



# GLENBARD WASTEWATER AUTHORITY CY2016 BUDGET

JANUARY 1 – DECEMBER 31  
2016

Erik Lanphier  
Executive Director  
January, 2016





# GLENBARD WASTEWATER AUTHORITY

21W551 Bemis Road – Glen Ellyn, Illinois 60137

Telephone: 630-790-1901 – Fax: 630-858-8119

November 9, 2015

President Alex Demos and  
Members of the Glenbard Wastewater Authority Board  
Glen Ellyn, Illinois 60137

Subject: January 1, 2016 - December 31, 2016 Glenbard Wastewater Authority  
Budget (CY2016)

I am pleased to present for your review and consideration the proposed Glenbard Wastewater Authority (Authority) CY2016 Budget. The Glenbard Team, with the help of the Village Managers, Public Works Directors, and Finance Directors developed the proposed budget that is being recommended for approval to the Glenbard Wastewater Authority Board. The proposed CY2016 partner allocation shows an overall increase of \$94,450 or 1.3% compared to the approved CY2015 budget. The budget reflects a substantial capital improvement plan with the completion of the Combined Heat and Power Project, the Facility Improvements Project bidding and construction which includes an improved Raw Pumping Station, new Disk Filtration as well as Non-Potable Water and Natural Gas Piping replacements. There are several moderate-sized projects listed within the Infrastructure Improvement portion of the budget as well. The Facility Improvements Project construction expenses are scheduled to be offset with a loan through the IEPA Clean Water Initiative supported by Governor Rauner. The proposed budget includes funding that will assure continued plant operation that exceeds regulatory standards resulting in improved water quality of the East Branch of the DuPage River.

## **BACKGROUND**

**REGIONALIZATION** -- The Illinois Pollution Control Board required regionalization of wastewater treatment facilities in 1974 by creating Facility Planning Areas (FPA). The Glenbard FPA, Region IV-B, originally contained 14,000 acres or 22 square miles and has been amended several times by Glen Ellyn and Lombard and now appears to contain approximately 14,157 acres or 22 ¼ square miles. Recommendations for FPA amendments are made to the Villages by the EOC and are usually done to add small adjacent areas. On occasion small adjacent areas are lost to other FPA's. As of December 2015 the Glenbard FPA contains a population equivalent (P.E.) of 103,858 which is an increase of 58 (P.E.) from April, 2014. The FPA is projected to contain a P.E. of 109,125 when

fully developed. Figure 1 shows the FPA map with the individual components of the Authority.

FACILITIES -- The Glenbard Wastewater Authority was created in 1977 by an intergovernmental agreement between the Village of Lombard and the Village of Glen Ellyn for the purpose of jointly constructing and operating advanced wastewater treatment facilities. The new facilities opened in 1982 and operate 24 hours per day 365 days per year.

The major components of the Authority, as depicted in Figure 1, are the 16.02 MGD (Million Gallons per Day) Glenbard Advanced Wastewater Treatment Facilities, the SRI Lift Station, the Sunnyside Lift Station, the 58.0 MGD Stormwater Plant, the Hill Avenue Lift Station, the North Regional Interceptor (NRI), the St. Charles Road Lift Station, the South Regional Interceptor (SRI), and the Valley View Lift Station,

The Glenbard Advanced Wastewater Treatment Facility is designed to provide Wastewater Treatment to an average flow of 16.02 MGD of domestic wastewater utilizing activated sludge with Pure Oxygen. The plant utilizes a Supervisory Control and Data Acquisition (SCADA) system which enables the plant to run unmanned during off hours.

The Glenbard Wastewater Authority Stormwater Plant is an excess flow treatment plant that accepts combined sanitary and storm sewer from the Village of Lombard.

In addition to receiving flow from Glen Ellyn and Lombard the Authority also treats flow from the Illinois-American Water Company, a private utility company in the Valley View/Butterfield area, and from DuPage County, in the Glen Ellyn Heights area.

COST -- The grant eligible planning, design and construction costs of the new facilities totaled \$42.6 million dollars in 1982. The individual components and costs are the Glenbard Advanced Treatment Facility at \$27.2 million dollars, the Glenbard Wastewater Authority Stormwater Plant at \$5.6 million dollars, the North Regional Interceptor (NRI) at \$7.2 million dollars, and the South Regional Interceptor (SRI) at \$2.6 million dollars. The design grant was applied for in 1974, and the construction grant was awarded in 1977. The United States Environmental Protection Agency (USEPA) contributed \$32.0 million dollars toward construction. Lombard and Glen Ellyn contributed \$10.6 million. Glen Ellyn, as lead agency, was the recipient of the USEPA funds and administered the federal grant application, processing, and close out. The USEPA grant was closed-out in January of 1990.

REGULATION -- The Glenbard Wastewater Treatment Plant treats approximately 3.5 - 5.5 billion gallons of wastewater (depending on the amount of rain) annually which is discharged to the East Branch of the DuPage River. The Illinois Environmental Protection Agency (IEPA), through a National Pollutant

Discharge Elimination System (NPDES) permit, regulates the discharge parameters.

### **AUTHORITY ORGANIZATION**

**AUTHORITY BOARD** - The Board of Trustees from the Villages of Lombard and Glen Ellyn govern the Authority. The primary tasks of the Authority Board are to approve an annual budget and audit. Other major responsibilities are to amend the 2014 Intergovernmental Agreement and pass other resolutions as needed. The Board generally meets once a year.

**EXECUTIVE OVERSIGHT COMMITTEE** - The Executive Oversight Committee (EOC) was formed in 1984. The EOC is currently composed of the Village Presidents of Lombard and Glen Ellyn, a Trustee from each Village who is appointed by the respective Village President, the Village Managers from Lombard and Glen Ellyn, and the Public Works Director from each village. The EOC meets once a month or when necessary and has the primary responsibilities to set the strategic vision, review and approve all borrowing, contracts and expenditures, recommend FPA amendments, review the audit, and recommend an annual budget.

**OPERATING "LEAD" AGENCY** - The Village of Glen Ellyn is the operating or "lead" agency for the Authority and provides overall supervision, accounting, personnel, and other management services on a contractual basis for the Authority.

**PERSONNEL** – The day-to-day operation of the facilities is overseen by the Authority's Executive Director who is appointed and approved by the Executive Oversight Committee. A preliminary budget allotment of 18.8 highly qualified individuals who are employed with the Authority. Seventeen (17) employees work full-time while another seven (7) work part-time. Eleven employees are certified by the Illinois Environmental Protection Agency in wastewater treatment operations, and seven (7) of those ten (10) employees hold Class I certificates, the highest certification possible within the State of Illinois.

### **BUDGET ORGANIZATION**

The Authority has adopted a calendar year budget to coincide with a January 1<sup>st</sup> to December 31<sup>st</sup> budget year consistent with the lead agency, the Village of Glen Ellyn. Most of the revenues for Authority operations are derived through monthly payments from the two Villages. Additional revenue is realized from connection fees collected on new structures built in the service area, landfill leachate treatment, cellular tower land lease agreements and interest income. There are two major funds: Operations and Maintenance (Fund 270) and the Capital Fund (Fund 40).



Div. 270 - Glenbard Plant (SRI Lift Station & Sunnyside Lift Station)  
includes:

- 270-1 – Glenbard Stormwater Plant (Hill Avenue Lift Station)
- 270-2 - North Regional Interceptor (St. Charles Lift Station)
- 270-3 – South Regional Interceptor (Valley View Lift Station)

The following is the fund allocation of the Capital fund:

Fund 40 - Equipment Replacement Fund

**OPERATION AND MAINTENANCE (O&M) DIVISION**

The O&M division records those transactions that are related to the daily operation and maintenance of the Authority. Operations are defined as the control of the treatment processes and equipment that make up the treatment works. This includes personnel management, equipment operation and monitoring, record keeping, laboratory, process control, solids handling, safety and emergency operation planning.

Maintenance is defined as the preservation of functional integrity of equipment and structures. This includes preventive, predictive, and corrective maintenance. The Operations and Maintenance Budget Revenue is allocated to Division 270 with Operations and Maintenance Budget Expenses tracked as follows:

	<b>Estimated CY2015</b>	<b>Proposed CY2016</b>
Division		
270 - Glenbard Plant	\$3,902,117	\$4,174,500
SRI L.S		
Sunnyside L.S		
270-1 - Stormwater Plant	107,750	
Hill Ave. L.S		
270-2 - N. Reg. Int.	19,000	
St. Charles Rd. L.S		
270-3 - S. Reg. Int.	11,200	
Valley View L.S		
	-----	-----
	\$4,040,067	\$4,174,500

## Cash Reserves / Working Cash

### FY 2015

Cash Reserves at January 1, 2015	1,220,266
FY15 Projected Surplus/(Deficit)	142,480
Projected Cash Reserves at December 31, 2015	1,362,746
Less: Estimated Encumbrances at December 31, 2015	-
Projected Working Cash at December 31, 2015	1,362,746
Less: FY2015 Required Minimum Working Cash	(1,036,663) *
<b>Projected Working Cash Surplus at December 31, 2015</b>	<b>326,083</b>

## Cash Reserves / Working Cash

### FY 2016

Projected Cash Reserves at December 31, 2015	1,362,746
FY2016 Projected Surplus/(Deficit)	-
Projected Cash Reserves at December 31, 2016	1,362,746
Less: Estimated Encumbrances at December 31, 2016	-
Projected Working Cash at December 31, 2016	1,362,746
Less: FY2016 Required Minimum Working Cash	(1,044,550) **
<b>Projected Working Cash Surplus at December 31, 2016</b>	<b>318,196</b>

\* 25% of FY2015 Operating Expenses of \$4,146,650

\*\* 25% of FY2016 Operating Expenses of \$4,178,200

The six most significant cost centers in the proposed CY2016 O&M budget are as follows:

1. **Personnel:** The CY2016 proposed GWA team level is at 18.8 full time equivalents (FTE). Personnel costs for the past nineteen years of full time equivalent staff are shown below. SY14 figures indicate expenses for only 8 months due to transitioning to a calendar year in



2015. The figures are indicative of the efficiencies realized through the elimination of multiple shifts, automation and monitoring, and other optimization measures:

	<u>Budget</u>	<u>Actual</u>	<u>FTE</u>
FY97	\$1,587,600	\$1,493,096	31.5
FY98	\$1,433,080	\$1,212,197	27.5
FY99	\$1,286,970	\$ 981,950	25.0
FY00	\$1,074,863	\$ 837,826	20.0
FY01	\$ 897,041	\$ 720,472	18.3
FY02	\$ 882,500	\$ 806,680	17.9
FY03	\$ 936,000	\$ 919,780	17.0
FY04	\$ 979,600	\$ 974,996	16.8
FY05	\$1,065,500	\$1,120,334	15.9
FY06	\$1,163,100	\$1,127,850	15.9
FY07	\$1,219,100	\$1,140,272	15.9
FY08	\$1,254,550	\$1,112,348	14.9
FY09	\$1,197,300	\$1,102,174	14.3
FY10	\$1,235,100	\$1,188,486	15.8
FY11	\$1,328,200	\$1,308,850	15.8
FY12	\$1,372,900	\$1,314,985	15.8
FY13	\$1,368,150	\$1,306,959	15.8
FY14	\$1,410,000	\$1,373,903	15.8
SY14	\$1,066,800	\$1,012,932	17.8
CY15	\$1,555,700	\$1,545,217	17.8 (Estimated)
CY16	\$1,619,400		18.8 (Budgeted)

2. **Utilities:** Electric power, natural gas, water, and telecommunications comprise Utilities, the second largest cost center in the O&M budget. The sum of these utility costs is shown below. The largest component of the utility bill is electrical power used for oxygen generation, pumping systems, mixing and various in-plant processes.

	<u>Actual</u>
FY04	\$617,574
FY05	\$606,375
FY06	\$588,400
FY07	\$693,128
FY08	\$1,194,869
FY09	\$769,137
FY10	\$873,093
FY11	\$976,915
FY12	\$1,163,751
FY13	\$752,600
FY14	\$799,084
SY14	\$560,071 8 Month Budget
CY15	\$981,500 (Estimated)
CY16	\$846,750 (Budgeted)

3. **Support Services:** The following are budgeted as support for each of the specific disciplines; Operations, Maintenance, Maintenance Building and Grounds, and Electrical. The CY2016 budget is proposed at a cumulative amount of \$347,550. This includes the cost of specialized support services that are more effectively and/or efficiently purchased or contracted than completed internally. Support Services range from \$250 per year for elevator inspections to \$114,000 per year for flow metering, data analysis, and meter maintenance fees.
4. **Maintenance:** Expenses are budgeted in the amount of \$151,700. This includes both electrical and mechanical maintenance of plant equipment and the maintenance of buildings and grounds. It is imperative that the capital investment that the Villages have made in their wastewater facility be maintained appropriately. These funds, coupled with those in Fund 40 allocated to Plant Equipment Rehabilitation, provide an excellent plan to maintain the Glenbard Plant process equipment. Maintenance funds cover both routine and non-routine repairs.
5. **Sludge (Biosolids) Disposal-Land Applied:** Expenses are budgeted in the amount of \$170,000. There are two products that are created during treatment through a wastewater facility. The first of the products is the clean water discharged to the river. The processes utilized to degrade the organic compounds in the wastewater generate sludge that is further treated then land applied as a beneficial re-use. The industry term “Biosolids” was coined for the product. GWA’s biosolids are applied to the farm fields at an agronomic rate acting as a fertilizer that is used to improve the growth of feed corn and other crops. The GWA sludge is particularly amenable to farm field application because the metal content of the sludge is low. This is primarily due to the Authority only having a few industrial dischargers in our planning area.
6. **Chemical Costs:** Expenses are budgeted in the amount of \$100,000 for both the Glenbard Plant and the Glenbard Stormwater Plant. Different types of chemicals are used for disinfection, dechlorination, sludge dewatering, odor control, cryo cooling water treatment, pH adjustment and other needs.

### **CAPITAL FUND**

This fund records those transactions that are related to the capital expenditures of the Authority. Capital can be spent on replacing “like for like” equipment at its useful life or for upgrading old processes to new technology.

The revenue for the capital plan is funded via the following components: equipment replacement fund, interest earned in the Capital and O&M funds,



sanitary sewer/GWA connection fees paid to both Villages, landfill leachate treatment, cell tower revenues, miscellaneous revenues and borrowing.

	<b>Estimated CY2015</b>	<b>Proposed CY2016</b>
Fund 40 – Equip. Replacement		
Debt Payment	\$ 827,000	\$ 637,000
Project Expenses	<u>\$5,452,000</u>	<u>\$10,664,000</u>
Total	\$6,279,000	\$11,301,000

Proposed CY2016 capital expenses of \$11,301,000 are 44.4% or \$5,022,000 higher than the CY2015 estimated capital expenses. The increase reflects the remaining construction and engineering of the Combined Heat and Power Project as well as construction services engineering and construction of the Facility Improvements Project per the Equipment Replacement Plan presented to you within the Capital Equipment Replacement Fund 40 Footnotes. Of significant note, the Facility Improvement Project is projected to be completed as part of a project through the Governors Clean Water Initiative Funding of the IEPA loan program. This funding requires additional support at a later date from both the member Villages.

### **ALLOCATION OF EXPENSES**

The Villages of Lombard and Glen Ellyn split the expenses for system operation and maintenance according to wastewater flows contributed by each partner based on the previous five (5) year average.

A total of 16 remote meters are located at key points in the Authority's system to enable the Authority to monitor flows which are allocated for billing purposes between the Villages of Lombard and Glen Ellyn. The Flow Meters also identify the flows associated with non-member entities such as DuPage County located on the North side of the GWA Facility Planning Area, and Illinois American Water Company located on the South side of the GWA Facility Planning Area.

In CY2016 a five-year average flow split of 46.16% (Glen Ellyn) and 53.84% (Lombard) is being utilized to estimate the expense allocations for the Wastewater Treatment Facilities. The true ups during the budget year will adjust the members budgeted portions as the flow splits become actual.

The CY2016 budget is inclusive of O&M Division 270 with expense allocation tracking for all facilities. Glen Ellyn recoups some of their operating costs through billings to DuPage County and Illinois-American Water Company. The ***Total O&M Budget Allocation*** estimates are as follows:

	<b>Budgeted CY2015</b>	<b>Proposed CY2016</b>
Village of Lombard	\$2,199,960	\$2,247,551
Village of Glen Ellyn	<u>\$1,943,090</u>	<u>\$1,926,949</u>
<b>Total</b>	<b>\$4,143,050</b>	<b>\$4,174,500</b>

The overall O&M contribution by the two Villages has increased by \$31,450 or 0.8% more than the CY2015 budget. The allocation to the Villages for the support of the O&M portion of the budget is \$4,174,500. The allocation to the Villages for support of the proposed Capital Fund is \$3,330,000.

