 | Residential | \$77.00 | \$88.32 | 14.70% | \$ 100.68 | 14.00% | \$ 114.78 | 14.00% | \$ 126.26 | 10.00% | \$ 137.62 | 9.00% |
| 5/8 | 25 | Residential | \$96.25 | \$110.40 | 14.70% | \$ 125.85 | 14.00% | \$ 143.47 | 14.00% | \$ 157.82 | 10.00% | \$ 172.03 | 9.00% |
| 5/8 | 5 | Commercial | \$19.25 | \$22.08 | 14.70% | \$ 25.17 | 14.00% | \$ 28.69 | 14.00% | \$ 31.56 | 10.00% | \$ 34.41 | 9.00% |
| 1 1/2 | 50 | Commercial | \$192.50 | \$220.80 | 14.70% | \$ 251.71 | 14.00% | \$ 286.95 | 14.00% | \$ 315.64 | 10.00% | \$ 344.05 | 9.00% |
| 2 | 100 | Commercial | \$385.00 | \$441.60 | 14.70% | \$ 503.42 | 14.00% | \$ 573.90 | 14.00% | \$ 631.29 | 10.00% | \$ 688.10 | 9.00% |
| 3 | 150 | Commercial | \$577.50 | \$662.39 | 14.70% | \$ 755.13 | 14.00% | \$ 860.85 | 14.00% | \$ 946.93 | 10.00% | \$1,032.15 | 9.00% |
| 5/8 | 60 | Industrial | \$231.00 | \$264.96 | 14.70% | \$ 302.05 | 14.00% | \$ 344.34 | 14.00% | \$ 378.77 | 10.00% | \$ 412.86 | 9.00% |
| 1 1/2 | 120 | Industrial | \$462.00 | \$529.91 | 14.70% | \$ 604.10 | 14.00% | \$ 688.68 | 14.00% | \$ 757.54 | 10.00% | \$ 825.72 | 9.00% |
| 2 | 200 | Industrial | \$770.00 | \$883.19 | 14.70% | \$1,006.84 | 14.00% | \$1,147.79 | 14.00% | \$ 1,262.57 | 10.00% | \$1,376.20 | 9.00% |
| 3 | 350 | Industrial | \$1,347.50 | \$1,545.58 | 14.70% | \$1,761.96 | 14.00% | \$2,008.64 | 14.00% | \$ 2,209.50 | 10.00% | \$2,408.36 | 9.00% |
| | | | | | | | | Alterna | ative R | | | | |
| | Water Consumption (in | | Current Bill | | | | | | | | | | |
| | CCFs) | Customer Class | | 2011 | % Difference | 2012 | % Difference | 2013 | % Difference | 2014 | % Difference | 2015 | % Difference |
| 5/8 | 1 | Residential | \$7.70 | \$12.05 | 56.53% | \$13.65 | 13.22% | \$15.45 | 13.22% | \$16.88 | 9.25% | \$18.28 | |
| 5/8 | 12 | Residential | \$46.20 | \$53.93 | 16.74% | \$61.39 | | \$69.88 | 13.83% | \$76.75 | 9.83% | \$83.53 | 8.84% |
| 5/8 | 20 | Residential | \$77.00 | \$84.39 | 9.60% | \$96.11 | 13.89% | \$109.46 | 13.89% | \$120.29 | 9.89% | \$130.99 | 8.90% |
| 5/8 | 25 | Residential | \$96.25 | \$103.43 | 7.46% | \$117.81 | 13.91% | \$134.20 | 13.91% | \$147.50 | 9.91% | \$160.66 | |
| 5/8 | 5 | Commercial | \$19.25 | \$27.28 | 41.72% | \$31.01 | 13.66% | \$35.24 | 13.66% | \$38.65 | 9.67% | \$42.01 | 8.68% |
