

**OPERATIONS DIVISION – WATER FUND**  
**BUDGET FOOTNOTES**

1. **Salaries - FT: (\$394,000)** Provides for one-half (50%) of the salaries of the Project Coordinator, Senior Plant Operator, and Customer Service Worker. Also provides for a percentage (30%) of the sixteen members of our Operations Division that will be funded through the Operations – Water Fund budget.
2. **Salaries - PT: (\$33,000)** Provides for four part-time meter readers who read all 8,200 water meters in the Village each month and 30% of one part-time maintenance worker.
3. **Temporary Help: (\$18,300)** Provides for a percentage (30%) of eight summer seasonal (12 week) employees and two extended seasonal (25 week) employees that work for the Operations Division of Public Works. Seasonal employees work on all aspects of Operations including water distribution system maintenance activities.
4. **Bank Services: (\$14,000)** Costs associated with the utility bill lockbox processing and acceptance of credit cards as a form of payment at the Village Cashier's counter.
5. **Maintenance / Buildings & Grounds: (\$50,000)** Provides \$16,000 for annual landscape maintenance contract at the Cottage Avenue elevated tank site, Newton and Wilson Avenue pumping stations, and North and West Pressure Adjusting Stations. \$22,000 to fund the Cottage Avenue maintenance contract. Also provides \$12,000 for miscellaneous supplies and equipment to assure our water distribution facilities are maintained in a secure and proper working order.
6. **Maintenance / ROW: (\$38,500)** Provides for restoration of streets and parkways disturbed during water system repairs (concrete, asphalt, and landscaping material) including the water portion of the material hauling contract for spoil removal and stone delivery. As a result of excavations, Public Works hauls out approximately 1,200 cubic yards of spoil, and purchases 550 tons of gravel each year.
7. **Maintenance / Water Meters: (\$30,000)** Provides for water meters, copper horns, and radio reads for new residential and commercial accounts and miscellaneous repair parts as needed. Radio-read units are typically installed when a new meter is required. The cost associated with this upgrade is recovered in the meter fee portion of the building permit for the home or business.
8. **Maintenance / Hydrants: (\$30,000)** Provides \$10,000 to fund the purchase of parts and supplies to maintain and replace hydrants. Non-functioning hydrants are typically replaced instead of repaired because of obsolescence. On average, the Utilities Division replaces 8 hydrants per year (out of a total of some 1,230 hydrants) in addition to those replaced as part of our extensive Capital Improvements Program. Also funds the second year of a 5 year program (working north to south) to sand blast and repaint all Village hydrants; funding in the amount of \$20,000 is sufficient to recoat about 250 units.

9. **Maintenance / Other: (\$11,000)** Provides for all materials for water main and service line repairs. Examples include copper tubing, b-boxes, brass fittings, repair clamps, couplers and fittings.
10. **Professional Services / Other: (\$169,200)** – This item covers the cost of various types of services and studies provided by contractors and consultants including such typical and reoccurring expenditures as: \$10,000 for water leak location assistance connected with suspected water main breaks; \$10,000 for ongoing testing of large meters; \$5,000 for emergency water main break repairs; \$10,000 for concrete saw cutting; \$4,500 for editing and printing of the Illinois EPA mandated annual water quality Consumer Confidence Report; \$2,000 for root pruning prior to excavating to minimize damage to adjacent tree root structures; \$4,000 for traffic control device rental; \$6,500 for chemical water analyses; \$10,000 for bacterial water analyses; \$2,000 for training and implementation of CarteGraph WaterView (water asset management / preventative maintenance); \$8,000 for electrical maintenance; \$1,200 for maintenance to auxiliary electric generators, and \$8,000 for outsourcing the printing and distribution of more than 100,000 water bills annually. Proposed as one-time only expenses for this budget are: \$62,000 for a one-year program to GPS-locate and exercise all distribution valves in the system (numbering some 1,400), \$25,000 for an engineering study to determine the requirements and costs to expand the Newton Pumping Station building to accommodate the backup electric generator within an indoors facility and \$1000 associated with the start up of the Cross Connection Control Ordinance.
11. **Purchase of Water: (\$2,055,000)** The Village purchases its Lake Michigan water through the DuPage Water Commission. Water from the DWC is metered and billed to the Village monthly. The Water Commission sets the rates billed to its municipal customers annually and establishes a commodity or “O&M” rate based on the number of gallons purchased and also assesses a monthly “fixed cost” charge to pay for bonds issued to construct the DWC distribution system. The Village’s cost of purchasing water from the Commission is expected to increase \$2.08 to at least \$2.27 per 1,000 gallons depending on final DWC decisions regarding how quickly the Commission will phase in rate increases to make up for the pending loss of County-wide sales tax revenues in 2016. Village water usage is averaging about 2.5 million gallons per day (905 million gallons per year).
12. **Capital Projects: (FY10/11 Estimated Actual - \$1,788,000)** This line item contains capital improvement projects undertaken in the current fiscal year and continuing projects with significant payouts in this fiscal year.