### **CONCLUSION**

The total proposed CY2016 budget and comparisons are as follows:

	<b>Budgeted CY2015</b>	<b>Proposed CY2016</b>
O&M	\$ 4,146,650	\$ 4,178,000
Capital	<u>\$11,518,000</u>	<u>\$11,301,000</u>
Total	\$15,664,650	\$15,479,000

Respectfully Submitted,



Erik Lanphier  
Executive Director  
Glenbard Wastewater Authority



Glenbard Wastewater Authority  
 Budget CY2016  
 All Funds  
 Expense Allocation to Partners

APPROVED CY2015 EXPENSES ALLOCATED TO PARTNERS				
		LOMBARD	GLEN ELLYN	TOTAL
Div. 270 -- Glenbard Plant / SRI L.S. / Sunnyside L.S.		2,199,960	1,943,090	4,143,050
270-1 -- Stormwater Plant / Hill Ave L.S.				
270-2 -- North Reg. Int. / St. Charles Rd. L.S.				
270-3 -- South Reg. Int. / Valley View L.S.				
<b>TOTAL O&amp;M BUDGET</b>		<b>2,199,960</b>	<b>1,943,090</b>	<b>4,143,050</b>
<b>CAPITAL EQUIPMENT REPLACEMENT FUND</b>		<b>1,684,138</b>	<b>1,582,862</b>	<b>3,267,000</b>
<b>TOTAL O&amp;M AND CAPITAL BUDGETS</b>		<b>3,884,098</b>	<b>3,525,952</b>	<b>7,410,050</b>
ESTIMATED ACTUAL CY2015 EXPENSES ALLOCATED TO PARTNERS				
		LOMBARD	GLEN ELLYN	TOTAL
Div. 270 -- Glenbard Plant / SRI L.S. / Sunnyside L.S.		2,072,024	1,830,093	3,902,117
270-1 -- Stormwater Plant / Hill Ave L.S.		57,215	50,535	107,750
270-2 -- North Reg. Int. / St. Charles Rd. L.S.		10,089	8,911	19,000
270-3 -- South Reg. Int. / Valley View L.S.		5,947	5,253	11,200
<b>TOTAL O&amp;M BUDGET</b>		<b>2,145,275</b>	<b>1,894,791</b>	<b>4,040,067</b>
<b>CAPITAL EQUIPMENT REPLACEMENT FUND</b>		<b>1,684,138</b>	<b>1,582,862</b>	<b>3,267,000</b>
<b>TOTAL O&amp;M AND CAPITAL BUDGETS</b>		<b>3,829,413</b>	<b>3,477,653</b>	<b>7,307,067</b>
<b>CY2015 BUDGET OVER (UNDER)</b>		<b>(54,685)</b>	<b>(48,299)</b>	<b>(102,983)</b>
PROPOSED CY2016 PARTNERS ALLOCATION				
		LOMBARD	GLEN ELLYN	TOTAL
Div. 270 -- Glenbard Plant / SRI L.S. / Sunnyside L.S.		2,247,551	1,926,949	4,174,500
270-1 -- Stormwater Plant / Hill Ave L.S.				
270-2 -- North Reg. Int. / St. Charles Rd. L.S.				
270-3 -- South Reg. Int. / Valley View L.S.				
<b>TOTAL O&amp;M BUDGET</b>		<b>2,247,551</b>	<b>1,926,949</b>	<b>4,174,500</b>
<b>CAPITAL EQUIPMENT REPLACEMENT FUND</b>		<b>1,728,936</b>	<b>1,601,064</b>	<b>3,330,000</b>
<b>TOTAL O&amp;M AND CAPITAL BUDGETS</b>		<b>3,976,487</b>	<b>3,528,013</b>	<b>7,504,500</b>
Proposed CY2016 Partners Allocation Compared to Approved Expenses Allocated to Partners CY2015:				
Operation & Maintenance	\$	\$47,591	(\$16,141)	\$31,450
	%	2.2%	-0.8%	0.8%
Capital Improvements	\$	\$44,798	\$18,202	\$63,000
	%	2.7%	1.1%	1.9%
<b>Total O&amp;M and Capital Budgets</b>	\$	<b>92,389</b>	<b>2,061</b>	<b>94,450</b>
	%	<b>2.4%</b>	<b>0.1%</b>	<b>1.3%</b>

Glenbard Wastewater Authority Budget CY2016 Operations & Maintenance					
SUMMARY BY DIVISION					
Expense Allocation to Partners REVENUES	Actual FY2014	Actual SY2014	Budgeted CY2015	Estimated CY2015	Budgeting CY2016
Div. 270 -- Glenbard Wastewater Authority	3,744,449	2,712,474	4,143,050	4,143,050	4,174,500
Interest O&M Fund	12,422	-11,055	3,600	3,000	3,500
Miscellaneous Revenue	24	555	0	600	0
IRMA Reimbursement	0	0	0	35,897	0
<b>Total Revenues</b>	<b>3,756,895</b>	<b>2,701,974</b>	<b>4,146,650</b>	<b>4,182,547</b>	<b>4,178,000</b>
EXPENSES	Actual FY2014	Actual SY2014	Budgeted CY2015	Estimated CY2015	Budgeting CY2016
Div. 270 -- Glenbard Plant / SRI L.S. / Sunnyside L.S.	3,626,129	2,595,840	3,996,450	3,902,117	4,029,200
270-1 -- Stormwater Plant / Hill Ave L.S.	101,059	92,735	106,700	107,750	111,500
270-2 -- North Reg. Int. / St. Charles Rd. L.S.	17,860	8,392	30,000	19,000	27,500
270-3 -- South Reg. Int. / Valley View L.S.	11,847	5,007	13,500	11,200	9,800
<b>Total O&amp;M Expense:</b>	<b>3,756,895</b>	<b>2,701,974</b>	<b>4,146,650</b>	<b>4,040,067</b>	<b>4,178,000</b>
Village of Glen Ellyn O&M Expenditures	1,788,282	1,267,226	1,944,779	1,894,791	1,930,236
Village of Lombard O&M Expenditures	1,968,613	1,434,748	2,201,871	2,145,276	2,247,764
<b>INCOME GAIN (LOSS)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>142,480</b>	<b>0</b>
<b>Use of Available Cash</b>					

Glenbard Wastewater Authority CY2016 Total Budget					
	Actual FY2014	Actual SY2014	Budgeted CY2015	Estimated CY2015	Budgeting CY2016
<b>Operations &amp; Maintenance</b>	<b>\$3,756,895</b>	<b>\$2,701,974</b>	<b>\$4,146,650</b>	<b>\$4,040,067</b>	<b>\$4,178,000</b>
<b>Capital Costs</b> (Expenses & Debt Repayment)	<b>\$2,910,000</b>	<b>\$2,302,000</b>	<b>\$11,518,000</b>	<b>\$6,279,000</b>	<b>\$11,301,000</b>
<b>TOTAL</b>	<b>\$6,666,895</b>	<b>\$5,003,974</b>	<b>\$15,664,650</b>	<b>\$10,319,067</b>	<b>\$15,479,000</b>



**DIVISION 270  
GLENBARD PLANT  
and  
THE SRI LIFT STATION  
and  
SUNNYSIDE LIFT STATION  
O&M NARRATIVE**

Division 270 is the main treatment facility. The facility treats, on average, 12 million gallons per day (MGD). The flow is conveyed via two interceptors:

- ~The North Regional Interceptor (SRI)
- ~The South Regional Interceptor (NRI)

These interceptors end at a junction chamber that is located on the eastern property line. Once they have reached the junction chamber, one 60" sewer conveys the flow under the East Branch of the DuPage River and into the GWA Treatment Facility. The 22<sup>nd</sup> Street sewer pipe also conveys flow to the junction chamber, but is not considered an interceptor since it is the property of the Village of Lombard.

The SRI Lift Station is located on the southeastern corner of the Glenbard Plant. The station was built in 1992 to alleviate the overpowering flow of wastewater from the NRI that created sanitary sewer overflows of the South Regional Interceptor. The wastewater that is pumped through the SRI Lift Station is conveyed to the station by the South Regional Interceptor which receives flow exclusively from collection systems operated and maintained by Illinois-American Water, a private utility company regulated by the Illinois Commerce Commission. Glenbard provides wastewater treatment for Illinois-American Water, who pays a user charge for this service to the Village of Glen Ellyn.

The Sunnyside Lift Station which was built in 1979 as part of the re-aligning of the North Regional Interceptor (NRI) during the construction of the new Glenbard Wastewater Authority Treatment Facility. The NRI at the time was on the west side of the East Branch of the DuPage River. The construction of the new Glenbard plant re-aligned the NRI to the east side of the East Branch of the DuPage River. The homeowners that had laterals leading directly to the NRI needed to be serviced, so the creation of the Sunnyside Lift Station came to be. The lift station serves less than twelve residents along Sunnybrook Road.

Flow through the Glenbard Plant is billed to both the Village of Lombard and the Village of Glen Ellyn based on monthly flow billing.

Budget CY2016

Operations & Maintenance

Division 270

Expense Allocation to Partners

REVENUE

		Actual FY2014	Actual SY2014	Budgeted CY2015	Estimated CY2015	Budgeting CY2016
<b>Operation/Maintenance</b>						
450010	Glen Ellyn Share - 46.16%	1,629,750	1,232,190	1,943,090	1,943,090	1,926,949
450015	Lombard Share - 53.84%	2,114,699	1,480,284	2,199,960	2,199,960	2,247,551
	Partners Allocation	3,744,449	2,712,474	4,143,050	4,143,050	4,174,500
	<b>Interst Income - O&amp;M Fund</b>	<b>12,422</b>	<b>-11,055</b>	<b>3,600</b>	<b>3,000</b>	<b>3,500</b>
	<b>Misc. Revenue</b>	<b>24</b>	<b>555</b>	<b>0</b>	<b>600</b>	<b>0</b>
	<b>IRMA Reimbursement</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35,897</b>	<b>0</b>
<b>DIVISION 270</b>		<b>3,756,895</b>	<b>2,701,974</b>	<b>4,146,650</b>	<b>4,182,547</b>	<b>4,178,000</b>

NOTE: The flow splits used to calculate partner payments for CY2016 are as follows:

Flow Split for Glen Ellyn: 46.16%

Flow Split for Lombard 53.84%

(for 5 yrs. Average ending 12/31/14)

NOTE: The flow splits used to calculate partner payments for CY2015 are as follows:

Flow Split for Glen Ellyn: 46.90%

Flow Split for Lombard 53.10%

(for 5 yrs. Average ending 12/31/13)

NOTE: The flow splits used to calculate partner payments for SY2014 are as follows:

Flow Split for Glen Ellyn: 46.90%

Flow Split for Lombard 53.10%

(for 5 yrs. Average ending 12/31/13)

NOTE: The flow splits used to calculate partner payments for FY2014 were as follows:

Flow Split for Glen Ellyn: 47.60%

Flow Split for Lombard 52.40%

(for 5 yrs. Average ending 12/31/12)

## Budget CY2016

## Operations and Maintenance

## Division 270

## Expense Allocation to Partners

Footnotes

## EXPENSES

			Actual FY2014	Actual SY2014	Budgeted CY2015	Estimated CY2015	Budgeting CY2016
<b>Personnel Services</b>							
510100	Salaries - Regular	1	1,037,311	785,451	1,192,000	1,205,200	1,246,000
510110	Salaries - Part-Time Ops.	2	53,885	28,254	52,000	40,000	53,000
510200	Salaries - Overtime	3	48,092	29,068	50,000	45,000	50,000
510300	Salaries - Temporary/Seasonal		13,804	13,310	25,000	25,000	25,000
510400	FICA		85,538	61,842	91,200	95,000	105,150
510500	IMRF	4	134,019	93,318	145,500	135,000	140,250
510600	State Unemployment Tax		1,254	1,689	0	17	0
	<b>Total</b>		<b>1,373,903</b>	<b>1,012,932</b>	<b>1,555,700</b>	<b>1,545,217</b>	<b>1,619,400</b>
<b>Contractual Services and Commodities</b>							
520305	Employee Recognition		0	0	1,000	1,000	1,000
520600	Dues/Subs./Fees		11,962	11,564	15,000	2,000	12,500
520615	Recruiting/Testing		695	2,682	0	100	1,000
520620	Employee Education	5	10,725	22,165	28,500	20,000	24,300
520625	Travel (Mileage)		0	208	500	300	500
520700	Pro. Serv.-Legal	6	9,484	13,436	10,000	10,000	10,000
520750	Legal Notices		249	144	500	250	500
520775	Regulatory Fees		52,741	52,500	55,000	52,500	55,000
520776	DuPage River Salt Creek Work Group	7	21,875	22,531	23,500	23,000	30,000
520806	Pro. Serv.-Lab		21,838	13,948	27,000	11,900	30,000
520816	External Consulting Fees - NPDES Assist.	8	14,427	11,103	20,000	5,000	20,000
520825	Audit Fees / Pro. Serv. - Acct.	9	13,200	13,500	10,000	10,500	13,500
520885	Insurance - Liability (MICA)	10	213,385	127,352	237,000	182,600	192,000
520895	Insurance - Health	11	208,074	149,346	216,000	216,000	230,800
520970	Maint. - Bldg. & Grds.		13,961	12,448	17,200	16,000	17,200
520971	Bldg. & Grounds - Support		58,360	26,379	61,000	50,000	58,050
520975	Maint. - Equipment		64,093	42,122	60,000	66,000	69,500
520976	Maint. - Support	12	57,214	58,376	87,100	55,000	59,000
520980	Maint. - Electronics		78,727	48,369	94,000	40,000	65,000
520981	Elect. - Support	13	151,095	132,875	194,900	160,000	195,700
520990	Operations - Supplies		5,116	4,958	10,000	8,000	5,900
520991	Operations - Support		21,561	10,567	33,900	25,000	34,800
521130	Overhead Fees	14	125,200	84,000	126,500	126,500	128,400
521150	Sludge Disposal - Land Applied	15	183,120	102,416	180,000	165,000	170,000
521195	Telecommunications		66,220	46,805	76,250	67,000	30,750
521201	Electric Power	16	632,813	449,903	630,000	785,000	700,000
521202	Natural Gas	17	60,666	20,824	50,000	80,000	65,000
521203	Water		35,520	40,056	40,000	46,000	45,000
521204	Self-Gen Gas		3,865	2,483	5,000	3,500	6,000
530100	Office Expenses		20,089	9,644	20,000	20,500	20,000
530106	Operating Supplies - Lab		13,005	10,299	16,000	12,000	20,000
530107	Pretreatment Expenses		0	0	0	250	3,000
530200	Administrative Purchases		1,126	563	3,500	1,000	3,500
530225	Safety		16,608	12,279	19,400	15,000	16,900
530440	Chemicals	18	59,071	19,281	65,000	75,000	70,000
530445	Uniforms		6,141	7,782	7,000	5,000	5,000
	<b>Total</b>		<b>2,252,226</b>	<b>1,582,908</b>	<b>2,440,750</b>	<b>2,356,900</b>	<b>2,409,800</b>
<b>TOTAL DIVISION 270</b>			<b>3,626,129</b>	<b>2,595,840</b>	<b>3,996,450</b>	<b>3,902,117</b>	<b>4,029,200</b>

## CY2015 DIVISION 270 O&M FOOTNOTES

- (1) **SALARIES (\$1,246,000):**  
This budget number includes salaries provided for seventeen (17) full-time staff members with only 20% or \$20,800 of the budgeted salary for the Engineer/Assistant Director is included as the other 80% is being charged to the Capital Fund 40 due to the ratio of project related work versus operational administrative work. The full-time equivalent for all staff is approximately 18.8 including part-time operators and seasonal staff. This is an increase of 1 FTE compared to CY2015.
- (2) **SALARIES - PART-TIME OPERATORS (\$53,000):**  
The Glenbard Plant operates 24 hours per day, 7 days per week. The SCADA System monitors the plant while it is not manned. Work *is* required on weekends and holidays to assure continued treatment and processing to meet stream discharge standards. Most of this work involves solids processing that must be done 7 days per week. For approximately sixteen (16) years we have used Part-Time Operators to provide operational inspections and solids processing on weekends and holidays. The use of five (5) part-time operations staff has allowed the full-time operations staff to work a regular work week without needing to work swing shifts or weekend work unless a situation arises. This has worked out well, and has resulted in not only better working arrangements for the full-time operations staff, but also utilizes an expanded pool of operators who can be called upon to help with the plant operations. This item is based on the equivalent of a full time 40 hour per week employee.
- (3) **SALARIES – OVERTIME (\$50,000):**  
This budget figure represents no change compared to CY2015. GWA continues to trend overtime and manage this expense with best management practices in mind.
- (4) **IMRF (\$140,250):**  
This represents a \$5,250 reduction compared to the CY2015 budget number of \$145,500. Only 20% or \$2,251 of the IMRF contribution for the Engineer/Assistant Director is included as the other 80% is being charged to the Capital Fund 40 due to the ratio of project related work versus operational administrative work.
- (5) **EMPLOYEE EDUCATION (\$24,300):**  
The employee education line item this year includes but not limited to the following:
- |  |         |
|--|---------|
| College Reimbursement                            | \$7,000 |
| Illinois Public Sector Institute (IPSI) Training | \$3,000 |
| WEF Technical Conference                         | \$2,500 |
| Cryo Training reallocated from Ops Support       | \$2,500 |
- (6) **PROFESSIONAL SERVICE LEGAL (\$10,000):**  
Legal services remains the same as the approved CY2015 budget number due to miscellaneous legal needs regarding property purchases, lease agreements and access.

- (7) **DUPAGE RIVER SALT CREEK WORK GROUP (\$30,000):**  
The increase in the work group dues is a direct correlation to the IEPA. The project initiatives that the East / West Branch DuPage River & Salt Creek watersheds are providing to the IEPA are imperative to the impacts of the nutrient standards relating to point source dischargers. The work group has been recognized by the IEPA as a leader in developing remediation to stream standards particularly relating to habitat improvements. The work group believes that stream remediation is the path to healthier streams and rivers versus the implementation of nutrient discharge limits for phosphorus and total nitrogen. Educating communities about chloride utilization, storm water best management practices, and the discontinued use of coal tar sealants have also been important functions provided by this group. The IEPA has granted the Authority with two permit cycles (10) years without impending NPDES limits for phosphorus.
- (8) **External Consulting Fees (\$20,000):**  
This item covers the cost to hire a consulting engineer for small specific tasks required to implement equipment changes, operational changes or general consultation. Specifically in CY2016 the Authority will be requesting assistance with special condition requirements for our new NPDES permits for the Glenbard Plant and for the Stormwater Plant.
- (9) **AUDIT FEES (\$13,500):**  
The Audit fees for the Authority cover the cost of the Village of Glen Ellyn as the "Operating Agency" to hire a third party financial firm to provide an Audit of the CY2015 financials.
- (10) **INSURANCE LIABILITY (\$192,000):**  
This item represents the annual premium cost of our coverage with Municipal Insurance Cooperative Agency (MICA), a pooled insurance program, which provides a protected self-insured plan. Included in this expense line is the annual premium payment to MICA for CY2016 and an excess liability policy. This Line item is a \$45,000 decrease compared to the CY2015 budget number of \$237,000. Liability insurance consists of 2/3's Workman Comp costs and 1/3 Property insurance costs.
- (11) **INSURANCE HEALTH (\$230,800):**  
Health care is provided through the Village of Glen Ellyn insurance plan. This line item reflects a \$14,800 increase over the CY2015 budget number of \$216,000. Only 20% or an estimated \$3,800 of the Health Insurance contribution for the Engineer/Assistant Director is included as the other 80% is being charged to the Capital Fund 40 due to the ratio of project related work versus operational administrative work.
- (12) **MAINTENANCE SUPPORT (\$59,000):**  
This line item reflects work previously budgeted in the Maintenance-Contractual line item. A few of the most significant expenses included in this item in CY2016 are:



Vehicle Maintenance (Provided by VGE) Costs	\$40,040
Miscellaneous Equipment Maintenance	\$9,300
Maintenance Garage	\$3,300
Digester Boiler Preventative Maintenance Costs	\$2,400

(13) **ELECTRICAL SUPPORT (\$195,700)**

This line item reflects a slight increase in CY2016 compared to CY2015 budget number of \$194,900. The increase is attributed to slight calendar year adjustments for costs associated with annual service contract increases.

(14) **OVERHEAD FEES (\$128,400):**

Overhead fees per the Intergovernmental Agreement (IGA) are based on the annually published CPI-U Chicago increase of 1.48% for the CY2016 budget. The administrators for the member Villages reviewed the demands of the Authority regarding the Operating Agency's responsibility for oversight and felt that after three years (per the IGA) the review of workload allocation and the cost to support the Authority is acceptable for another three years.