| 1 1/2 | 50 | Commercial | \$192.50 | \$231.59 | 20.31% | \$263.54 | | \$299.91 | 13.80% | \$329.32 | 9.81% | \$358.34 | 8.81% |
| 2 | 100 | Commercial | \$385.00 | \$446.69 | 16.02% | \$508.48 | | \$578.81 | 13.83% | \$635.77 | 9.84% | \$691.99 | 8.84% |
| 3 | 150 | Commercial | \$577.50 | \$694.77 | 20.31% | \$790.63 | | \$899.73 | 13.80% | \$987.97 | 9.81% | \$1,075.02 | |
| 5/8 | 60 | Commercial | \$231.00 | \$236.68 | 2.46% | \$269.72 | | \$307.38 | 13.96% | \$338.00 | 9.96% | \$368.29 | |
| 1 1/2 | 120 | Commercial | \$462.00 | \$498.10 | 7.81% | \$567.36 | | \$646.26 | 13.91% | \$710.31 | 9.91% | \$773.61 | 8.91% |
| 2 | 200 | Commercial | \$770.00 | \$827.41 | 7.46% | \$942.50 | | \$1,073.60 | 13.91% | \$1,180.04 | 9.91% | \$1,285.24 | 8.92% |
| 3 | 350 | Commercial | \$1,347.50 | \$1,456.22 | 8.07% | \$1,658.68 | 13.90% | \$1,889.31 | 13.90% | \$2,076.50 | 9.91% | \$2,261.52 | 8.91% |
| | | | | | | | | Alterna | ative C | | | | |
| , | Water Consumption (in | | Current Bill | **** | 0.000 | | 0.1 70.100 | | | **** | 0.1 70.1 00 | | 0.1 70.100 |
| | CCFs) | Customer Class | | 2011 | % Difference | 2012 | % Difference | 2013 | % Difference | 2014 | % Difference | 2015 | % Difference |
| 5/8 | 1 | Residential | \$7.70 | \$11.76 | 52.76% | \$13.32 | 13.20% | \$15.07 | 13.20% | \$16.47 | 9.23% | \$17.82 | 8.24% |
| 5/8 | 12 | Residential | \$46.20 | \$50.45 | 9.20% | \$57.42 | | \$65.35 | 13.82% | \$71.77 | 9.82% | \$78.11 | 8.83% |
| 5/8 | 20 | Residential | \$77.00 | \$82.98 | 7.77% | \$94.51 | 13.89% | \$107.63 | 13.89% | \$118.28 | 9.89% | \$128.80 | |
| 5/8 | 25 | Residential | \$96.25 | \$104.96 | 9.05% | \$119.56 | | \$136.20 | 13.91% | \$149.70 | 9.92% | \$163.05 | |
| 5/8 | 5 | Commercial | \$19.25 | \$27.28 | 41.72% | \$31.01 | 13.66% | \$35.24 | 13.66% | \$38.65 | 9.67% | \$42.01 | 8.68% |
| 1 1/2 | 50 | Commercial | \$192.50 | \$231.59 | 20.31% | \$263.54 | | \$299.91 | 13.80% | \$329.32 | 9.81% | \$358.34 | 8.81% |
| 2 | 100 | Commercial | \$385.00 | \$446.69 | 16.02% | \$508.48 | | \$578.81 | 13.83% | \$635.77 | 9.84% | \$691.99 | |
| 3 | 150 | Commercial | \$577.50 | \$694.77 | 20.31% | \$790.63 | | \$899.73 | 13.80% | \$987.97 | 9.81% | \$1,075.02 | |
| 5/8 | 60 | Commercial | \$231.00 | \$236.68 | 2.46% | \$269.72 | | \$307.38 | 13.96% | \$338.00 | 9.96% | \$368.29 | |