Project Description	Estimated Cost
a. <b>Park / GE Place / Prairie Improvements (#00603)</b> – Water-related construction expenses associated with the 2009 project. The amount shown represents the maximum possible expenditure pending the results of an arbitration hearing; the likely final payment will be less.	<b>\$280,000</b>
b. <b>2009 Street Improvements (#00402)</b> – Final payments related to close-out of	<b>\$10,000</b>

the project completed in the fall of 2009.	
<b>c. Bryant / Thain's Addition Improvements (#00904)</b> – Estimated final construction phase costs to install new water main on Bryant, Duane and Whittier and other associated water system improvements on all project corridors.	<b>\$937,000</b>
<b>d. Riford Road Reconstruction (#00505)</b> – Planned water system improvements featured new water main on Riford between Oak and St. Charles.	<b>\$311,000</b>
<b>e. Cottage Water Tank Recoating</b> – In 2008, the Cottage tower was painted (interior and exterior) under a long-term maintenance services agreement with Utility Service Company entered into in April 2008. Costs shown include the third of three annual payments of \$68,000.	<b>\$68,000</b>
<b>f. Well No. 5 Rehabilitation</b> – The Village has two standby wells that both required significant rehabilitation in 2010. Well No. 5 is located at the Newton Station complex near the YMCA. Well failure due to submersible motor problems resulted in the pulling of the down-hole equipment and replacement of the motor and other well components.	<b>\$58,000</b>
<b>g. Well No. 6 Rehabilitation</b> – Continued water quality problems were experienced during the year due to bacterial contamination, apparently from surface waters near the well site at the Wilson complex near the Public Works Service Center. A two-fold approach was implemented consisting of the installation of a bladder/packer to isolate the lower section of the well for water quality and quantity testing. With successful packer testing, the second phase of the work would be to install a permanent upgraded liner system.	<b>\$85,000</b>
<b>h. Design Engineering</b> – Funding for water main design work for future projects:	
<b>1. Sunset / Turner Improvements (#00902)</b> – Design of water system improvements associated with roadway reconstruction by Kudrna.	<b>\$5,000</b>
<b>2. Essex Court / Grand / Lake Improvements (#00702)</b> – Design of new water mains on all project roadways by RHMG.	<b>\$7,000</b>
<b>3. Hill Avenue Water Main Extension (#00511)</b> – Deuchler is the project engineer for the project to extend utilities into the area north of Hill Avenue and east of Cumnor.	<b>\$27,000</b>
<b>Total for line item:</b>	<b>\$1,788,000</b>

**Capital Projects: (FY11/12 Budget - \$1,058,000)** This line item lists projects expected to start in FY11/12 along with the corresponding estimated costs.

Project Description	Estimated Cost
a. <b>Sunset / Turner Improvements (#00902)</b> – Associated with significant roadway upgrades, water main replacement is scheduled for Sunset between Fairview and Turner, as well as other service line upgrades project-wide. Costs shown include construction and field engineering.	<b>\$600,000</b>
b. <b>Essex Court / Grand / Lake Improvements (#00702)</b> – Construction and field engineering expenses for installation of new water mains in the project area.	<b>\$285,000</b>
c. <b>Newton Water Tank Recoating</b> – Since 2008, the Village has partnered with Utility Service Company in a long-term arrangement for maintenance of the Cottage Avenue elevated tank. A similar arrangement is proposed for the Newton elevated tank located near the YMCA. Under the terms of the agreement, USC would immediately improve the facility by repairing failed interior and exterior coatings and install a tank mixer to improve cold weather operations. Costs shown include the first of five higher annual payments designed to spread out the payments for the work performed immediately.	<b>\$128,000</b>
d. <b>Design Engineering</b> – Funding to accommodate design engineering for capital projects anticipated in the coming years. Please refer to the Capital Improvements footnotes section for more complete project descriptions.	
1. <b>Hawthorne Corridor Improvements</b> – Engineering for water system improvements at various locations.	<b>\$35,000</b>
2. <b>Park Boulevard Improvements</b> – Preliminary water system review and design associated with Phase I engineering.	<b>\$10,000</b>
<b>Total for line item:</b>	<b>\$1,058,000</b>

**13. Equipment: (FY10-11 Estimate - \$151,000):**

- ❑ \$142,000 for SCADA upgrade equipment received
- ❑ \$4,500 for structural engineering assistance for West PAS tower and foundation
- ❑ \$1,500 for new West PAS communications tower
- ❑ \$3,000 for miscellaneous equipment

**Equipment: (FY11-12 Budget - \$46,500):**

- ❑ \$1,000 toward purchase of cut-off saws to be used by Operations Personnel
- ❑ \$2,500 toward purchase of a trench box
- ❑ \$43,000 for upgrade of disinfection systems at all four pumping stations (NPAS, WPAS, Newton and Wilson) to inject chlorine into water provided by DWC or from emergency backup wells