(15) **SLUDGE DISPOSAL FEES (170,000):**

Sludge disposal fees have been calculated based off of FY14, SY14 and CY215 actual, calculated and estimated budget numbers.

(16) **ELECTRIC POWER (\$700,000):**

The Authority is currently in our first year of a three (3) year agreement which began in CY2015 with Dynegy Energy for a Fixed Fee of \$.0478/KWH. Our power consumption is directly impacted by wet weather conditions impacting our facilities. This line item has the largest increase of all operational increases due to the unannounced 25% delivery charge increase imposed by Com-Ed in 2015. Comparably speaking, our previous two years of actual financial information indicates the Authority spent on average of \$654,000 per year versus the CY2015 estimate of \$785,000.

(17) **NATURAL GAS (\$65,000):**

The Authority is currently in our first year of a three (3) year agreement which began in CY2015 with Integrys Energy for a Fixed Fee of \$.419/therm.

(18) **CHEMICALS (\$70,000):**

Chemicals used in the daily operation of the plant are included in this section at expected levels consistent with our recent history. Different chemicals are used for sludge dewatering, odor control, acid wash, and mineral deposition throughout the plant. Polymer production costs continue to increase annually due to the product being petroleum based.

**Glenbard Wastewater Authority  
CY2016 Personnel Budget  
Division 270 -- 510100-510500**

Item		Recommendations	CY15 Budgeted	CY16 Budgeting
510100	Salaries - Regular		1,192,000	1,246,000
510110	Part - Time Operations	1.0 Full Time Equivalent	52,000	53,000
510200	Laboratory Overtime		2,000	2,000
510200	Ops. Reg. Overtime		3,000	3,000
510200	High Flow Overtime		3,000	3,000
510200	Ops. Call-In Overtime		10,000	10,000
510200	Ops. SCADA Monitoring Overtime		20,000	20,000
510200	Maint. Regular Overtime		4,000	4,000
510200	Maint. Call-In Overtime		2,000	2,000
510200	Elec. Reg. Overtime		4,000	4,000
510200	Elec. Call-In Overtime		2,000	2,000
510300	Part Time Labor	.50 Full Time Equivalent	25,000	25,000
			<hr/>	<hr/>
			Salaries Regular, PT Ops & Seasonal	1,324,000
			Salaries Overtime (3)	50,000
			<hr/>	<hr/>
			<b>Salaries</b>	<b>1,374,000</b>
510400	FICA		61,000	105,111
510500	IMRF (4)		98,000	140,227
510600	State Unemployment Tax		0	0
			<hr/>	<hr/>
			<b>Personnel Services</b>	<b>\$1,478,000</b>
				<b>\$1,619,338</b>

**Glenbard Wastewater Authority  
CY2016 Recognition/Awards Budget  
270 520305**

Item	Recommendation	CY15 Budgeted	Total	CY16 Budgeting	Total
Recognition/Awards	Miscellaneous (Manager's Discretion)	1,000		1,000	
<b>Total</b>			<b>\$1,000</b>		<b>\$1,000</b>

**Glenbard Wastewater Authority**  
**CY2016 Dues/Fees/Subscriptions Budget**  
**270 520600**

<b>Item</b>	<b>Recommendations</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Dues/Fees/Subs.	Water Environment Federation - Memberships	1,100		1,100	
	WEF - Publications	400		400	
	NACWA	5,500		5,500	
	IAWA	7,000		7,000	
	NFPA Membership	150		150	
	Lab Meeting Registrations	100		100	
	American Public Works Associaton - Memberships	150		150	
	Fox Valley Operators Association	300		300	
	Miscellaneous (Managers Discretion)	300		300	
		<hr/>		<hr/>	
			<b>\$15,000</b>		<b>\$15,000</b>

**Glenbard Wastewater Authority**  
**CY2016 Recruit/Test Budget**  
**270 520615**

Item	Recommendation	CY15 Budgeted	Total	CY16 Budgeting	Total
Recruiting/Testing	Chicago Tribune				
	Daily Herald	0		1,000	
	Coply Newspapers				
	Liberty Publicatons (Glen Ellyn News)				
	WEF				
	OMNI - Employment Physicals				
		<hr/>		<hr/>	
			0		1000



**Glenbard Wastewater Authority  
CY2016 Employee Training/Education Budget  
270 520620**

		<b>CY15 Budgeted</b>	<b>CY16 Budgeting</b>
<b>Administration</b>	<b>Employee Education - Administration</b>		
	WEFTEC --		
	CSWEA, IWEA, IAWA (Meetings/Conferences)	1,000	2,500
	Database Training	2,000	2,000
	College Reimbursement	6,000	3,000
	IPSI - Illinois Public Sector Institute Training - L. Frieders Year 1 of 3 year training program.	3,500	3,500
<b>Operations</b>		0	1,500
	<b>Employee Education - Operations (5 Operators)</b>		
	WEFTEC --		
	Misc Tech Seminars	1,000	0
	College Reimbursement	1,000	1,000
	Cryo System Training	3,500	3,500
<b>Maintenance</b>	Central States WEA, IAWA State Conferences	5,000	2,500
		400	1,000
	<b>Employee Education - Maintenance</b>		
	WEFTEC --		
	Facilities Maintenance Show -- 4 Maint Mech (Chicago)	0	0
	Maintenance Based Courses/Seminars	100	300
<b>Electrical</b>	IPSI - Illinois Public Sector Institute Training - J. Dahlberg Year 3 of 3 year training program	500	500
	Misc Tech Seminars	1,500	1,500
		500	500
	<b>Employee Education - Electrical</b>		
	WEFTEC --		
	IPSI - Illinois Public Sector Institute Training	0	0
<b>Lab</b>	Facilities Maintenance, ISA Shows -- R. Freeman, P. Dziewior & J. Solita (Chicago)	1,500	0
		500	500
	<b>Employee Education - Laboratory</b>		
	Misc Tech Seminars	500	500
		<b>\$28,500</b>	<b>\$24,300</b>

This fund is inclusive of all costs associated with each Training/Education item, including transportation(non-mileage), hotel, rental car, and meals.

**Glenbard Wastewater Authority  
CY2016 Mileage Reimbursement Budget  
270 520625**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Travel	Travel for Seminars/Training Manufacturing Trade Shows I-Pass	500		500	
		<hr/>		<hr/>	
		<b>\$500</b>		<b>\$500</b>	

Glenbard Wastewater Authority  
CY2016 Pro. Svc. Legal Budget  
270 520700

Item	Recommendation	CY15 Budgeted	Total	CY16 Budgeting	Total
Pro. Svc. Legal	Contracted Legal Assistance	10,000		10,000	
Total			<u>\$10,000</u>		<u>\$10,000</u>

**Glenbard Wastewater Authority**  
**CY2016 Legal Notices**  
**270 520750**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Legal Notices	Chicago Tribune				
	Daily Herald	500		500	
			<u>\$500</u>		<u>\$500</u>

**Glenbard Wastewater Authority  
CY2016 Regulatory Fees  
270 520775**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Glenbard Plant	IEPA Regulatory Fees associated with the NPDES permit and sludge disposal permit as legislated by State.	55,000		55,000	
		<hr/>		<hr/>	
				<b>\$55,000</b>	<b>\$55,000</b>



**Glenbard Wastewater Authority**  
**CY2016 DuPage River Salt Creek Work Group Commitment**  
**270 520776**

Recommendation		CY15 Budgeted	Total	CY16 Budgeting	Total
GWA	Workgroup Membership Dues	23,000		30,000	

Based on the approval of TMDL (Total Max. Daily Load) reports which address the water quality of the local streams and rivers relative to their Dissolved Oxygen and Chloride Levels, the IEPA has directed all wastewater treatment facilities in DuPage County to reserve funds for the efforts to improve water in Salt Creek and the East/West Branches of the DuPage River. This proposed funding is based on Work Group method established on January 26, 2005 and represents Contribution for the Glenbard Wastewater Authority by Million Gallons per Day.

The Work group research has found that habitat improvement is showing positive signs after multiple dam removal efforts. DRSCWG is working with the IEPA to help promote scientific data for improved watershed quality.

---

**\$23,000**

---

**\$30,000**

**Glenbard Wastewater Authority  
CY2016 Prof. Svc. Lab. Budget  
270 520806**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Cont. Testing	Suburban Laboratories (Metals)	16,000		17,000	
	Additional Monthly Metals Testing	6,000		7,000	
	Additional Monthly Sludge Fecal Testing	5,000		6,000	
		<hr/>		<hr/>	
			<b>\$27,000</b>		<b>\$30,000</b>

**Glenbard Wastewater Authority  
CY2016 Prof. Svc. Eng. Budget  
270 520816**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Pro. Serv. Engr.	External Consulting Fees	20,000		20,000	
		<hr/>		<hr/>	
				<b>\$20,000</b>	<b>\$20,000</b>

**Glenbard Wastewater Authority  
CY2016 Prof. Svc. Acct. Budget  
270 520825**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Pro. Svc. Acct.	Contracted Audit/Acct. Fees	10,000		10,500	
	Single Audit -			3,000	
	If SRF Distributions Have Been Received				
		<hr/>		<hr/>	
				<b>\$10,000</b>	<b>\$13,500</b>

**Glenbard Wastewater Authority  
CY2016 Ins-Liab Budget  
270 520885**

Item	Recommendation	CY15 Budgeted	Total	CY16 Budgeting	Total
Ins.-Liability	Fees for Workmans Comp Liability Coverage	158,000		128,000	
	Fees for Property Portion Liability Coverage	79,000		64,000	
		<hr/>		<hr/>	
			<b>\$237,000</b>		<b>\$192,000</b>

All Facilities included - Property Portion Equals 1/3 of Total Portion

Total Liability Insurance Amount: \$192,000 is a 5% increase over actual \$182,600 billed for CY2015

**Glenbard Wastewater Authority  
CY2016 Health Insurance Fees Budget  
270 520895**

Item	Recommendation	CY15 Budgeted	Total	CY16 Budgeting	Total
Ins. - Health	Fees for Employee Health Insurance Coverage	216,000		230,800	
		<hr/>		<hr/>	
				<b>\$216,000</b>	<b>\$230,800</b>

Total Health Insurance amount reflects a 5% increase over CY2015

Add \$3,800 to \$227,000 to account for 20% of the Engineer/Assistant Director Position.



**Glenbard Wastewater Authority**  
**CY2016 - Buildings and Grounds Budget**  
**Maintenance**  
**270 520970**

Description	Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
GWA Building/Grounds	Janitorial Supplies for Custodians	2,500		2,500	
	Door/Lock/Misc Repairs	2,500		2,500	
	Bldg./Equipment. Painting Supplies (Non-Contract)	4,500		4,500	
	Misc. Repair Parts	1,000		1,000	
	Mulch	2,000		2,000	
	Planting Beds	1,200		1,200	
	Topsoil	3,500		3,500	
			\$17,200		\$17,200

**Glenbard Wastewater Authority**  
**CY2016 - Buildings and Grounds - Support Budget**  
**Maintenance**  
**270 520971**

<b>DESIGNATION</b>	<b>RECOMMENDATIONS</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Glenbard Plant	Roofing Systems Survey	4,500		4,500	
	Contractor Door/Lock Repairs	3,000		3,000	
	Spoil Removal	1,500		0	
	Shop Towel Service	1,600		1,600	
	Fire Extinguisher Service/Repairs	2,500		4,000	
	Elevator Services/Repairs	1,800		2,000	
	Elevator Press Tests	500		500	
	Elevator Inspections	250		250	
	Landscape Maintenance	16,000		16,000	
	Pest Control	850		700	
	Tru-Green Chemlawn - Turf/Shrub Disease Control	5,200		5,200	
	Contracted Window Repairs	2,000		2,000	
	Contracted Janitorial Service	18,000		15,000	
	Unanticipated Contracted Building/Grounds Repairs	2,300		2,300	
	Admin Window Cleaning Contract	1,000		1,000	
			<b>\$61,000</b>		<b>\$58,050</b>

**Glenbard Wastewater Authority**  
**CY2016 Equipment Maintenance Budget**  
**270 520975**

<b>Building</b>	<b>Designation</b>	<b>CY15 Budgeted</b>	<b>CY16 Budgeting</b>
A	Bar Screen	300	300
B	Raw Pump	1,200	1,200
C	Grit Removal	600	600
D	Primary Pump	1,100	1,100
E	Primary Scum	5,300	5,300
F	Unox	6,700	7,000
H	Screw Pump	1,500	4,900
I	Final Clarifiers	200	200
L	Sand Filter	1,100	1,100
N	Warehouse	2,200	2,200
T	CRAS	1,100	1,100
P	Press	9,800	9,800
Q	Cryo.	4,500	4,500
R	Administration	1,300	1,300
S	Maint. Garage	500	500
	Electrical Shop	100	100
U	Digester	1,900	1,900
V	Co-Gen	1,200	7,000
	Miscellaneous	19,400	19,400
<b>TOTAL</b>		<b>\$60,000</b>	<b>\$69,500</b>

**Glenbard Wastewater Authority  
CY2016 Maintenance Budget**

<b>Recommendations</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
<b>Bar Screen</b>				
Washer Solenoid Parts	300		300	
		<b>\$300</b>		<b>\$300</b>
<b>Raw Pump</b>				
Parco Oil	900		900	
Wetwell Lid Rings (Plant-Wide Usage)	300		300	
		<b>\$1,200</b>		<b>\$1,200</b>
<b>Grit</b>				
Oil and Grease	400		400	
Blower Drive Belts	200		200	
		<b>\$600</b>		<b>\$600</b>
<b>Primary Pump</b>				
Compressor Filters	100		100	
Pump Parts	800		800	
Oil and Grease	200		200	
		<b>\$1,100</b>		<b>\$1,100</b>
<b>Primary Scum</b>				
Odor Control Parts	3,000		3,000	
Pump Parts	2,000		2,000	
Compressor Filters/Oil	300		300	
		<b>\$5,300</b>		<b>\$5,300</b>
<b>Unox</b>				
Unox Control System Parts/Misc. Parts	400		400	
Emergency Repair Parts	3,000		3,000	
Seal Antifreeze	300		300	
Mixer Oil	3,000		3,300	
		<b>\$6,700</b>		<b>\$7,000</b>

Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
<b>Screw Pump</b>				
V-Belts	1,100		1,100	
Grease	900		3,600	
Drive Oil	600		1,300	
		<b>\$1,500</b>		<b>\$4,900</b>
<b>Final Clarifiers</b>				
Grease	200		200	
		<b>\$200</b>		<b>\$200</b>
<b>Sand Filter</b>				
Valve Repair	500		500	
Filter Sand Sieve Analysis	400		400	
Oil Sep. Cartridge for Air System	200		200	
		<b>\$1,100</b>		<b>\$1,100</b>
<b>Warehouse</b>				
Shelving Rehab	2,200		2,200	
		<b>\$2,200</b>		<b>\$2,200</b>
<b>CRASS</b>				
Check Valve Pump Parts	1,000		1,000	
Filters	100		100	
		<b>\$1,100</b>		<b>\$1,100</b>
<b>Press</b>				
Press Belt Set (1)	9,000		9,000	
Press Seal	800		800	
		<b>\$9,800</b>		<b>\$9,800</b>

Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
<b>Cryo</b>				
Oil and Filters	900		900	
Misc. Parts	800		800	
Replacement PRV's	1,300		1,300	
RHX Jamesburry/Valve Rehabs	1,000		1,000	
Emergency Repair/Parts	500		500	
		<u>4,500</u>		<u>\$4,500</u>
<b>Admin</b>				
Lavatory Repair Parts	500		500	
Washer/Dryer Parts	800		800	
		<u>1,300</u>		<u>\$1,300</u>
<b>Maintenance Garage</b>				
Torch Gas/Welding Supplies	500		500	
		<u>500</u>		<u>\$500</u>
<b>Electric Shop</b>				
Compressor Filters	100		100	
		<u>100</u>		<u>\$100</u>
<b>Digester Repairs</b>				
Boiler Parts	900		900	
Gas Safety Equipment Repairs	1,000		1,000	
		<u>1900</u>		<u>\$1,900</u>
<b>Co-Gen</b>				
Oil, Coolant and Filters	1,200		7,000	
		<u>1200</u>		<u>\$7,000</u>

Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
<b>Misc. Supplies</b>				
Paints/Supplies	2,000		2,000	
Replacement Tools	1,500		1,500	
Oil Analysis	800		800	
Radio Repair/Batteries	1,500		1,500	
Hardware -- Bolts/Nuts/Drills/Taps	3,600		3,600	
Parts Repair Shipping Costs (Freight)	2,000		2,000	
Portable Pump Hose Replacements	1,400		1,400	
Vacuum Hose Replacment	1,300		1,300	
Hardware -- PVC Piping	400		400	
Hardware -- Galvanized Piping	800		800	
Misc. Valves/Repair Clamps	1,200		1,200	
Manhole Repair Parts	1,000		1,000	
Unanticipated Equipment Repair Parts	1,900		1,900	
		<u>\$19,400</u>		<u>\$19,400</u>
<b>TOTAL</b>		<u>\$60,000</u>		<u>\$69,500</u>

**Glenbard Wastewater Authority**  
**CY2016 Equipment Maintenance - Support Budget**  
**270-520976**

<b>Building</b>	<b>Designation</b>	<b>CY15 Budgeted</b>	<b>CY16 Budgeting</b>
Q	Cryo - Annual Maintenance	27,000	0
R	Administration	400	400
S	Maint. Garage	3,300	3,300
	Electric Shop	200	200
U	Digester	5,400	2,400
V	Co-Gen	100	100
	Intermediate Clarifiers	200	200
T	CRAS	800	800
	Miscellaneous	9,300	9,500
	Vehicle Maintenance (Village)	40,400	42,100
<b>TOTAL</b>		<b>\$87,100</b>	<b>\$59,000</b>



**Glenbard Wastewater Authority  
CY2016 Maintenance - Support Budget  
270 520976**

<b>Recommendations</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Routine Annual Maintenance Turnaround	27,000		0	
		<b>\$27,000</b>		<b>\$0</b>
<b>Admin</b>				
Washer/Dryer Maintenance	400		400	
		<b>\$400</b>		<b>\$400</b>
<b>Maintenance Garage</b>				
Safety Klean Parts Service	2,500		2,500	
Torch Gas Cylinder Lease	300		300	
Miscellaneous	500		500	
		<b>\$3,300</b>		<b>\$3,300</b>
<b>Elec. Shop</b>				
Boiler Repairs	200		200	
Boiler Certification Inspections	0		0	
		<b>\$200</b>		<b>\$200</b>
<b>Recommendations</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
<b>Digester</b>				
Boiler Repairs	400		400	
Boiler Tuneup/Inspection/Cleaning/Repairs	4,500		1,500	
Boiler Certification Inspections	500		500	
		<b>\$5,400</b>		<b>\$2,400</b>
<b>Co-Gen</b>				
Patten - Engine Service	100		100	
		<b>\$100</b>		<b>\$100</b>
<b>Intermediate Clarifiers</b>				
Repairs, Grease	200		200	
		<b>\$200</b>		<b>\$200</b>

Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
<b>CRAS</b>				
Pump Repairs	800		800	
		<b>\$800</b>		<b>\$800</b>
<b>General Maintenance</b>				
Overhead Crane Inspection/Repairs	2,300		2,300	
State Boiler/Pressure Vessel Certifications	800		800	
Elevator Service	900		900	
Elevator Inspections - Lombard	400		400	
RPZ Cross Connection Inspections - Lombard	400		400	
RPZ Inspections	800		1,500	
4" & 8" Portable Pump Repairs	1,200		1,200	
Snowthrower Equipment Repairs	500		0	
Electric Powered Tool Repairs	800		800	
Unanticipated Contracted Equipment Repairs	1,200		1,200	
<b>Miscellaneous Total</b>		<b>9,300</b>		<b>9,500</b>
Vehicle Maintenance Services (Provided by Village of Glen Ellyn)	40,400		42,100	
		<b>\$40,400</b>		<b>\$42,100</b>
<b>Total</b>		<b>\$87,100</b>		<b>\$59,000</b>

**Glenbard Wastewater Authority**  
**CY2016 Maintenance Electronics Budget Details**  
**270 520980**

Building	Designation	CY15 Budgeted	CY16 Budgeting
A	Bar Screen	3,900	3,100
B	Raw Pumps	14,900	8,400
C	Grit	3,050	2,750
D	Primary Clarifier	500	500
E	Primary Pump	2,750	2,650
F	Unox Deck	5,150	3,850
G	ATAD	800	550
H	Screw Pump	2,250	2,150
I	Final Clarifier	1,700	1,450
J	Pump/Meter	3,100	2,900
K	Thickener	550	550
L	Sandfilter	3,550	2,250
N	Warehouse	1,300	900
O	UV	6,750	3,000
P	Press	7,400	4,000
Q	Cryo	6,650	3,500
R	Administration	4,400	3,000
S	Maint. Garage	1,500	1,300
T	CRAS	2,500	2,200
U	Digester	5,500	4,000
V	Co-Gen	3,800	3,000
	Elec. Supplies	12,000	9,000
		<b>\$94,000</b>	<b>\$65,000</b>

**Glenbard Wastewater Authority**  
**CY2016 Maintenance Electronics Budget Details**  
**270 520980**

<b>Designation</b>	<b>Recommendations</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
<b>Bar Screen</b>	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	500		200	
	Instrumentation PM Repairs	500		500	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	200		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	800		800	
	SCADA System PM/Repairs	800		800	
	Telecommunications PM/Repairs	500		100	
	<b>Bar Screen Total</b>		<b>\$3,900</b>		<b>\$3,100</b>
<b>Raw Pumps</b>	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	4,000		2,000	
	HVAC Equipment PM/Repairs	700		700	
	Instrumentation PM/Repairs	4,000		2,000	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	1,400		100	
	Motor PM/Repairs	2,000		1,000	
	Safety Equipment PM/Repairs	200		200	
	SCADA System PM/Repairs	2,000		2,000	
	Telecommunications PM/Repairs	300		100	
	<b>Raw Pumps Total</b>		<b>\$14,900</b>		<b>\$8,400</b>

Designation	Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
<b>Grit</b>	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	400		400	
	HVAC Equipment PM/Repairs	300		300	
	Instrumentation PM/Repairs	500		500	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	400		100	
	Motor PM/Repairs	100		100	
	Safety Equipment PM/Repairs	500		500	
	SCADA System PM/Repairs	500		500	
	Telecommunications PM/Repairs	50		50	
	<b>Grit Total</b>		<b>\$3,050</b>		<b>\$2,750</b>
<b>Primary Clarifier</b>	Control Panel PM/Repairs	0		0	
	Electrical Distribution PM/Repairs	300		300	
	HVAC Equipment PM/Repairs	0		0	
	Instrumentation PM/Repairs	100		100	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	0		0	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	0		0	
	<b>Primary Clarifier Total</b>		<b>\$500</b>		<b>\$500</b>

Designation	Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
Primary Pump	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	100		100	
	HVAC Equipment PM/Repairs	400		400	
	Instrumentation PM/Repairs	100		100	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	200		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	500		500	
	SCADA System PM/Repairs	1,000		1,000	
	Telecommunications PM/Repairs	50		50	
	<b>Primary Pump Total</b>		<b>\$2,750</b>		<b>\$2,650</b>
Unox Deck	Control Panel PM/Repairs	1,000		500	
	Electrical Distribution PM/Repairs	600		500	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM/Repairs	1,500		1,000	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	1,500		1,300	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	50		50	
	<b>Unox Deck Total</b>		<b>\$5,150</b>		<b>\$3,850</b>

Designation	Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
<b>ATAD</b>	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	300		100	
	HVAC Equipment PM/Repairs	0		0	
	Instrumentation PM/Repairs	0		0	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	100		100	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	100		50	
	<b>ATAD Total</b>		<b>\$800</b>		<b>\$550</b>
<b>Screw Pump</b>	Control Panel PM/Repairs				
	Electrical Distribution PM/Repairs	1,000		1,000	
	HVAC Equipment PM/Repairs	300		200	
	Instrumentation PM/Repairs	200		200	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	500		500	
	Safety Equipment PM/Repairs	100		100	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	50		50	
	<b>Screw Pump Total</b>		<b>\$2,250</b>		<b>\$2,150</b>

Designation	Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
<b>Final Clarifer</b>	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	500		500	
	HVAC Equipment PM/Repairs	0		0	
	Instrumentation PM/Repairs	500		250	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	200		200	
	Telecommunications PM/Repairs	100		100	
	<b>Final Clarifier Total</b>		<b>\$1,700</b>		<b>\$1,450</b>
<b>Pump and Meter</b>	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	100		100	
	HVAC Equipment PM/Repairs	100		100	
	Instrumentation PM/Repairs	1,000		1,000	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	300		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	100		100	
	SCADA System PM/Repairs	1,000		1,000	
	Telecommunications PM/Repairs	100		100	
	<b>Pump and Metering Total</b>		<b>\$3,100</b>		<b>\$2,900</b>



Designation	Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
<b>Thickener</b>	Control Panel PM/Repairs	0		0	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM/Repairs	0		0	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	50		50	
	Motor PM/Repairs	100		100	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	0		0	
	<b>Thickener Total</b>		<b>\$550</b>		<b>\$550</b>
<b>Sandfilter</b>	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	800		200	
	HVAC Equipment PM/Repairs	500		200	
	Instrumentation PM/Repairs	300		300	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	500		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	1,000		1,000	
	Telecommunications PM/Repairs	50		50	
	<b>Sandfilter Total</b>		<b>\$3,550</b>		<b>\$2,250</b>

Designation	Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
<b>Warehouse</b>	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	500		200	
	HVAC Equipment PM/Repairs	100		100	
	Instrumentation PM/Repairs	0		0	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	200		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	100		100	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	100		100	
	<b>Warehouse Total</b>		<b>\$1,300</b>		<b>\$900</b>
<b>UV</b>	Control Panel PM/Repairs	4,000		1,000	
	Electrical Distribution PM/Repairs	500		200	
	HVAC Equipment PM/Repairs	300		200	
	Instrumentation PM/Repairs	400		300	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	400		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	100		100	
	SCADA System PM/Repairs	700		700	
	Telecommunications PM/Repairs	50		100	
	<b>UV Total</b>		<b>\$6,750</b>		<b>\$3,000</b>

Designation	Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
<b>Press</b>	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	900		500	
	HVAC Equipment PM/Repairs	2,000		500	
	Instrumentation PM/Repairs	1,000		1,000	
	LAN PM/Repairs	200		200	
	Lighting Equipment PM/Repairs	500		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	200		200	
	SCADA System PM/Repairs	2,000		1,000	
	Telecommunications PM/Repairs	200		100	
	<b>Press Total</b>		<b>\$7,400</b>		<b>\$4,000</b>
<b>Cryo</b>	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	150		100	
	Instrumentation PM/Repairs	2,000		1,000	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	2,000		400	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	1,500		1,000	
	Telecommunications PM/Repairs	500		500	
			<b>\$6,650</b>		<b>\$3,500</b>

Designation	Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
<b>Administration</b>	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	300		300	
	HVAC Equipment PM/Repairs	300		300	
	Instrumentation PM/Repairs	400		400	
	LAN PM/Repairs	500		300	
	Lighting Equipment PM/Repairs	300		100	
	Motor PM/Repairs	500		200	
	Safety Equipment PM/Repairs	400		200	
	SCADA System PM/Repairs	500		500	
	Telecommunications PM/Repairs	1,000		500	
	<b>Administration Total</b>		<b>\$4,400</b>		<b>\$3,000</b>
<b>Maintenance Garage</b>	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM/Repairs	0		0	
	LAN PM/Repairs	200		200	
	Lighting Equipment PM/Repairs	300		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	100		100	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	200		200	
	<b>Maintenance Garage Total</b>		<b>\$1,500</b>		<b>\$1,300</b>

Designation	Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
<b>CRAS</b>	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	100		100	
	HVAC Equipment PM/Repairs	100		100	
	Instrumentation PM/Repairs	1,000		800	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	200		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	200		200	
	SCADA System PM/Repairs	200		200	
	Telecommunications PM/Repairs	300		300	
	<b>CRAS Total</b>		<b>\$2,500</b>		<b>\$2,200</b>
<b>Digester</b>	Control Panel PM/Repairs	500		300	
	Electrical Distribution PM/Repairs	500		300	
	HVAC Equipment PM/Repairs	800		400	
	Instrumentation PM/Repairs	700		500	
	LAN PM/Repairs	200		200	
	Lighting Equipment PM/Repairs	500		100	
	Motor PM/Repairs	600		500	
	Safety Equipment PM/Repairs	500		500	
	SCADA System PM/Repairs	1,000		1,000	
	Telecommunications PM/Repairs	200		200	
	<b>Digester Total</b>		<b>\$5,500</b>		<b>\$4,000</b>

Designation	Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
Co-Gen	Control Panel PM/Repairs	300		200	
	Electrical Distribution PM/Repairs	300		300	
	HVAC Equipment PM/Repairs	500		300	
	Instrumentation PM/Repairs	1,000		800	
	LAN PM/Repairs	200		200	
	Lighting Equipment PM/Repairs	200		100	
	Motor PM/Repairs	500		300	
	Safety Equipment PM/Repairs	300		300	
	SCADA System PM/Repairs	300		300	
	Telecommunications PM/Repairs	200		200	
	<b>Co-Gen Total</b>		<b>\$3,800</b>		<b>\$3,000</b>
Electrical Supplies	Conduit, wire, enclosures, fittings, switches, batteries, cleaning supplies, contact cleaners				
	electronic components, Pneumatic Tubing & Fittings Thermal Overloads, fasteners, strut wire, nuts, etc.				
		12,000		9,000	
	<b>Electrical Total</b>		<b>\$12,000</b>		<b>\$9,000</b>
	<b>Grand Total</b>		<b>\$94,000</b>		<b>\$65,000</b>

**Glenbard Wastewater Authority**  
**CY2016 Electrical/Electronics - Support Budget**  
**270 520981**

<b>Designation</b>	<b>Recommendations</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Administration	Network/Communications Consulting	10,000		10,000	
	Maximo CMMS Consulting	15,000		15,000	
	Intellution iFIX Global Support	12,000		12,500	
	Fire/Security Alarm Systems Monitoring	1,600		2,100	
	Software Support agreement Specter (Win-911)	1,300		1,300	
	Software Support Agreements Cisco (Firewall)	1,000		1,000	
	Software Support Agreement IBM (Maximo)	5,650		5,650	
	Software Support Agreement Rockwell (PLC)	1,200		1,200	
	Software Support Agreement WIMS	2,800		0	
	Software Support Agreement TimeTrax (Time Clock)	250		250	
	Software Support Symantec (A/V)	1,800		2,000	
	Software Support Symantec Backup Exec	800		800	
	Servers Hardware Support			3,500	
	Telephone System Support Agreement Midco	2,200		2,300	
	Fire/Security Alarm Systems Support Agreement Siemens	6,500		11,000	
	Microsoft Server Select Agreement / Client Select Agreement	0		4,000	
Flow Metering	ADS Flow Meter Maintenance/Data Analysis	114,000		114,000	
UV	Effluent Ammonia Analyzer Service Contract	3,900		4,100	
Plant Wide	HVAC Refrigeration Repairs	5,000		5,000	
Co-Generation	Switchgear Bi-Annual PM	5,700		0	
	Protection Relay Bi-Annual Calibration	4,200		0	
			<b>\$194,900</b>		<b>\$195,700</b>

**Glenbard Wastewater Authority  
CY2016 Operations - Supplies Budget  
270 520990**

<b>Item</b>	<b>Recommendations</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Operating Supplies	Operational Supplies				
	Misc. Supplies	3,400		3,400	
	Home Depot				
	Blue Book				
	McMaster-Carr				
	McCann Equipment				
	Ace Hardware				
	Carbit Paint				
	Hose Replacements	2,500		2,500	
		<hr/>		<hr/>	
		<b>\$5,900</b>		<b>\$5,900</b>	



**Glenbard Wastewater Authority**  
**CY2016 Operations - Support Budget**  
**270 520991**

<b>Designation</b>	<b>Recommendations</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
	Ford Hall Company - Clarifier Brush Service Contract	6,100		6,500	
Grit	Solid Waste / Recycle Waste Disposal	8,000		8,000	
	Wetwell Cleaning	7,000		5,000	
Admin	Recycle Disposal	800		800	
Cryo	Oxygen Purchase for Turnaround	7,000		10,000	
	Mixing & Maxx Transfer	0		0	
	Geen -- Cooling Water Conditioning Consultation	4,500		4,500	
UV	Recycle Fees	0		0	
		<hr/>		<hr/>	
				<b>\$33,400</b>	<b>\$34,800</b>

**Glenbard Wastewater Authority  
CY2016 Service Charge Budget  
270 521130**

Item	Recommendation	CY15 Budgeted	Total	CY16 Budgeting	Total
Service Charge	Village of Glen Ellyn -- Overhead fees	126,500		128,400	
		<hr/>			
			\$126,500		\$128,400
CY2016 Overhead fees at 1.48% CPI-U Chicago increase					

**Glenbard Wastewater Authority  
CY2016 Sludge Disposal - Land App. Budget  
270 521150**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Sludge Disposal	Stewart Spreading -- Trucking fees for Sludge Removal	180,000		170,000	
		<hr/>			
		<b>Total</b>	<b>\$180,000</b>		<b>\$170,000</b>

**Glenbard Wastewater Authority  
CY2016 Telecomm Budget  
270 521195**

<b>Recommendations</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Call One - Admin - 790-1901				
Main Phone Lines (1901, 1902, 1903, 1904)	64,000		18,000	
SCADA Dial-up Lines (0459, 0689, 2097)				
SCADA Pager/Redundant Pager (0958, 4487)				
SCADA Poling Network				
Office Private Lines (1960, 1974, 1975, 1995, 1996)				
ComEd Rider 27 Alarm (1486)				
Brokered Nat. Gas Meter Reader (0407)				
ADS Modem (1482)				
SCADA Poling Network				
AT&T - E-991-DID #'s	3,000		0	
AT&T DSL Ports/Primary ISP	1,400		0	
Comcast Internet - Primary ISP	0		2,000	
AT&T Internet - Secondary ISP (790-0390)	1,400		0	
Comcast DSL / Secondary ISP	0		2,400	
Verizon Cellular Service - Phones, tablets	5,800		5,000	
Verizon Cellular Service - RTU Radio Network	0		2,700	
Comcast - Cable Service	650		650	
		<b>\$76,250</b>		<b>\$30,750</b>

**In SY2014 a 25% increase  
was budgeted based on the FY2014 estimate  
minus the 33% for the stub year budget.**

**The \$76,250 budgeted in CY2015 is the 25% increase  
without the stub year 33% reduction.**

**The Cellular Remote Site Communication Project  
will reduce the surging monthly expenses  
for the landlines listed above.**

**Glenbard Wastewater Authority  
CY2016 Electrical Power Budget  
270 521201**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Electrical Power	Fees for Purchase of Electric Power & ComEd Delivery Services	630,000		700,000	
			<b>\$630,000</b>		<b>\$700,000</b>
	ComEd delivery charges increased in 2015 by 25%. This is not a fee that can be negotiated. The savings for 2016 will be noticed upon the completion of the Combined Heat and Power Project				

**Glenbard Wastewater Authority  
CY2016 Natural Gas - Brokered - Budget  
270 521202**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Nat. Gas - Brokered	Fees for Direct and Brokered purchase of Natural Gas	50,000		65,000	
			<b>\$50,000</b>		<b>\$65,000</b>
	CY2016 will show a reduction in natural gas costs when the Combined Heat and Power Project is completed.				