| 1 1/2 | 120 | Commercial | \$462.00 | \$498.10 | 7.81% | \$567.36 | | \$646.26 | 13.91% | \$710.31 | 9.91% | \$773.61 | 8.91% |
| 2 | 200 350 | Commercial Commercial | \$770.00 \$1,347.50 | \$827.41 \$1,456.22 | 7.46% 8.07% | \$942.50 \$1,658.68 | | \$1,073.60 \$1,889.31 | 13.91% 13.90% | \$1,180.04 \$2,076.50 | 9.91% 9.91% | \$1,285.24 \$2,261.52 | 8.92% 8.91% |
| 3 | 330 | Commercial | \$1,347.50 | \$1,456.22 | 8.07% | \$1,658.68 | 13.90% | \$1,889.31 | 13.90% | \$2,076.50 | 9.91% | \$2,261.52 | 8.91% |
| | | | | | | | | Alterna | ative D | | | | |
| , | Water Consumption (in | | Current Bill | | | | | | | | | | |
| | CCFs) | Customer Class | | 2011 | % Difference | 2012 | % Difference | 2013 | % Difference | | % Difference | 2015 | % Difference |
| 5/8 | 1 | Residential | \$7.70 | \$11.65 | 51.36% | \$ 13.19 | 13.19% | \$ 14.93 | 13.20% | \$ 16.31 | 9.23% | \$ 17.65 | 8.24% |
| 5/8 | 12 | Residential | \$46.20 | \$49.15 | 6.39% | \$ 55.94 | 13.81% | \$ 63.67 | 13.81% | \$ 69.92 | 9.82% | \$ 76.09 | 8.82% |
| 5/8 | 20 | Residential | \$77.00 | \$80.69 | 4.79% | \$ 91.89 | 13.88% | \$ 104.65 | 13.88% | \$ 115.00 | 9.89% | \$ 125.22 | 8.89% |
| 5/8 | 25 | Residential | \$96.25 | \$101.99 | 5.97% | \$ 116.18 | 13.91% | \$ 132.34 | 13.91% | \$ 145.45 | 9.91% | \$ 158.42 | 8.91% |
| 5/8 | 5 | Commercial | \$19.25 | \$25.29 | 31.38% | \$ 28.74 | 13.63% | \$ 32.65 | 13.63% | \$ 35.80 | 9.65% | \$ 38.90 | 8.65% |
| | 50 | Commercial | \$192.50 | \$211.68 | 9.96% | \$ 240.84 | 13.78% | \$ 274.03 | 13.78% | \$ 300.86 | 9.79% | \$ 327.31 | 8.79% |
| 1 1/2 | 100 | Commercial | \$385.00 | \$406.86 | 5.68% | \$ 463.07 | 13.82% | \$ 527.05 | 13.82% | \$ 578.84 | 9.82% | \$ 629.93 | 8.83% |
| 2 | | | \$577.50 | \$677.65 | 17.34% | \$ 771.11 | 13.79% | \$ 877.47 | 13.79% | \$ 963.48 | 9.80% | \$1,048.33 | 8.81% |
| 2 3 | 150 | Commercial | | | | | | | | | | | |
| 2 3 5/8 | 150 60 | Commercial | \$231.00 | \$212.78 | -7.89% | \$ 242.48 | 13.96% | \$ 276.32 | 13.96% | \$ 303.84 | 9.96% | \$ 331.06 | 8.96% |
| 2 3 5/8 1 1/2 | 150 60 120 | Commercial Commercial | \$231.00 \$462.00 | \$467.35 | 1.16% | \$ 532.31 | 13.90% | \$ 606.30 | 13.90% | \$ 666.36 | 9.90% | \$ 725.70 | 8.91% |
| 2 3 5/8 | 150 60 | Commercial | \$231.00 | | | | | | | | | | |