**Glenbard Wastewater Authority  
CY2015 Water Budget  
270 521203**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Water	Fees for Purchase of Potable Water - Village of Glen Ellyn	40,000		50,000	
		<hr/>		<hr/>	
				<b>\$40,000</b>	<b>\$50,000</b>

**Glenbard Wastewater Authority**  
**CY2016 Co-Gen Natural Gas Budget**  
**270 521204**

Item	Recommendation	CY15 Budgeted	Total	CY16 Budgeting	Total
Natural Gas	Fees for Purchase of Natural Gas (Co-Generation Unit)	5,000		6,000	
		<hr/>		<hr/>	
				<b>\$5,000</b>	<b>\$6,000</b>



**Glenbard Wastewater Authority  
CY2016 Office Supplies Budget  
270 530100**

<b>Item</b>	<b>Recommendation</b>	<b>SY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Office Supplies	Supplies for Administrative Management functions (I.e. Office Supplies, Federal Express, UPS, printer/fax, copier supplies, printing)	10,000		10,000	
	Minolta Bus. Sys. Support (copy machine)	5,000		5,000	
	Postage Meter Rental/Postage	2,000		2,000	
	Coffee Machine Services/Supplies	3,000		3,000	
	<b>Total</b>		<b>\$20,000</b>		<b>\$20,000</b>

**Glenbard Wastewater Authority  
CY2016 Laboratory Supplies Budget  
270 530106**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Laboratory Supplies	Laboratory Consumables and Glassware	16,000		20,000	
		<hr/>		<hr/>	
		<b>\$16,000</b>		<b>\$20,000</b>	

**Glenbard Wastewater Authority  
CY2016 Pretreatment Supplies Budget  
270 530107**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Pretreatment Supplies	Sampling, Dyes, Test Kits, Tools	0		1,000	
Linko Software Support	Annual Software License Fee	0		2,000	
		<hr/>		<hr/>	
		<b>\$0</b>		<b>\$3,000</b>	

**Glenbard Wastewater Authority  
CY2016 Administrative Purchasing Budget  
270 530200**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Administrative	Admin Vehicle Care	1,000		1,000	
Purchasing	Aerial Photography	1,000		1,000	
	Celebrating Success	1,000		1,000	
	Office Decorations	500		500	
<b>Total</b>			<u><b>\$3,500</b></u>		<u><b>\$3,500</b></u>

**Glenbard Wastewater Authority  
CY2016 Safety Budget  
270 530225**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Admin	Portable Gas Detection Meter Cal Gas	1,200		1,200	
	Portable Gas Detection Meter Repair/Replacement	5,000		2,500	
	Confined Space Equip. Repairs/Replacement	1,200		1,200	
	Safety shoes (\$150 max. allowance)	3,500		3,500	
	Cintas (First Aid Kit Supplies)	1,000		1,000	
	Safety Supplies	1,500		1,500	
	Safety Program Consultations & Training	3,000		3,000	
	Safety Suggestion Awards (monthly gift cards + Safety sug)	2,500		2,500	
	Site Safety and Signage	500		500	
	<b>Total</b>		<b>\$19,400</b>		<b>\$16,900</b>

**Glenbard Wastewater Authority  
CY2016 Chemical Supplies Budget  
270 530440**

<b>Item</b>	<b>Recommendation</b>	<b>CY15 Budgeted</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
Treatment Costs	Chemicals that are utilized through daily operation. Polymer, odor control, struvite control, acid wash, and odor control chemicals Odor Management -- Odor Chemicals High PSI - Sludgehammer - Press Bldg. Cleaning Polydyne - Polymer Schaners - Struvite Control	65,000		70,000	
			<b>\$65,000</b>		<b>\$70,000</b>

**Glenbard Wastewater Authority**  
**CY2016 Uniforms Budget**  
**270 530445**

Item	Recommendation	CY15 Budgeted	Total	CY16 Budgeting	Total
Uniforms	Uniform Replacements	7,000		5,000	
<b>Total</b>			<b>\$7,000</b>		<b>\$5,000</b>

**270-1**  
**STORMWATER PLANT**  
**and**  
**Hill AVENUE LIFT STATION**  
**O&M NARRATIVE**

The Glenbard Wastewater Authority Stormwater Plant is only utilized for operation during excess flow events. The Stormwater Plant is capable of processing 58 MGD of combined sewer flow.

The Hill Avenue Lift Station is also an integrated part of the Stormwater Plant. The lift station conveys flow to the plant as a result of flows greater than 2.5 times average daily flows through the Hill Avenue Regulator. The lift station only operates during wet weather events as part of the system that protects the Glenbard Plant from excessive high flow situations created in part by the combined sewers in the northern section of the Village of Lombard.



Budget CY2016

EXPENSES

Operations & Maintenance

Division 270-1

Stormwater Plant & Hill Avenue Lift Station

		Actual FY2014	Actual SY2014	Budgeted CY2015	Estimated CY2015	Budgeting CY2016
<b>Operations &amp; Maintenance</b>						
520775	Regulatory Fees	20,000	20,000	23,000	20,000	21,000
520970	Maint. - Bldgs. & Grnds. / Support	8,821	6,764	14,200	13,000	14,200
520975	Maint. - Equipment	1,428	22	5,400	750	3,100
520980	Maint. - Electronics	5,734	1,190	5,400	4,500	4,500
521201	Electric Power	38,610	18,199	20,000	34,000	30,000
521202	Natural Gas	3,988	1,664	3,000	4,500	3,500
521203	Water	3,875	2,435	4,000	1,000	3,500
530105	Operations / Support	1,024	680	1,700	1,000	1,700
<b>Commodities</b>						
530440	Chemicals	17,578	41,781	30,000	29,000	30,000
<b>Total 270-1</b>		<b>101,058</b>	<b>92,735</b>	<b>106,700</b>	<b>107,750</b>	<b>111,500</b>

**Glenbard Wastewater Authority**  
**CY2016 Budget - 270-1 - Stormwater Plant & Hill Avenue Lift Station**

	Item	Recommendations	CY15 Budgeting	Total	CY16 Budgeting	Total
520775	IEPA Regulatory Fees		23,000		21,000	
				<u>\$23,000</u>		<u>\$21,000</u>
520970	Building/Grounds	Misc. Repairs	2,500		2,500	
		Sidewalk Repairs	0		0	
	Bldg/Grnds - Support	Door/Lock/Window Repairs	450		450	
		Landscape Maintenance	9,000		9,000	
		Pest Control	100		100	
		Fire Extinguisher Service/Repairs	100		100	
		Tru-Green Chemlawn	750		750	
		Roof Inspection	300		300	
		Roof Repairs	500		500	
		Sidewalk Repairs	500		500	
				<u>\$14,200</u>		<u>\$14,200</u>
520975	Maintenance	Unanticipated Equipment Repairs	1,000		500	
		Hill Avenue Submersible Pump Service	1,500		1,000	
		Peristaltic Pump Replacement Hose	400		400	
	Equipment - Support	Unanticipated Equipment Repairs	500		200	
		Underground Locates	750		500	
		Hill Avenue Access Hatch Repair	500		0	
		RPZ Inspections	750		500	
				<u>\$5,400</u>		<u>\$3,100</u>

**Glenbard Wastewater Authority**  
**CY2016 Budget - 270-1 - Stormwater Plant & Hill Avenue Lift Station- (Continued)**

	<b>Item</b>	<b>Recommendations</b>	<b>CY15 Budgeting</b>	<b>Total</b>	<b>CY16 Budgeting</b>	<b>Total</b>
520980	Elect. Maintenance	Control Panel PM/Repairs	200		200	
		Electrical Distribution PM/Repairs	2,000		1,500	
		HVAC Equipment PM/Repairs	300		300	
		Instrumentation PM/Repairs	800		800	
		LAN PM/Repair	0		0	
		Lighting Equipment PM/Repairs	400		400	
		Motor PM/Repairs	500		500	
		Safety Equipment PM/Repairs	0		0	
		SCADA System PM/Repairs	1,000		500	
		Telecommunications PM/Repairs	200		300	
				<b>\$5,400</b>		<b>\$4,500</b>
521201	Electricity			<b>\$20,000</b>		<b>\$30,000</b>
521202	Natural Gas	Building Heaters		<b>\$3,000</b>		<b>\$3,500</b>
521203	Water	Hosing, Lab, Chlor/DeChlor carrying water		<b>\$4,000</b>		<b>\$3,500</b>
530105	Operations	Replacement Tools and Hose	1,000		1,000	
	Operations - Support	Refuse Removal	700		700	
				<b>\$1,700</b>		<b>\$1,700</b>
530440	Chemicals	Hypochlorite / Sodium Thiosulfate		<b>\$30,000</b>		<b>\$30,000</b>
<b>Total 270-1</b>				<b>\$106,700</b>		<b>\$111,500</b>

**270-2**  
**NORTH REGIONAL INTERCEPTOR**  
**and**  
**ST. CHARLES RD. LIFT STATION**  
**O&M NARRATIVE**

The North Regional Interceptor (NRI) begins at the St. Charles Lift Station located next to Ackerman Park in Glen Ellyn. An 18" diameter force main exits the lift station and runs east down St. Charles Road to the I-355 Tollway, where the sewer turns south and becomes a gravity sewer. From there the NRI runs south 4.5 miles to the Glenbard Plant. The diameter of the NRI changes from 18" to 66" as collection systems from both member Villages enter and add more flow. Glen Ellyn has five connections to the NRI and Lombard has four. Three of the Lombard connections are from combined sewers. The three combined sewers have "regulators" before they enter the NRI. The purpose of these regulators is to limit the amount of storm water that is treated at the Glenbard Plant. This is done by diverting any flow above 2.5 times the average dry weather flow to the Stormwater Plant. These regulators were converted to Vortex Regulators as part of the Stormwater Plant upgrade in 2002.

The St. Charles Road Lift Station receives flow from the Village of Glen Ellyn and the DuPage County sanitary sewer systems. Flows range from 2 million gallons per day (MGD) to 10 MGD due to Inflow and Infiltration (I&I). The new lift station has been designed to operate cost effectively at low and high flow conditions utilizing variable speed drives. These drives control the speed of the pumps versus the previous method of on/off cycling of the pumps. The lift station also has redundant back-up power provided by onsite generation.

**Budget CY2016**

**EXPENSES**

**Operations & Maintenance**

**270-2**

**NRI / St. Charles Road L.S.**

**Actual  
FY2014**

**Actual  
SY2014**

**Budgeted  
CY2015**

**Estimated  
CY2015**

**Budgeting  
CY2016**

<b>St. Charles Rd. Lift Station</b>						
520970 SC	Maint. - Bldg. & Grnds.	1,006	0	400	0	400
520975 SC	Maint - Equipment	1,873	0	13,250	1,500	8,000
520980 SC	Maint. - Electronics	2,854	374	4,800	500	3,600
521201 SC	Electric Power	12,127	8,018	11,000	17,000	15,000
<b>Total</b>		<b>17,860</b>	<b>8,392</b>	<b>29,450</b>	<b>19,000</b>	<b>27,000</b>
<b>North Regional Interceptor</b>						
520970 NRI	Maint. - Piping & Grnds.	0	0	550	0	500
<b>Total</b>		<b>0</b>	<b>0</b>	<b>550</b>	<b>0</b>	<b>500</b>
<b>Total 270-2</b>		<b>17,860</b>	<b>8,392</b>	<b>30,000</b>	<b>19,000</b>	<b>27,500</b>

**Glenbard Wastewater Authority  
CY2016 Budget - 270-2 NRI / St. Charles Rd. L.S.**

	Item	Recommendations	CY15 Budgeted	Total	CY16 Budgeting	Total
<b>St. Charles L.S.</b>						
520970 SC	Bldg and Grounds	Miscellaneous	150		150	
		Annual RPZ Certification	100		100	
		Annual Fire System Certification	150		150	
				<b>\$400</b>		<b>\$400</b>
520975 SC	Maint. Equip.	Misc Parts/Oils (Post Warranty)	500		500	
		Submersible Pumps Annual Maintenance	12,000		6,000	
		Generator Service	750		1,500	
				<b>\$13,250</b>		<b>\$8,000</b>
520980 SC	Maintenance Electronics	Control Panel PM/Repairs	200		200	
		Electrical Distribution PM/Repairs	600		500	
		HVAC Equipment PM/Repairs	200		200	
		Instrumentation PM/Repairs	600		500	
		Lighting Equipment PM/Repairs	100		100	
		Misc Spare Parts	2,000		1000	
		Motor PM/Repairs	200		200	
		SCADA System PM/Repairs	800		800	
		Telecommunications PM/Repairs	100		100	
				<b>\$4,800</b>		<b>\$3,600</b>
521201 SC	Electric Power		11,000		15,000	
				<b>\$11,000</b>		<b>\$15,000</b>
<b>NRI</b>						
520970 NRI	Maint Piping and Grounds	Misc. repairs to the exposed manholes	550		500	
		Cleaning & Televising Sewer	0		0	
				<b>550</b>		<b>\$500</b>
<b>Total 270-2</b>				<b>\$30,000</b>		<b>\$27,500</b>

**270-3**  
**SOUTH REGIONAL INTERCEPTOR**  
**and**  
**VALLEY VIEW LIFT STATION**  
**O&M NARRATIVE**

The South Regional Interceptor (SRI) begins at the Valley View Lift Station which conveys flow approximately 1.0 mile before it becomes a .5 mile gravity sewer that flows into the SRI Pump Station. Through the 1.5 miles the pipe diameter changes from 18" to 30" as three additional sewers enter the SRI. The SRI Pump Station pumps the wastewater a short distance to a junction chamber for the NRI, SRI and 22<sup>nd</sup> Street flow. The junction chamber combines the three (3) interceptor pipes and conveys the flow through a 60" sewer line to the Glenbard Plant. The wastewater in the SRI is exclusively from collection systems operated and maintained by Illinois-American Water, a private utility company regulated by the Illinois Commerce Commission. Glenbard provides wastewater treatment for Illinois-American Water, who pays a user charge for this service to the Village of Glen Ellyn. This responsibility was acquired by the Village of Glen Ellyn as the "Operating Agency" for the Glenbard Wastewater Authority per an Intergovernmental Agreement. This limits the partners of the Glenbard Wastewater Authority to the Village of Glen Ellyn and the Village of Lombard.

The Valley View Lift Station was completely rebuilt during short year 2014 and a portion of calendar year 2015. The project included building a new wet well, valve vault, emergency by-pass pumping capabilities, a new control building that includes a control room, a new generator, and a utility closet. The project also addressed stormwater retention, low cost site maintenance, and site security. The total project cost for the station was \$1,945,190 which is \$32,622 less than the bid award. This project was designed and built with budgeted Capital Improvements Funds.

## Budget CY2016

## EXPENSES

## Operations &amp; Maintenance

270-3

SRI / Valley View L.S.

Actual  
FY2014Actual  
SY2014Budgeted  
CY2015Estimated  
CY2015Budgeting  
CY2016

Valley View Lift Station						
520970 VV	Bldg. & Grnds. Support	879	0	0	0	0
520975 VV	Maint. - Equipment	724	2,655	1,300	5,000	1,300
520980 VV	Maint. - Electronics	437	0	1,700	500	1,000
521201 VV	Electric Power	9,807	2,348	10,000	5,700	7,000
Total		11,847	5,003	13,000	11,200	9,300
South Regional Interceptor						
520970	Maint. - Piping & Grnds.	0	0	500	0	500
Total		0	0	500	0	500
Total 270-3		11,847	5,003	13,500	11,200	9,800



**Glenbard Wastewater Authority**  
**CY2016 Budget - 270-3 - SRI / Valley View L.S.**

DESIGNATION	Item	Recommendation	CY15 Budgeting	Total	CY16 Budgeting	Total
Valley View Lift Station						
520970 VV	Bldg./Grnds - Support	Landscape Maintenance	0		0	
		Patten Generator Service	0		0	
				<u>\$0</u>		<u>\$0</u>
520975 VV	Maint. Equip.					
		Pump Parts- Engine Oils/Filters	1200		1,200	
		Seal Water Filters	100		100	
		Pump Maintenance	0		0	
		Generator Service	0		0	
				<u>\$1,300</u>		<u>\$1,300</u>
520980 VV	Maint, Electronics	Control Panel PM/Repairs	200		100	
		Electrical Distribution PM/Repairs	250		100	
		HVAC Equipment PM/Repairs	100		100	
		Instrumentation PM/Repairs	500		200	
		LAN PM/Repairs	100		100	
		Lighting Equipment PM/Repairs	100		100	
		Motor PM/Repairs	100		100	
		SCADA System PM/Repairs	250		100	
		Telecommunications PM/Repairs	100		100	
				<u>\$1,700</u>		<u>\$1,000</u>
521201 VV	Electricity					
				<u>\$10,000</u>		<u>\$7,000</u>
SRI						
520970 SRI	Maint Piping and Grounds	Misc. repairs to the exposed manholes	500		500	
		Cleaning & Televising Sewers	0		0	
				<u>\$500</u>		<u>\$500</u>
Total 270-3				<u>\$13,500</u>		<u>\$9,800</u>



GLENBARD WASTEWATER AUTHORITY FUND 40 CAPITAL PLAN

REVENUE in Thousands \$	Footnotes	CY(2015)	CY(2016)	CY(2017)	CY(2018)	CY(2019)	CY(2020)	CY(2021)	CY(2022)	CY(2023)	CY(2024)	CY(2025)	CY(2026)	CY(2027)	CY(2028)	CY(2029)
		Estimated	Budgeting	Planning	Planning	Planning	Planning	Planning	Planning	Planning	Planning	Planning	Planning	Planning	Planning	Planning
Proceeds from Borrowing	1	0	8000	8000	0	0	0	0	0	0	0	0	0	0	0	0
Investment Income		13	17	20	20	20	20	20	20	20	20	20	20	20	20	20
Glen Ellyn Conn Fees		20	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Lombard Conn Fees		7	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Tranfers in From Deleted Funds																
EnerNoc Demand Response Program	2	16	20													
Leachate Revenue	3	120	117	117	117	117	117	117	117	117	117	117	117	117	117	117
Fats Oil & Grease (FOG) / Industrial Waste			0													
Cell Tower Revenue	4	27	26	49	51	53	55	58	60	62	65	67	70	73	76	79
State Grant Revenue (CHP Engineering)	5	57	250	700												
Operating Surplus Transfers	6	245	0													
Pretreatment Fines		1														
Misc. Revenue		32	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Capital Fund Contribution - Glen Ellyn		1583	1601	1647	1684	1720	1756	1793	1829	1868	1914	1962	2011	2059	2108	2156
Capital Fund Contribution - Lombard		1684	1729	1753	1791	1830	1869	1907	1946	1987	2036	2088	2139	2191	2242	2294
Total Capital Fund Contribution	7	3267	3330	3400	3475	3550	3625	3700	3775	3855	3950	4050	4150	4250	4350	4450
TOTAL REVENUE		3805	11820	12346	3723	3800	3877	3955	4032	4114	4212	4314	4417	4520	4623	4726
EXPENSES in Thousands \$		CY(2015)	CY(2016)	CY(2017)	CY(2018)	CY(2019)	CY(2020)	CY(2021)	CY(2022)	CY(2023)	CY(2024)	CY(2025)	CY(2026)	CY(2027)	CY(2028)	CY(2029)
Debt Service Payments:		Estimated	Budgeting	Planning	Planning	Planning	Planning	Planning	Planning	Planning	Planning	Planning	Planning	Planning	Planning	Planning
CSO Project Debt Payment (P&I) -																
BIP Project Debt Payment (P&I)		190														
Ana Digester Project Debt Payment (P&I)	8	637	637	637	637	637	637	637	637	637	637	319				
Facility Improvement Project Debt Payment (P&I)	9				1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268
Debt Service Subtotal		827	637	637	1905	1905	1905	1905	1905	1905	1905	1587	1268	1268	1268	1268
Personnel																
Engineer/Assistant Director 80% Capital - 20% O&M	10															
Salary			83													
FICA			6													
IMRF			9													
Health			15													
Capital Improvements																
Rolling Stock	11	103	124	134	157	146	138	34	74	130	130	130	130	130	130	130
Small Capital Projects	12	30	110	100	100	100	100	100	100	100	100	100	100	100	100	100
Infrastructure Improvements	13	108	280	300	300	300	300	300	300	300	300	300	300	300	300	300
Administration Parking Lot Upgrade				300												
Administration Building Renovations	14		70													
Roof Replacements - Updated based on Repl. Schedule	15	0	284	65	84	0	0	0	0	0	0	0	0	0	0	0
Plant Equipment Rehabilitation	16	317	287	300	300	300	300	300	300	300	300	300	300	300	300	300
Cryo 5 Year Turnaround			100					100					125			
Facility Plan				120					150					175		
Anaerobic Digester Project																
Engineering Close Out																
Construction Close Out																
Valley View Lift Station																
Engineering		150														
Construction		1000														
DuPage River Salt Creek Work Group Project Assessment																
Assessment Cost for Watershed Projects	17	92	95	155	160	265	273	281	289							
GWA Admin Parking Lot Storm Drain Lining																
Engineering																
Construction																
Remote Site Communication																
Engineering																
Construction		75														
Screening, Grit, CSO-Grit HVAC Replacement																
Engineering		19														
Construction																
Facility Improvement Project	18															
Influent Pump Station Improvements, Natural Gas																
Sand Filter Upgrade, Non-Potable Water																
Engineering		660	710	710												
Construction (IEPA Loan)			6000	10000												
Digester Gas Recovery - Combined Heat & Power (CHP)	19															
Engineering		250	200													
Construction		2125	2075													
Sludge Lagoon Cleanout																
North Sludge Lagoon		233														
South Sludge Lagoon	20		200													
Chemical Phosphorus Removal																
Engineering																
Construction																
Hauled Wastes Receiving Phase 1	21								643							
Engineering			16	16												
Construction				240												
Property Acquisition 21W 518 Bemis Rd.		290														
Stormwater Plant Clarifier Improvement Project																
Construction																
Intermediate Pump Station Modifications																
Engineering				130												
Construction					1000											
Elect. Service, Backup & Redundancy Projects																
Engineering							106	106								
Construction								1631								
Biosolids Covered Storage																
Engineering									98	98	98					
Construction										1134	1134					
Biosolids Dewatering Equipment Replacement																
Engineering																
Construction												103	103	103		
Grit Building MCC Replacement													1191	1191		
Engineering																
Construction							29									
PLC Replacements							221									
Engineering																
Construction												107				
Stormwater Plant Barscreen Upgrade												827				
Engineering																
Construction												74	74			
Stormwater Plant Grit Collection Upgrade													1136			
Engineering																
Construction														192	192	
Project Total		5452	10664	12570	2101	1111	1217	3102	1954	2062	2062	1941	3459	2491	3982	830
IFT/DEBT SERVICES / PROJ TOTAL		6279	11301	13207	4006	3016	3122	5007	3859	3967	3967	3528	4727	3759	5250	2098
Cash on Hand 1/1		4509	2035	2554	1693	1410	2194	2949	1897	2070	2217	2462	3248	2938	3699	3072
Gain/Loss FY		(2474)	519	(861)	(283)	784	755	(1052)	173	147	245	786	(310)	761	(627)	2628
Cash on Hand 12/31		2035	2554	1693	1410	2194	2949	1897	2070	2217	2462	3248	2938	3699	3072	5700

Capital Fund Calcs 2 Percent Notations:

- ~ Extended Planning by 6 Years From 2023 to 2029
- ~ Biological Phosphorus Removal is not addressed
- ~ Seven Full Years of Two large Debt Payments CY18 through CY24
- ~ CY26 Will be the 11th Year of the DRSCWG Agreement. Phosphosurs may be required to be met at a 1.0 mg/L
- ~ Operational Surpluses added to revenue tracking addition of \$245,000 for CY2015
- ~ In Order to make 2% member contributions work the following Projects were removed from the plan
  - UNOX Deck Control Improvements - \$395,000
  - Final Unox Stage Modifications - \$234,000
  - O&M Manual Updates - \$380,000
  - Primary / Waste Activated Sludge Thickening Phases 2&3 - \$1,578,000
  - Cryo Building MCC and PLC Replacements - \$306,000
  - Site Lighting - \$253,000
  - Liquid Biosolids Storage Improvements - \$1,086,000

TOTAL PROJECT FINANCIAL REDUCTION = \$4,232,000



Budget CY2016  
Glenbard Treatment Facility  
Fund 40 Capital Plan  
Capital Projects Detail

		Estimated CY2015	Budgeting CY2016	
40	4803000	CELL TOWER REVENUE	27,000	26,000
40	430200	DCEO GRANT REVENUE (CHP ENGINEERING/ CONSTRUCTION )	57,000	650,000
40	430201	ICECF GRANT REVENUE		250,000
40	440600	CONNECTION FEES - GLEN ELLYN	20,000	25,000
40	440601	CONNECTION FEES - LOMBARD	7,000	25,000
40	450225	EQUIPMENT REPLACEMENT FUND		
40	450010	GLEN ELLYN - 48.08%	1,582,862	1,597,999
40	450015	LOMBARD - 51.92%	1,684,138	1,725,626
40	460100	INVESTMENT INCOME	13,000	17,000
40	480450	PROCEEDS FROM BORROWING	0	8,000,000
40	480600	ENERNOC DEMAND RESPONSE PROGRAM	16,000	20,000
40	480700	LEACHATE REVENUE	120,000	117,000
40	480800	PRETREATMENT FINES	1,000	1,000
40	489000	MISCELLANEOUS REVENUE	32,000	10,000
40	489500	OPERATING SURPLUS TRANSFERs	244,704	0
40	490000	TRANSFER IN FROM DELETED FUNDS	0	0
REVENUES TOTAL:		3,804,704	12,464,625	
PRINCIPAL & INTEREST:				
40	550050	IEPA CSO LOAN PRINCIPAL	0	0
40	550900	IEPA CSO LOAN INTEREST EXPENSE	0	0
40	550100	IEPA BIOSOLIDS LOAN PRINCIPAL	187,010	0
40	550950	IEPA BIOSOLIDS LOAN INT EXP	2,403	0
40	550110	IEPA DIGESTER PRINCIPAL	493,769	506,222
40	550960	IEPA DIGESTER INTEREST	143,232	130,780
PRINCIPAL & INTEREST TOTALS:		826,414	637,002	
CAPITAL OUTLAY				
40	560100	ENGINEER / ASSISTANT DIRECTOR CAPITAL PAYROLL	0	113,000
40	570155	ROLLING STOCK - VEHICLES	103,000	124,000
40	580120	SMALL CAPITAL PROJECTS	30,000	110,000
40	580140	INFRASTRUCTURE UPGRADES	108,000	280,000
40	580140 15001	ADMIN PARKING LOT UPGRADE	14,000	0
40	580140 15002	ADMIN BUILDING RENOVATIONS	0	70,000
40	580145	ROOF UPGRADES	0	284,000
40	580150	PLANT EQUIPMENT REHABILITATION	317,000	287,000
40	580150	CRYO 5 YEAR MAINTENANCE	0	100,000
40	580150 14004	WEST SCREW PUMP	0	0
40	580170	SCREW PUMP REHAB/REPLACEMENT	0	0
40	580180 14001	VALLEY VIEW L.S. CONSTRUCTION & ENGINEERING	1,220,000	0
40	580180 14002	STORMWATER PLANT CLARIFIER COLLECTOR REHAB	0	0
40	580180 14005	REMOTE SITE COMMUNICATION	75,000	0
40	580180 14006	SCREENING, GRIT, CSO GRIT HVAC IMPROVEMENT	19,000	0
40	580180 14007	FACILITY IMPROVEMENTS PLAN	660,000	6,710,000
40	580180 14008	CHEMICAL PHOSPHORUS REMOVAL	0	0
40	580180 14009	ADMIN PARKING LOT STORM DRAIN LINING	0	0
40	580180 14009	COMBINED HEAT AND POWER PROJECT	2,125,000	2,075,000
40	580180 14010	HAULED WASTE RECEIVING PHASE I	0	0
40	580180 14011	DUPAGE RIVER SALT CREEK WORKGROUP ASSESSMENT	92,000	95,000
40	580180 14012	ABANDONED SLUDGE LAGOON CLEAN OUT	233,000	200,000
40	580180 14013	INTERMEDIATE PUMP STATION MODIFICATIONS	0	50,000
40	580180 14014	NRI / PRAIRIE PATH BRIDGE PROJECT	200,000	0
40	580180 14015	PROPERTY ACQUISITION 21W 518 BEMIS RD.	290,000	0
40	580235	BIO SOLIDS ENGINEER SERVICES	0	0
40	580239	ANAEROBIC DIGESTER IMPROVEMENTS	0	0
40	580600	FACILITIES PLAN UPDATE	0	0
40				
40				
CAPITAL OUTLAY TOTALS:		5,486,000	10,385,000	
PRINCIPAL & INTEREST / CAPITAL OUTLAY TOTALS		6,312,414	11,022,002	

**CY2016  
FUND 40  
CAPITAL FOOTNOTES**

**(1) Proceeds From Borrowing (\$8,000,000):**

This line item depicts the borrowing needs for CY2016 necessary to fund the Facility Improvements Project (FIP). The total amount being requested to borrow between CY2016 and CY2017 is \$16,000,000. Between FY2014, SY2014 and CY2015 the Authority reduced the monthly debt payments by \$453,000/year as the CSO Project was paid in full in SY2014 and the Biosolids Project was paid in full in CY2015. The total estimated 15 year Debt payment to begin in CY2018 for the FIP is \$1,268,000.

**(2) EnerNoc Demand Response Program (\$20,000):**

The PJM Emergency Load Response Program enables the program participants to receive payment for being available to reduce or eliminate electricity consumption when the reliability of the electric grid is in jeopardy and voltage reductions and rolling brownouts are imminent. Being a part of this program makes us a part of the solution. It makes us a steward of electrical consumption since we are able to help reduce possible short comings to the electrical grid.

**(3) Leachate Revenue (\$117,000):**

Three (3) trucks a day at \$0.025/gallon will provide GWA with approximately \$117,000/year in additional revenue. The contract is a two (2) year deal beginning in SY2014 with a ninety (90) day out clause, and a 48 hour stop clause. If for any reason the leachate has any ill effects on the treatment process, Waste Management will halt all deliveries until the process recuperates.

**(4) Cell Tower Revenue (\$49,000):**

From and after the Commencement Date, GWA licenses to AT&T the use of a space in and/or on the Property, comprising not more than nine hundred square feet (900 sq. ft.) oriented in a roughly 20 foot x 45 foot area. GWA also granted to AT&T and its representatives the right of access to the Premises (and other necessary areas of the Property).

This License runs for five (5) years, plus three (3), five (5) year terms renewable at AT&T's option. The initial term begins on the Commencement Date. As used in the License, "term" means the initial term and any renewal term. The Agreement shall automatically renew upon the same terms and conditions unless AT&T notifies Licensor in

writing of AT&T's intention not to renew this Agreement at least sixty (60) days prior to the expiration of the existing term.

AT&T will pay GWA a license fee of approximately Twenty Eight Thousand Dollars (\$28,000) in CY2016. The license fee has been increased by the agreed upon four percent (4.0%) increase over the CY2015 figure.

As of CY2015 the Authority and the Village of Glen Ellyn are negotiating with TowerCo to build a new tower capable of accepting up to four carriers. Land Lease agreements with the Village of Glen Ellyn are anticipated to be approved at a board meeting in October. The Authority has estimated approximately \$21,600/year additional revenue for this lease in CY2016.

**(5) Grant Revenue (\$250,000):**

The Illinois Clean Energy Community Foundation (ICECF) \$250,000 grant is an incentive for installing biogas conditioning systems. The funding granted is fixed and not subject to a schedule and has been included as revenue in the CY2016 budget.

The Illinois Department of Commerce and Economic Opportunity (DCEO) offers the Public Sector a Combined Heat and Power Pilot (CHP) Program. The amount granted varies based on the capacity of the CHP (kW installed) and the cost of the project. The Authority has been confirmed to receive the \$702,000 grant as soon as the State of Illinois passes the budget. The grant will not be received until performance of the CHP's demonstrate the design intention of the project and the actual energy produced versus what was designed. Therefore I have not included this revenue in the CY2016 budget.

**(6) Operating Surplus Transfers (\$245,000):**

The EOC approved the audit reported SY2014 O&M surplus to be transferred to the Capital Fund 40 at the May 14, 2015 meeting.

**(7) Capital Fund Contributions (\$3,330,000):**

The Equipment Replacement Fund relies on dedicated contributions from both communities to support GWA capital expenses. Based on Facility Planning efforts during FY2013 and FY2014 the Equipment Replacement Fund 40 will be increased annually based on project demands for an estimated 20 years. The Capital contribution outlined for CY2016 and beyond has been established by incorporating an in house engineer that will help reduce some of the costs associated with the use of external consulting engineers for complete project oversight. The previous 20 year project costs incorporated an 18% figure for design, bidding and

construction services. This year the EOC and the Authority collectively reduced that 20 year figure to 13% which includes design and reduced bidding and construction services.

- (8) **Anaerobic Digester Improvement Project Debt Payment (\$637,000):** This is the principal and interest payment for the IEPA Loan utilized for the 2007-2013 installation of a new 80' digester at the Glenbard Plant. Also included in this project was some cleanup work from the BIP Project. The amount of the loan was \$7,543,026 to be paid back over fifteen (15) years at an interest rate of 2.5%. Substantial completion was awarded near the end of FY2011. Final Completion of the Anaerobic Digester Project was awarded in November 2013.
- (9) **Facility Improvements Project (FIP) Debt Payment \$1,268,000:** This is the estimated principal and interest payment for the IEPA Loan to be utilized for the project during the Calendar Years 2016-2017. The amount of the loan is anticipated to be in the vicinity of \$16,000,000 to be paid back over fifteen (15) years at an interest rate of 1.85%. Repayment of the loan is not anticipated to begin until CY2018.
- (10) **Engineer/Assistant Director (\$113,000):** This position has been approved by the Executive Oversight Committee and will serve as a position that will primarily work on Capital Improvement Projects. The 80/20 cost split between O&M and the Capital Fund helps to show some of the offsetting engineering costs used to lower the bidding and construction services portion of the projects within the Capital Fund 40.
- (11) **Rolling Stock (\$124,000):** This year GWA is planning on replacing our 13 year old trailer mounted vacuum unit, a four inch mobile trash pump, a mobile compressor/generator, utility cart, and a pretreatment/engineering administrative vehicle per the vehicle replacement schedule identified in the appendix of the CY2016 budget.
- (12) **Small Capital Improvements (\$110,000):** This cost center provides for small capital improvements. A few of the planned improvements for CY2016 are listed below:

SCADA Remote Site Communications Spare Parts	\$16,000
Traffic Loop Installation	\$10,000
CRAS Building Garage Overhead Door & Operator Replacement	\$10,000
Elevator Code Upgrades	\$10,000
Grinder Exchange Program	\$7,500

**(13) Infrastructure Improvements (\$280,000):**

This cost center provides for various infrastructure improvements throughout the GWA Facilities. A few of the planned projects for CY2016 are listed below:

Norchem Polymer Blending Unit Replacement	\$40,000
Pump & Metering Basement Actuator Replacement	\$40,000
Operational Database (Replacing Hach Wimms)	\$30,000
Dewatering MCC Room AHU Replacement	\$30,000
Digester Boiler Room Supply Fan/Duct Heater Replacement	\$30,000

**(14) Administration Building Renovations (\$70,000):**

The administration building requires updating to the main level bathrooms and laboratory. The lower level bathrooms, showers and locker rooms all need updating, as well as tuck pointing to the exterior of the Administration Building.

**(15) Roof Replacements (\$284,000):**

This year GWA will be replacing three roofs at the Glenbard Plant per the Roof Replacement Schedule in the appendix of the CY2016 budget.

**(16) Plant Equipment Rehabilitation (\$287,000):**

This cost center provides for various equipment rehabilitations throughout the GWA Facilities. The planned projects for CY2016 are listed below:

Unox Inlet Valve Replacement (Installed by GWA Maintenance Team)	\$187,000
Digester Cleaning	\$70,000
Clarifier Mechanism & Bridge Painting	\$30,000

**(17) DuPage River Salt Creek Work Group (\$95,000):**

The project initiatives that the East / West Branch DuPage River & Salt Creek watersheds are providing to the IEPA are imperative to the impacts of the nutrient standards relating to point source dischargers. The work group has been recognized by the IEPA as a leader in developing remediation to stream standards particularly relating to habitat improvements. The work group believes that stream remediation is the path to healthier streams and rivers versus the implementation of nutrient discharge limits for phosphorus and total nitrogen. Educating communities about chloride utilization, storm water best management practices, and the discontinued use of coal tar sealants have also been important functions provided by this group. The IEPA has granted the Authority with two permit cycles (10) years without impending NPDES limits for phosphorus. If the Authority fails to support the assessed fees as agreed

to per the commitment agreement with the DRSCWG we may be facing a phosphorus limit as low as .1 mg/l versus a 1.0 mg/l

**(18) Facility Improvements Project (\$6,710,000):**

The engineers estimate for this project is currently between \$13 to \$15 million dollars and focuses on the aging infrastructure of our Influent Pumping Station, Sand Filters and underground utility replacements of natural gas and non-potable water lines. The majority of all of these systems are approximately 17 years old with some of the components being original 1977 equipment. The most recent improvement to all of this was to the influent gates for the barscreen and raw pumping station which were replaced in the early 2000's. The main focus at the influent pumping station is to replace the Raw Pumps, Variable Frequency Drives, Motor Control Centers, and Hydraulic Actuators. The station will be updated with pumps that will be able to reduce impacts to the interceptor sewers during high flow events due to their high head loss suction capabilities. The Sand Filters are being replaced with what is called a disk filter in an effort to remove significant recycles flows, and mechanical maintenance demands. The UV system is out dated and parts are beginning to fail and become more and more difficult to find. The design for the Facility Improvements Project will be completed by the end of CY2015 with construction beginning in April 2016.

**(19) Digester Gas Recovery- Combined Heat and Power (CHP) (\$2,275,000):**

The CHP Project moved forward rapidly with the availability of grant funding from the Illinois Clean Energy Community Foundation (ICECF) for Biogas conditioning equipment and the Department of Commerce and Economic Opportunity (DCEO) for rest of the system. The Biogas from anaerobic digestion is used in the plant boilers to heat the digestion process or is flared. This project will be directly related to the cleaning and drying of the biogas for use in an engine specifically designed for this biogas as a green fuel. The engine will generate electricity that will supply the facility with approximately 1/3 of the electric demands. While the engine generator is producing power it will also create heat. The water used to cool the engine will be utilized to heat the digesters through a hot water loop and returning it to the engine at a cooler temperature ready to absorb more heat. This process will significantly reduce the natural gas use at the Authority. The payback estimates that were concluded during the Design portion of the Design Build contract ranged from 9 – 10 years within the middle case scenarios. The Guaranteed Maximum Price for the project was agreed to at \$4,004,000 which includes the grants. The range expressed was inclusive of boosting biogas production. The boosting of the biogas production is completed by accepting Fats Oils & Grease (FOG) at the Authority and pumping it directly into the digester which then



creates a lot more biogas. It is anticipated that the Authority will spend approximately \$2,375,000 on the CHP project in CY2015.