SCHEDULE 17 - CAPACITY FEE

| Average Day System Capacity | | |
|---|--------------------------|-----|
| IDNR Water Allocation | 6.589 | MGD |
| Five Year Average System Daily Usage | 5.261 | MGD |
| Percentage of Average Daily Capacity Utilized | 79.8% | |
| Equivalent Dwelling Unit Analysis Current Number of EDUs in System Percentage of Average Daily Capacity Utilized Remaining EDUs Available | 22,738 79.8% 5,740 | |
| Total EDU's at Full Capacity Utilization | 28,478 | |

System Buy-In Method

| bystem buy in Freehou | | | | | | | | | | |
|--|-------|-----------|------------|-----------|-------------|--------------|----------------|----------------|--------------|---------------|
| Replacement Cost New Less Depreciation (RCNLD) | \$ 58 | 3,769,658 | | | AWWA Demand | Calculated | Current Demand | Current | Current | Total Current |
| | | | Meter Size | Line Size | Factors | Capacity Fee | Factors | Connection Fee | Capacity Fee | Capacity |
| Cost per EDU | \$ | 2,064 | 5/8" | 1" | 1 | \$2,100 | 1 | \$1,900 | \$600 | \$2,500 |
| | | | 3/4" | 1 1/4" | 1.1 | \$2,300 | | | \$600 | |
| | | | 1" | 1 1/2" | 2.5 | \$5,200 | 1.2 | \$2,200 | \$600 | \$2,800 |
| | | | 1 1/2" | 2" | 5.0 | \$10,300 | 1.3 | \$2,400 | \$600 | \$3,000 |
| | | | 2" | 4" | 8.0 | \$16,500 | 1.5 | \$2,900 | \$600 | \$3,500 |
| | | | 3" | 6" | 15.0 | \$31,000 | 3.4 | \$6,500 | \$600 | \$7,100 |
| | | | 4" | 8" | 25.0 | \$51,600 | 6.2 | \$11,800 | \$600 | \$12,400 |
| | | | 6" | 10" | 50.0 | \$103,200 | 9.6 | \$18,300 | \$600 | \$18,900 |
| | | | 8" | 12" | 120.0 | \$247,600 | 13.8 | \$26,300 | \$600 | \$26,900 |
| 1 | | | | | | | | | | |

SCHEDULE 18 - CAPITAL FEES

| _ | Current | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Tap Fees | | | | | | | | | | | |
| 1" | \$200 | \$230 | \$240 | \$250 | \$260 | \$270 | \$280 | \$290 | \$300 | \$310 | \$320 |
| 1 1/2" | \$250 | \$370 | \$380 | \$390 | \$400 | \$410 | \$420 | \$430 | \$440 | \$450 | \$460 |
| 2" | \$325 | \$425 | \$440 | \$450 | \$460 | \$470 | \$480 | \$490 | \$500 | \$520 | \$540 |
| Over 2" | \$400 | \$590 | \$610 | \$630 | \$650 | \$670 | \$690 | \$710 | \$730 | \$750 | \$770 |
| Meter Fees | | | | | | | | | | | |
| 5/8" to 3/4" | \$250 | \$260 | \$270 | \$280 | \$290 | \$300 | \$310 | \$320 | \$330 | \$340 | \$350 |
| 1" | \$325 | \$370 | \$380 | \$390 | \$400 | \$410 | \$420 | \$430 | \$440 | \$450 | \$460 |
| 1 1/2" | \$400 | \$1,500 | \$1,550 | \$1,600 | \$1,650 | \$1,700 | \$1,750 | \$1,800 | \$1,850 | \$1,910 | \$1,970 |
| 2" | \$500 | \$1,780 | \$1,830 | \$1,880 | \$1,940 | \$2,000 | \$2,060 | \$2,120 | \$2,180 | \$2,250 | \$2,320 |
| 3" | \$0 | \$2,940 | \$3,030 | \$3,120 | \$3,210 | \$3,310 | \$3,410 | \$3,510 | \$3,620 | \$3,730 | \$3,840 |
| 4" | \$0 | \$3,900 | \$4,020 | \$4,140 | \$4,260 | \$4,390 | \$4,520 | \$4,660 | \$4,800 | \$4,940 | \$5,090 |
| 6" | \$0 | \$6,240 | \$6,430 | \$6,620 | \$6,820 | \$7,020 | \$7,230 | \$7,450 | \$7,670 | \$7,900 | \$8,140 |
| Capacity Fees | | | | | | | | | | | |
| 1" | \$1,900 | \$2,100 | \$2,100 | \$2,100 | \$2,100 | \$2,100 | \$2,100 | \$2,100 | \$2,100 | \$2,100 | \$2,100 |
| 1 1/4" | \$0 | \$2,300 | \$2,300 | \$2,300 | \$2,300 | \$2,300 | \$2,300 | \$2,300 | \$2,300 | \$2,300 | \$2,300 |
| 1 1/2" | \$2,200 | \$5,200 | \$5,200 | \$5,200 | \$5,200 | \$5,200 | \$5,200 | \$5,200 | \$5,200 | \$5,200 | \$5,200 |
| 2" | \$2,400 | \$10,300 | \$10,300 | \$10,300 | \$10,300 | \$10,300 | \$10,300 | \$10,300 | \$10,300 | \$10,300 | \$10,300 |
| 4" | \$2,900 | \$16,500 | \$16,500 | \$16,500 | \$16,500 | \$16,500 | \$16,500 | \$16,500 | \$16,500 | \$16,500 | \$16,500 |
| 6" | \$6,500 | \$31,000 | \$31,000 | \$31,000 | \$31,000 | \$31,000 | \$31,000 | \$31,000 | \$31,000 | \$31,000 | \$31,000 |
| 8" | \$11,800 | \$51,600 | \$51,600 | \$51,600 | \$51,600 | \$51,600 | \$51,600 | \$51,600 | \$51,600 | \$51,600 | \$51,600 |
| 10" | \$18,300 | \$103,200 | \$103,200 | \$103,200 | \$103,200 | \$103,200 | \$103,200 | \$103,200 | \$103,200 | \$103,200 | \$103,200 |
| 12" | \$26,300 | \$247,600 | \$247,600 | \$247,600 | \$247,600 | \$247,600 | \$247,600 | \$247,600 | \$247,600 | \$247,600 | \$247,600 |

SCHEDULE 19 - OPERATING CASH FLOW

| | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---|----|----------------|--------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|-------------|
| Revenue | · | | | | | | | | | | | |
| User Fee Revenue | \$ | 7,560,051 \$ | 8,687,153 \$ | 9,804,321 \$ | 11,065,157 \$ | 12,049,956 \$ | 13,003,107 \$ | 14,160,384 \$ | 15,420,658 \$ | 16,793,097 \$ | 18,287,682 \$ | 19,915,286 |
| Revenues Collected - Westmont & Knottingham | | \$ | 84,417 \$ | 86,949 \$ | 89,558 \$ | 92,244 \$ | 95,012 \$ | 97,862 \$ | 100,798 \$ | 103,822 \$ | 106,936 \$ | 110,145 |
| Miscellaneous Revenue | \$ | 339,836 \$ | 339,416 \$ | 345,098 \$ | 350,951 \$ | 356,980 \$ | 363,189 \$ | 369,585 \$ | 376,173 \$ | 382,958 \$ | 389,947 \$ | 397,145 |
| Revenues from Unmetered Water Sales | \$ | 5,000 \$ | 5,000 \$ | 5,000 \$ | 5,000 \$ | 5,000 \$ | 5,000 \$ | 5,000 \$ | 5,000 \$ | 5,000 \$ | 5,000 \$ | 5,000 |
| Use of Available Fund Balance | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Total Operating Revenue | \$ | 7,904,887 \$ | 9,115,986 \$ | 10,241,369 \$ | 11,510,666 \$ | 12,504,180 \$ | 13,466,308 \$ | 14,632,831 \$ | 15,902,629 \$ | 17,284,876 \$ | 18,789,565 \$ | 20,427,576 |
| | | | | | | | | | | | | <u> </u> |
| Operating and Capital Expenses | | | | | | | | | | | | |
| Total Operating Expenses | \$ | 7,867,340 \$ | 8,180,707 \$ | 8,764,289 \$ | 9,394,053 \$ | 10,040,085 \$ | 10,741,918 \$ | 11,504,870 \$ | 12,334,780 \$ | 13,238,063 \$ | 14,221,769 \$ | 15,293,642 |
| Operating Reserve | \$ | - \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 \$ | 100,000 |
| Existing Debt Service | \$ | 503,708 \$ | 503,003 \$ | 496,155 \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - \$ | - |
| Cash Funded Capital Projects | \$ | 1,113,093 \$ | 285,000 \$ | 967,500 \$ | 660,000 \$ | 600,000 \$ | 500,000 \$ | - \$ | - \$ | - \$ | - \$ | - |
| Projected Debt Service | \$ | - \$ | - \$ | - \$ | 875,343 \$ | 875,343 \$ | 875,343 \$ | 1,404,744 \$ | 1,404,744 \$ | 1,404,744 \$ | 1,404,744 \$ | 1,404,744 |
| 3R Reserve | \$ | - \$ | 489,223 \$ | 333,867 \$ | 547,201 \$ | 547,201 \$ | 659,927 \$ | 3,702,690 \$ | 4,667,218 \$ | 4,829,508 \$ | 4,875,702 \$ | 4,923,282 |
| | | | | | | | | | | | | |
| Total Expenses | \$ | 9,484,141 \$ | 9,557,933 \$ | 10,661,811 \$ | 11,576,597 \$ | 12,162,629 \$ | 12,877,189 \$ | 16,712,304 \$ | 18,506,742 \$ | 19,572,315 \$ | 20,602,215 \$ | 21,721,668 |
| | | | | | | | | | | | | |
| Net Surplus (Deficit) | \$ | (1,579,254) \$ | (441,947) \$ | (420,442) \$ | (65,931) \$ | 341,551 \$ | 589,120 \$ | (2,079,473) \$ | (2,604,113) \$ | (2,287,439) \$ | (1,812,649) \$ | (1,294,092) |