**(20) South Sludge Lagoon Clean Out (\$200,000):**

The Authority spent \$233,000 cleaning the 35 year old sludge out of the North sludge lagoon last year and would like to finish the South Lagoon this year. The available space for clean fill has saved both Villages and the Authority money by not having to pay CCDD and tipping fees for excavated materials hauled away from maintenance or contractual projects.

**(21) Fats Oil and Grease (FOG) Receiving Station (\$272,000)**

The initial project includes construction of a simple receiving station within the dewatering building. The tanks that will be utilized are Thickened Sludge Storage Tanks which will allow the plant to accept FOG and high strength waste and pump it slowly into the digesters. The receiving station could include monitoring/metering station to measure volumes of hauled wastes received with each load. This project is anticipated to be worked on simultaneously with the CHP as a means to create the boosted biogas needed to reduce the ROI.

**Glenbard Wastewater Authority  
CY2016 Small Capital Improvement  
40 580120**

<b>Designation</b>	<b>Recommendations</b>	<b>CY15 Budgeted</b>	<b>CY16 Budgeting</b>
Administrative Electronics	Office Furniture (Board Room Chairs, Desks)	10,000	0
	Software Upgrades (OS & Application)	5,000	5,000
	Dewatering Main Exhaust Fan Service	0	5,000
	SCADA/LAN UPS Replacement	15,000	0
	Workstation Replacements SCADA & LAN	10,000	5,000
	Scissor Lift Batteries/Service	1,000	0
	Website Development	0	5,000
	Generator Battery Replacement	0	7,000
	CRAS Building Garage Overhead Door & Operator Replacement	0	10,000
	Elevator Code Upgrades	0	10,000
	PLC/RTU Battery Replacements	0	2,000
	Grit Effluent Actuator Replacement	0	6,000
	SCADA Remote Sites Communication - Spare Parts	0	16,000
	Grinder Exchange Program	0	7,500
Glenbard Plant	Multiple Work Orders for Window Replacements Facility Wide	0	10,000
	Replace Muffle Furnace	8,000	0
	New West Gate Operator	20,000	0
	Traffic Loop Installation	10,000	10,000
Digester/Thickener	Moyno Pump Spare Rotar/Stator	0	10,000
CSO Plant	Grit and Main Building Window Replacements	0	10,000
Laboratory	Sampler Replacement	0	7,500
<b>Grand Total</b>		<b>\$79,000</b>	<b>\$126,000</b>

**Glenbard Wastewater Authority  
CY2016 Infrastructure Improvement  
40 580140**

<b>Designation</b>	<b>Recommendations</b>	<b>CY15 Budgeted</b>	<b>CY16 Budgeting</b>
Electronics	Dewatering MCC Room AHU Replacement	0	30,000
	Exit/Emergency Lighting Replacement	5,000	0
	Norchem Polymer Blending Unit Replacement	0	40,000
	Digester Boiler Room Supply Fan/Duct Heater Replacement	0	30,000
	Pump & Metering Basement Actuator Replacement	0	40,000
	Elevator Panel Upgrade (Fire Alarm Integration)	0	20,000
	Administration Building Renovations (ADA Upgrades and Interior Rehabilitation)	140,000	0
	Co-Gen Facility PLC Replacement	0	25,000
	Dewatering FACP Replacement & Relocation to Exterior Wall	0	25,000
	Operational Database (Replacing Hach Wimms)	0	30,000
Glenbard Plant	Door and Sidewalk Repairs	4,000	
	Utility Locator	0	20,000
	New West Gate Operator	20,000	20,000
Roads	Cryo Plant Atmospheric Vaporizer	0	0
	Admin Parking Upgrade	0	0
	Glenbard Entrance Road Shoulder Improvement (turn lane)	160,000	0
		50,000	0
<b>Grand Total</b>		<b>\$379,000</b>	<b>\$280,000</b>

**Glenbard Wastewater Authority  
CY2016 Plant Equipment Rehabilitation  
40 580150**

<b>Designation</b>	<b>Recommendations</b>	<b>CY15 Budgeted</b>	<b>CY16 Budgeting</b>
	Digester Cleaning	35,000	70,000
	Grinder Exchange	17,000	0
Unox	Inlet Valve Replacement	120,000	187,000
Digester/Thickener	Moyno Pump Spare Rotar/Stator	32,000	0
Intermediate Clarifiers	North and South Clarifier Bridge Painting	33,000	0
Gravity Thickener	Clarifier Mechanism and Bridge Painting	30,000	30,000
Sand Filter Building	Sandfilter Sand Replacement	30,000	0
CSO Plant	Grit and Main Building Window Replacements	10,000	0
Glenbard Plant	Multiple Work Orders for Window Replacements Facility Wide	10,000	0
<b>Grand Total</b>		<b>\$317,000</b>	<b>\$287,000</b>

9-16-15 Reduced this account by \$133,000

CY2016

**GLENBARD WASTEWATER AUTHORITY EQUIPMENT REPLACEMENT FUND**

<b>FUND 40</b>		<b>Actual FY14 Bdgt</b>	<b>Actual SY14 Bdgt</b>	<b>Approved CY15 Bdgt</b>	<b>Estimated CY15 Bdgt</b>	<b>Budgeting CY16 Bdgt</b>
5966	<b>Equipment Replacement Flow Split - Total = Half of the Whole</b>	<b>1,350,000</b>	<b>980,100</b>	<b>1,633,500</b>	<b>1,633,500</b>	<b>1,665,000</b>
	* Glen Ellyn Flow Split - 46.16%	642,600	459,667	766,112	766,112	768,564
	* Lombard Flow Split - 53.84%	707,400	520,433	867,389	867,388	896,436
	<b>Equipment Replacement Split in Equity - Total = Half of the Whole</b>	<b>1,350,000</b>	<b>980,100</b>	<b>1,633,500</b>	<b>1,633,500</b>	<b>1,665,000</b>
	Glen Ellyn Flow Split - 50%	675,000	490,050	816,750	816,750	832,500
	Lombard Flow Split - 50%	675,000	490,050	816,750	816,750	832,500
	<b>Total</b>	<b>2,700,000</b>	<b>1,960,200</b>	<b>3,267,001</b>	<b>3,267,000</b>	<b>3,330,000</b>

					<b>Total Contributions</b>	<b>Percentage by Contribution</b>
<b>Total Glen Ellyn Equipment Replacement Fund Contribution:</b>	<b>1,317,600</b>	<b>949,717</b>	<b>1,582,862</b>	<b>1,582,862</b>	<b>1,601,064</b>	<b>48.08%</b>
<b>Total Lombard Equipment Replacement Fund Contribution:</b>	<b>1,382,400</b>	<b>1,010,483</b>	<b>1,684,139</b>	<b>1,684,138</b>	<b>1,728,936</b>	<b>51.92%</b>

\* Indicates Current 5 Year Avg. Flow Split for CY2016

Original Fund 27 & 28 FY1986 through FY1997

Glenbard Wastewater Authority  
Equipment Replacement Fund

\* Fund 27 was defined as the Operation & Maintenance Account \* Fund 28 was defined as the Capital Account

Fiscal Year	Fund 27 Glenbard 84.6%		Total Budgeted Contribution	IFT Transfers to Fund 28	Glenbard Flowsplits	Fund 27 Stormwater 12%		IFT Transfers to Fund 28	Fund 27 NRI 2.1%		Total Budgeted Contribution	IFT Transfers to Fund 28	NRI Flowsplits	Fund 27 SRI 1.3%		IFT Transfers to Fund 28	Actual Contributions	Total to Fund 28	Fund 28 % Increase	Total Glen Ellyn	Total Lombard	Accumulated Funding
	Glen Ellyn	Lombard				Lombard			Glen Ellyn	Lombard				Glen Ellyn								
FY(1986)	\$ 28,027.13		\$ 28,027.13			\$ 3,975.48			\$ 238.00	\$ 458.00	\$ 696.00			\$ 430.68			\$ 33,129.29	0.00	0%	\$ 28,695.81	\$ 4,433.48	\$ -
FY(1987)	486,027.00		486,027.00			68,940.00			4,129.00	7,936.00	12,065.00			7,468.50			574,500.50	0.00	0%	497,624.50	76,876.00	-
FY(1988)	242,987.00	282,256.00	525,243.00	520,200.00		73,800.00		73,700.00	4,418.00	8,493.00	12,911.00	13,750.00		7,992.40	7,150.00		619,946.40	614,800.00	100%	255,397.40	364,549.00	614,800.00
FY(1989)	242,987.00	282,256.00	525,243.00	556,600.00		79,000.00		78,950.00	4,496.00	9,138.00	13,634.00	14,000.00		8,551.40	8,475.00		626,428.40	658,025.00	7%	256,034.40	370,394.00	1,272,825.00
FY(1990)	243,519.00	323,236.00	566,755.00	596,000.00	43.4/56.6	84,444.00		85,000.00	4,832.00	9,945.00	14,777.00	15,000.00	32.7/67.3	9,148.10	9,000.00		675,124.10	705,000.00	7%	257,499.10	417,625.00	1,977,825.00
FY(1991)	308,090.00	371,910.00	680,000.00	637,200.00	44/56	90,372.00		90,200.00	5,061.00	10,754.00	15,815.00	16,100.00	32/68	9,790.30	9,600.00		795,977.30	753,100.00	6%	322,941.30	473,036.00	2,730,925.00
FY(1992)	253,884.00	296,485.00	550,369.00	533,000.00	44/56	75,600.00		75,600.00	4,128.00	9,104.00	13,232.00	13,400.00	32/68	8,191.30	8,100.00		647,392.30	630,100.00	-20%	266,203.30	381,189.00	3,361,025.00
FY(1993)	256,274.00	268,331.00	524,605.00	560,192.00	45/55	79,500.00		79,400.00	4,380.00	9,524.00	13,904.00	14,000.00	32/68	8,607.20	8,500.00		626,616.20	662,092.00	5%	269,261.20	357,355.00	4,023,117.00
FY(1994)	265,659.00	341,029.00	606,688.00	588,000.00	45.2/54.8	83,400.00		83,400.00	4,736.00	9,859.00	14,595.00	14,700.00	32.5/67.6	9,035.00	8,900.00		713,718.00	695,000.00	5%	279,430.00	434,288.00	4,718,117.00
FY(1995)	243,431.00	348,656.00	592,087.00	617,600.00	46/54	87,600.00		87,600.00	5,212.00	10,118.00	15,330.00	15,500.00	34/66	9,490.00	9,300.00		704,507.00	730,000.00	5%	258,133.00	446,374.00	5,448,117.00
FY(1996)	256,157.00	335,727.00	591,884.00	648,500.00	44.5/55.5	92,000.00		92,000.00	5,312.00	10,785.00	16,097.00	16,200.00	33/67	9,964.50	9,800.00		709,945.50	766,500.00	5%	271,433.50	438,512.00	6,214,617.00
FY(1997)	278,157.00	369,235.00	647,392.00	681,000.00	42.92/57.08	96,600.00		96,200.00	5,692.00	11,213.00	16,905.00	17,100.00	31.21/68.79	10,465.00	9,800.00		771,362.00	804,100.00	5%	294,314.00	477,048.00	7,018,717.00
TOTALS	\$ 3,105,199.13	\$ 3,219,121.00	\$ 6,324,320.13	\$ 5,938,292.00		\$ 915,231.48		\$ 842,050.00	\$ 52,634.00	\$ 107,327.00	\$ 159,961.00	\$ 149,750.00		\$ 99,134.38	\$ 88,625.00		\$ 7,498,646.99	\$ 7,018,717.00		\$ 3,256,967.51	\$ 4,241,679.48	

Original Fund 40 FY1998 through FY2010

Fiscal Year	Glenbard 84.6%		Glenbard Flowsplits	Stormwater 12%	NRI 2.1%		NRI Flowsplits	SRI 1.3%	Actual Contributions	Percentage Increase	Total		Accumulated Funding
	Glen Ellyn	Lombard			Glen Ellyn	Lombard					Glen Ellyn	Lombard	
FY(1998)	\$ 237,362.00	\$ 476,938.00	44.48/55.52	\$ 101,400.00	\$ 5,733.00	\$ 12,012.00	32.31/67.69	\$ 10,985.00	\$ 845,000.00	5%	\$ 254,080.00	\$ 590,350.00	\$ 7,863,717.00
FY(1999)	331,337.00	418,463.00	44.19/55.81	106,440.00	6,190.00	12,437.00	33.23/66.77	11,531.00	887,000.00	5%	\$ 349,058.00	\$ 537,340.00	\$ 8,750,717.00
FY(2000)	401,631.00	491,876.00	43.10/56.90	126,720.00	7,236.00	14,940.00	32.63/67.37	13,728.00	1,056,000.00	16%	\$ 422,595.00	\$ 633,536.00	\$ 9,806,717.00
FY(2001)	516,247.00	632,245.00	44.95/55.06	161,300.00	9,416.00	18,808.00	33.36/66.64	17,472.21	1,344,016.00	21%	\$ 543,135.21	\$ 812,353.00	\$ 11,150,733.00
FY(2002)	608,349.00	698,803.00	46.54/53.46	185,411.00	10,477.00	21,970.00	32.29/67.71	20,086.26	1,545,097.00	13%	\$ 638,912.26	\$ 906,184.00	\$ 12,695,830.00
FY(2003)	674,746.00	814,429.00	45.31/54.69	211,230.00	11,958.00	25,007.00	32.35/67.65	22,883.30	1,760,254.00	12%	\$ 709,587.30	\$ 1,050,666.00	\$ 14,456,084.00
FY(2004)	718,811.00	816,454.00	46.82/53.18	217,770.00	12,996.00	25,114.00	34.10/65.9	23,591.54	1,814,734.00	3%	\$ 755,398.54	\$ 1,059,338.00	\$ 16,270,818.00
FY(2005)	786,524.00	849,663.00	47.87/52.13	233,000.00	15,297.00	25,483.00	37.51/62.49	25,244.62	1,941,894.00	7%	\$ 827,065.62	\$ 1,108,146.00	\$ 18,212,712.00
FY(2006)	849,633.00	908,422.00	48.328/51.672	249,400.00	17,075.00	26,559.00	39.133/60.867	27,011.75	2,077,827.00	7%	\$ 893,719.75	\$ 1,184,381.00	\$ 20,290,539.00
FY(2007)	821,398.00	870,602.00	48.546/51.454	240,000.00	16,588.00	25,412.00	39.496/60.504	26,000.00	2,000,000.00	-4%	\$ 863,986.00	\$ 1,136,014.00	\$ 22,290,539.00
FY(2008)	729,051.00	762,949.00	48.864/51.136	216,000.00	15,033.00	22,767.00	32.769/60.231	23,400.00	1,800,000.00	-11%	\$ 767,484.00	\$ 1,001,716.00	\$ 24,090,539.00
FY(2009)	746,126.32	776,674.00	48.997/51.003	216,000.00	14,895.00	22,905.00	39.405/60.595	23,400.00	1,800,000.00	0%	\$ 784,421.32	\$ 1,015,579.00	\$ 25,890,539.00
FY(2010)	826,237.44	865,762.56	48.832/51.168	264,000.00	16,634.31	26,059.32	37.954/62.046	26,000.00	2,000,000.00	10%	\$ 868,871.75	\$ 1,155,821.88	\$ 27,890,539.00
TOTALS	\$ 8,247,452.76	\$ 9,383,280.56		\$ 2,528,671.00	\$ 159,528.31	\$ 279,473.32		\$ 271,333.68	\$ 20,871,822.00		\$ 8,678,314.75	\$ 12,191,424.88	

Intermediate Capital Funding FY2011 through FY2013

Fiscal Year	Division 40 Glenbard	Division 41 Stormwater	Fund 42	Fund 43	Fund 44 St. Charles Rd	Fund 45 Valley View	Fund 46 SRI	Fund 47 Sunnyside	Actual Contributions	Percentage Increase	Total		Accumulated Funding
	Plant 66.7%	Plant 12%	NRI 6.9%	SRI 3.1%	L.S 6.7%	L.S 2%	L.S 2%	L.S .5%			Glen Ellyn	Lombard	
FY(2011)	1,467,400.00	264,000.00	151,800.00	68,200.00	147,400.00	45,100.00	45,100.00	11,000.00	2,200,000.00	9%	\$ 1,625,800.00	\$ 377,300.00	\$ 30,090,539.00
FY(2012)	1,467,400.00	264,000.00	151,800.00	68,200.00	147,400.00	45,100.00	45,100.00	11,000.00	2,200,000.00	0%	\$ 1,067,340	\$ 1,132,660	\$ 32,290,539.00
FY(2013)	1,600,800.00	288,000.00	165,600.00	74,400.00	160,800.00	49,200.00	49,200.00	12,000.00	2,400,000.00	8%	\$ 1,160,788	\$ 1,239,212	\$ 34,690,539.00
TOTALS	\$ 3,068,200.00	\$ 552,000.00	\$ 317,400.00	\$ 142,600.00	\$ 308,200.00	\$ 94,300.00	\$ 94,300.00	\$ 23,000.00	\$ 4,600,000.00		\$ 2,228,127.76	\$ 2,371,872.24	