Village of Downers Grove Water Rate Study

SCHEDULE 20 - CASH BALANCE

| SCHEDULE 20 - CASH BALANCE | | | | | | | | | | | | |
|--|--------------------|---------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|
| | End 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| "3R" Investments | | | | | | | | | | | | |
| Begin FY Cash "3R" Cash Reserves | \$0 | \$0 | \$0 | \$94,259 | \$94,260 | \$94,260 | \$641,461 | \$1,301,387 | \$5,004,078 | \$9,671,296 | \$14,500,804 | \$19,376,506 |
| Annual Contribution | | \$0 | \$489,223 | \$333,867 | \$547,201 | \$547,201 | \$659,927 | \$3,702,690 | \$4,667,218 | \$4,829,508 | \$4,875,702 | \$4,923,282 |
| Operating (Checking Account) | | | | | | | | | | | | |
| Begin FY Operating Cash Balance (Checking Account) | \$2,312,236 | \$2,312,236 | \$732,982 | \$685,998 | \$599,423 | \$1,080,692 | \$1,422,244 | \$2,011,363 | (\$68,110) | (\$2,672,223) | (\$4,959,661) | (\$6,772,311) |
| Annual Operating Surplus (Shortfall) | | (\$1,579,254) | (\$441,947) | (\$420,442) | (\$65,931) | \$341,551 | \$589,120 | (\$2,079,473) | (\$2,604,113) | (\$2,287,439) | (\$1,812,649) | (\$1,294,092) |
| Transfer from Available "3R" Cash Reserves | | | \$394,964 | \$333,867 | \$547,201 | | | | | | | |
| Transfer from O&M Reserve Cash Reserves | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Total Available Cash Balance - Begin FY | | \$2,312,236 | \$732,982 | \$780,258 | \$693,683 | \$1,174,952 | \$2,063,704 | \$3,312,751 | \$4,935,968 | \$6,999,073 | \$9,541,143 | \$12,604,196 |
| Total Available Cash Balance - End FY | \$2,312,236 | \$732,982 | \$780,258 | \$693,683 | \$1,174,952 | \$2,063,704 | \$3,312,751 | \$4,935,968 | \$6,999,073 | \$9,541,143 | \$12,604,196 | \$16,233,386 |