Fund 40 FY2014 through CY2025

Fiscal Year	Glen Ellyn Split 50/50	Lombard Split 50/50	Split 1/2 Half of Actual	Glen Ellyn Split By Flow	Lombard Split By Flow	% Flow Split By Partner	Split 1/2 Half of Actual	Actual Contributions	Percentage Increase	Total Glen Ellyn	Total Lombard	Accumulated Funding
FY(2014)	675,000.00	675,000.00	1,350,000.00	642,600.00	707,400.00	47.60 / 52.40	1,350,000.00	2,700,000.00	11%	\$ 1,317,600.00	\$ 1,382,400.00	\$ 37,390,539.00
SY(2014)	490,050.00	490,050.00	980,100.00	459,666.90	520,433.10	46.90 / 53.10	980,100.00	1,960,200.00	-38%	\$ 949,716.90	\$ 1,010,483.10	\$ 39,350,739.00
CY(2015)	816,750.00	816,750.00	1,633,500.00	766,111.50	867,388.50	46.90 / 53.10	1,633,500.00	3,267,000.00	40%	\$ 1,582,861.50	\$ 1,684,138.50	\$ 42,617,739.00
CY(2016)*	832,500.00	832,500.00	1,665,000.00	768,564.00	896,436.00	46.16 / 53.84	1,665,000.00	3,330,000.00	2%	\$ 1,601,064.00	\$ 1,728,936.00	\$ 45,947,739.00
CY(2017)	850,000.00	850,000.00	1,700,000.00	797,300.00	902,700.00	46.90 / 53.10	1,700,000.00	3,400,000.00	2%	\$ 1,647,300.00	\$ 1,752,700.00	\$ 49,347,739.00
CY(2018)	868,750.00	868,750.00	1,737,500.00	814,887.50	922,612.50	46.90 / 53.10	1,737,500.00	3,475,000.00	2%	\$ 1,683,637.50	\$ 1,791,362.50	\$ 52,822,739.00
CY(2019)	887,500.00	887,500.00	1,775,000.00	832,475.00	942,525.00	46.90 / 53.10	1,775,000.00	3,550,000.00	2%	\$ 1,719,975.00	\$ 1,830,025.00	\$ 56,372,739.00
CY(2020)	906,250.00	906,250.00	1,812,500.00	850,062.50	962,437.50	46.90 / 53.10	1,812,500.00	3,625,000.00	2%	\$ 1,756,312.50	\$ 1,868,687.50	\$ 59,997,739.00
CY(2021)	925,000.00	925,000.00	1,850,000.00	867,650.00	982,350.00	46.90 / 53.10	1,850,000.00	3,700,000.00	2%	\$ 1,792,650.00	\$ 1,907,350.00	\$ 63,697,739.00
CY(2022)	943,750.00	943,750.00	1,887,500.00	885,237.50	1,002,262.50	46.90 / 53.10	1,887,500.00	3,775,000.00	2%	\$ 1,828,987.50	\$ 1,946,012.50	\$ 67,472,739.00
CY(2023)	963,750.00	963,750.00	1,927,500.00	903,997.50	1,023,502.50	46.90 / 53.10	1,927,500.00	3,855,000.00	2%	\$ 1,867,747.50	\$ 1,987,252.50	\$ 71,327,739.00
CY(2024)	987,500.00	987,500.00	1,975,000.00	926,275.00	1,048,725.00	46.90 / 53.10	1,975,000.00	3,950,000.00	2%	\$ 1,913,775.00	\$ 2,036,225.00	\$ 75,277,739.00
CY(2025)	1,012,500.00	1,012,500.00	2,025,000.00	949,725.00	1,075,275.00	46.90 / 53.10	2,025,000.00	4,050,000.00	2%	\$ 1,962,225.00	\$ 2,087,775.00	\$ 79,327,739.00
CY(2026)	1,037,500.00	1,037,500.00	2,075,000.00	973,175.00	1,101,825.00	46.90 / 53.10	2,075,000.00	4,150,000.00	2%	\$ 2,010,675.00	\$ 2,139,325.00	\$ 83,477,739.00
CY(2027)	1,062,500.00	1,062,500.00	2,125,000.00	996,625.00	1,128,375.00	46.90 / 53.10	2,125,000.00	4,250,000.00	2%	\$ 2,059,125.00	\$ 2,190,875.00	\$ 87,727,739.00
CY(2028)	1,087,500.00	1,087,500.00	2,175,000.00	1,020,075.00	1,154,925.00	46.90 / 53.10	2,175,000.00	4,350,000.00	2%	\$ 2,107,575.00	\$ 2,242,425.00	\$ 92,077,739.00
CY(2029)	1,112,500.00	1,112,500.00	2,225,000.00	1,043,525.00	1,181,475.00	46.90 / 53.10	2,225,000.00	4,450,000.00	2%	\$ 2,156,025.00	\$ 2,293,975.00	\$ 96,527,739.00
TOTALS	\$ 11,159,300.00	\$ 11,159,300.00		\$ 11,437,727.40	\$ 12,955,872.60			\$ 61,837,200.00		\$ 43,170,945.52	\$ 49,674,441.10	

### ***Comments Pertaining to the Historical Value of the Equipment Replacement Fund***

- ~ As a condition of Grant funding, the United States Environmental Protection Agency required that an equipment replacement fund be established. The purpose of the replacement fund is to be sure adequate funds are in place to replace equipment and make improvements as they are needed.
- ~ The 1985 Fred P. Johnson and Associates study recommended that a seven percent (7%) Sinking Fund be set up for equipment replacement. That meant that the fund would grow by seven percent (7%) each year. The Johnson study projected the Sinking Fund through FY 1991.
- ~ In FY1986 the O&M Sinking Fund was established with contributions being made to Fund 27, Glenbard Wastewater Authority Operations and Maintenance Fund.
- ~ In 1988 a new Fund was created based off of the Johnson Study recommendations. This was Fund 28, Glenbard Wastewater Authority Capital Equipment Replacement Fund. Fund 27 was the depository for Fund 28 with Inter Fund Transfers (IFT's) being the vehicle to transfer needed funds into Fund 28. The Equipment Replacement Fund spreadsheet illustrates the deposits, transfers, splits and accumulations of the money.
- ~ In FY1992, after analyzing likely FY1992 - FY1997 equipment replacement needs, Glenbard Staff and the Executive Oversight Committee concluded that a five percent (5%) sinking fund will be adequate. It took four fiscal years between FY1992 and FY1996 to return to the contribution level of 1991. The Sinking Fund is shown as growing by five percent (5%) from FY1992 - FY1999.
- ~ A Facility Plan developed in FY(1998) caused the Glenbard Staff and the Executive Oversight Committee to commit to increasing the Sinking Fund to the Fred Johnson calculated values by FY2004.
- ~ The Sinking Fund was re-evaluated during the FY2007 budget discussions with Village Managers and Finance Directors when it was decided to no longer follow the recommended seven percent (7%) annual increase, but to evaluate the contribution on an annual basis. The Managers agreed to return to the seven percent (7%) annual increase in FY2008.
- ~ The Sinking Fund was again evaluated during budget planning for FY2008 when the decision by Village Managers and Finance Directors moved the Authority away from dedicated annual contributions, but to evaluate the contribution annually. At this time Village Managers and Finance Directors agreed to reduce the annual contribution to the Sinking Fund. It took three fiscal years between FY2008 and FY2010 to return to the contribution level of FY2007.
- ~ FY2011 was the first year that the EOC agreed to change the budget format without an executed IGA. The change to the percentages regarding how the Regional Treatment System was constructed did nothing more than devalue the Glenbard Plant to create arbitrary funds and increase value in others.
- ~ FY 2013 is the third year the budget has been formatted without a supporting IGA. Both Village presidents agreed at the December 2011 EOC meeting that this would be the last budget formatted without a supporting IGA. If an agreeable funding mechanism cannot be achieved by November 2012 the budget will revert back to the 1998 IGA supporting the FY10 budget format.
- ~ Beginning with the FY2013 Facility Plan the Capital Equipment Replacement Fund shall be funded with a mandatory ten percent (10%) increase from fiscal year to fiscal year through the 10 year plan as agreed to by the EOC. The increase to the Fund for FY2014 is actually eleven percent (11%). With this figure the period between FY2000 & FY2014 averages seven percent (7%) contribution.
- ~ FY2014 The Capital Equipment Replacement Fund 40 is utilizing a unique revenue split approved by both partners. The revenue split shall divide the agreed contribution in half, of which the first half shall be split 50% between partners. The second half of the agreed contribution will be split by the flow utilized to calculate the partners payments. A single Capital Fund (40) shall be used to expense all projects with the approval of the Executive Oversight Committee.

**Glenbard Wastewater Authority**  
**Summary of Projected Future Debt Service Payments**  
**As of January 1, 2016**

	<b>Lombard CSO Upgrade</b>	<b>Biosolids Improvement Project</b>	<b>Digester Project</b>	<b>Facility Improvements Project</b>	<b>Total Debt Service</b>
FY05	36,805				36,805
FY06	73,610	186,758			260,368
FY07	73,610	373,516			447,126
FY08	73,610	373,516			447,126
FY09	73,610	373,516			447,126
FY10	73,610	378,826			452,436
FY11	73,610	378,826	520,945		973,381
FY12	73,610	378,826	550,771		1,003,207
FY13	73,610	378,826	588,173		1,040,609
FY14	73,610	378,826	595,749		1,048,185
SY14	36,805	378,826	297,874		713,505
CY15		189,413	637,001		826,414
CY16*			637,001		637,001
CY17			637,001		637,001
CY18			637,001	1,267,288	1,904,289
CY19			637,001	1,267,288	1,904,289
CY20			637,001	1,267,288	1,904,289
CY21			637,001	1,267,288	1,904,289
CY22			637,001	1,267,288	1,904,289
CY23			637,001	1,267,288	1,904,289
CY24			637,001	1,267,288	1,904,289
CY25			318,501	1,267,288	1,585,789
CY26				1,267,288	1,267,288
CY27				1,267,288	1,267,288
CY28				1,267,288	1,267,288
CY29				1,267,288	1,267,288
CY30				1,267,288	1,267,288
CY31				1,267,288	1,267,288
CY32				1,267,288	1,267,288
	<b>736,100</b>	<b>3,769,675</b>	<b>9,242,023</b>	<b>19,009,320</b>	<b>23,886,102</b>

**FINAL**

**FINAL**

**Final**

**Estimated**



Budget CY2016  
 Anaerobic Digester  
 Loan # L17-287400

Total Value of Loan (Principal + Interest): \$9,242,026.30

IEPA Loan - Payback Schedule  
 Current Amount Borrowed: \$7,543,076  
 Interest Rate: 2.5%

Fiscal Year	Due Date	Beginning Balance	Principal Payment	Interest Payment	Interest Rate %	Total Payment	Ending Balance
FY 2011	7/29/2010	\$7,167,105.82	\$179,436.51	\$81,035.93	2.50	\$260,472.44	\$6,987,669.31
	1/29/2011	\$6,987,669.31	\$181,679.47	\$78,792.97	2.50	\$260,472.44	\$6,805,989.84
FY 2012	7/29/2011	\$6,805,989.84	\$183,950.46	\$76,521.98	2.50	\$260,472.44	\$6,622,039.38
	1/29/2012	\$6,622,039.38	\$207,577.05	\$82,721.72	2.50	\$290,298.77	\$6,414,462.33
FY 2013	7/29/2012	\$6,575,454.33	\$210,171.76	\$80,127.01	2.50	\$290,298.77	\$6,365,282.57
	1/29/2013	\$6,365,282.57	\$218,352.18	\$79,522.32	2.50	\$297,874.50	\$6,146,930.39
FY 2014	7/29/2013	\$6,146,930.39	\$221,081.58	\$76,792.92	2.50	\$297,874.50	\$5,925,848.81
	1/29/2014	\$5,925,848.81	\$223,845.10	\$74,029.40	2.50	\$297,874.50	\$5,702,003.71
SY 2014	7/29/2014	\$6,077,402.76	\$226,643.16	\$71,231.34	2.50	\$297,874.50	\$5,850,759.60
CY 2015	1/29/2015	\$5,850,759.60	\$245,366.14	\$73,134.50	2.50	\$318,500.64	\$5,605,393.46
	7/29/2015	\$5,605,393.46	\$248,433.22	\$70,067.42	2.50	\$318,500.64	\$5,356,960.24
CY 2016*	1/29/2016	\$5,356,960.24	\$251,538.64	\$66,962.00	2.50	\$318,500.64	\$5,105,421.60
	7/29/2016	\$5,105,421.60	\$254,682.87	\$63,817.77	2.50	\$318,500.64	\$4,850,738.73
CY 2017	1/29/2017	\$4,850,738.73	\$257,866.41	\$60,634.23	2.50	\$318,500.64	\$4,592,872.32
	7/29/2017	\$4,592,872.32	\$261,089.74	\$57,410.90	2.50	\$318,500.64	\$4,331,782.58
CY 2018	1/29/2018	\$4,331,782.58	\$264,353.36	\$54,147.28	2.50	\$318,500.64	\$4,067,429.22
	7/29/2018	\$4,067,429.22	\$267,657.77	\$50,842.87	2.50	\$318,500.64	\$3,799,771.45
CY 2019	1/29/2019	\$3,799,771.45	\$271,003.50	\$47,497.14	2.50	\$318,500.64	\$3,528,767.95
	7/29/2019	\$3,528,767.95	\$274,391.04	\$44,109.60	2.50	\$318,500.64	\$3,254,376.91
CY 2020	1/29/2020	\$3,254,376.91	\$277,820.93	\$40,679.71	2.50	\$318,500.64	\$2,976,555.98
	7/29/2020	\$2,976,555.98	\$281,293.69	\$37,206.95	2.50	\$318,500.64	\$2,695,262.29
CY 2021	1/29/2021	\$2,695,262.29	\$284,809.86	\$33,690.78	2.50	\$318,500.64	\$2,410,452.43
	7/29/2021	\$2,410,452.43	\$288,369.98	\$30,130.66	2.50	\$318,500.64	\$2,122,082.45
CY 2022	1/29/2022	\$2,122,082.45	\$291,974.61	\$26,526.03	2.50	\$318,500.64	\$1,830,107.84
	7/29/2022	\$1,830,107.84	\$295,624.29	\$22,876.35	2.50	\$318,500.64	\$1,534,483.55
CY 2023	1/29/2023	\$1,534,483.55	\$299,319.60	\$19,181.04	2.50	\$318,500.64	\$1,235,163.95
	7/29/2023	\$1,235,163.95	\$303,061.09	\$15,439.55	2.50	\$318,500.64	\$932,102.86
CY 2024	1/29/2024	\$932,102.86	\$306,849.35	\$11,651.29	2.50	\$318,500.64	\$625,253.51
	7/29/2024	\$625,253.51	\$310,684.97	\$7,815.67	2.50	\$318,500.64	\$314,568.54
CY2025	1/29/2025	\$314,568.54	\$314,568.54	\$3,932.10	2.50	\$318,500.64	\$0.00
<b>Totals</b>			<b>\$7,703,496.87</b>	<b>\$1,538,529.43</b>		<b>\$9,242,026.30</b>	

The EOC awarded an Anaerobic Digester Engineering Services Contract on August 10, 2005, for the Anaerobic Digester Improvement Project. This projected payback schedule is included to cover the required funding.

**Position Classification**

	<b>Salary Range</b>	<b>FY 13</b>	<b>FY14</b>	<b>SY14</b>	<b>CY15</b>	<b>CY 16</b>
Executive Director	<b>S</b>	1	1	1	1	1
Engineering, Assistant Executive Director	<b>P</b>	0	0	0	0	1
Enviromental Resources Coordinator	<b>I</b>	0	0	1	1	1
Seasonal Admin Secretary - FTE = .25		1	1	1	1	1
Administrative Secretary	<b>F</b>	1	1	1	1	1
<b>Totals</b>		<b>3</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>5</b>
Operations Superintendent	<b>N</b>	1	1	1	1	1
Plant Operator I	<b>I</b>	2	2	3	3	2
Plant Operator II	<b>H</b>	0	0	0	0	0
Plant Operator III	<b>G</b>	0	0	0	0	0
Plant Operator IV	<b>F</b>	2	2	2	2	2
Operator-in-Training	<b>E</b>	0	0	0	0	0
Operator PT - FTE = 1.0	<b>E</b>	5	5	5	5	5
Wastewater Laboratory Technician	<b>I</b>	1	1	1	1	1
PT Laborer - FTE = .50	<b>D</b>	2	2	1	1	1
<b>Totals</b>		<b>13</b>	<b>13</b>	<b>13</b>	<b>13</b>	<b>12</b>
Mechanical Maintenance Superintendent	<b>N</b>	1	1	1	1	1
Maintenance Mechanic I	<b>I</b>	2	2	1	1	1
Maintenance Mechanic II	<b>G</b>	0	0	0	0	2
Maintenance Mechanic III	<b>F</b>	0	0	1	1	0
<b>Totals</b>		<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4</b>
Electrical Electronics Superintendent	<b>N</b>	1	1	1	1	1
Electronic Technician	<b>J</b>	1	1	1	1	1
Plant Electrician	<b>J</b>	1	1	1	1	1
<b>Totals</b>		<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Total Full Time Employees		14	14	16	16	16
Total PT/Seasonal Employees		8	8	7	7	7
Total Full Time Equivalent (FTE)		15.8	15.8	17.8	17.8	18.8

Glenbard Wastewater Authority  
Salary Schedule - January 1, 2016 through December 31, 2016

Range	Annualized			Hourly		
	Min	Mid	Max	Min	Mid	Max
CY16 Salary Schedule Adjustment = No Increase to Salary Ranges from CY15						
A	\$ 35,693	\$ 44,990	\$ 54,205	\$ 17.16	\$ 21.63	\$ 26.06
B	37,440	47,237	56,909	18.00	22.71	27.36
C	39,333	49,608	59,821	18.91	23.85	28.76
D	41,288	52,104	62,754	19.85	25.05	30.17
E	43,368	54,683	65,957	20.85	26.29	31.71
F	45,552	57,429	69,285	21.90	27.61	33.31
G	47,861	60,299	72,738	23.01	28.99	34.97
H	50,253	63,315	76,357	24.16	30.44	36.71
I	52,749	66,498	80,205	25.36	31.97	38.56
J	55,141	69,805	84,178	26.51	33.56	40.47
K	58,157	73,403	88,442	27.96	35.29	42.52
L	61,090	76,960	92,810	29.37	37.00	44.62
M	64,106	80,808	97,386	30.82	38.85	46.82
N	67,309	84,843	102,274	32.36	40.79	49.17
O	70,741	89,086	107,598	34.01	42.83	51.73
P	74,277	93,558	112,902	35.71	44.98	54.28
Q	77,917	98,218	118,414	37.46	47.22	56.93
R	81,890	103,147	124,467	39.37	49.59	59.84
S	85,966	108,326	130,686	41.33	52.08	62.83

TABLE 1. TOTAL WASTEWATER FLOWS AND PERCENTAGES FOR CY2016 BUDGET

	MONTH	TOTAL AREA METERS (MG)	GLEN ELLYN AREA (MG)	PERCENT OF TOTAL	LOMBARD AREA (MG)	PERCENT OF TOTAL
Y e a r  O n e	Jan-10	409.125	199.156	48.68%	209.969	51.32%
	Feb-10	296.162	145.246	49.04%	150.916	50.96%
	Mar-10	542.883	249.942	46.04%	292.941	53.96%
	Apr-10	406.316	188.428	46.37%	217.888	53.63%
	May-10	456.696	217.035	47.52%	239.661	52.48%
	Jun-10	570.984	256.903	44.99%	314.081	55.01%
	Jul-10	454.092	226.720	49.93%	227.372	50.07%
	Aug-10	485.227	240.563	49.58%	244.664	50.42%
	Sep-10	269.518	122.064	45.29%	147.454	54.71%
	Oct-10	227.589	107.105	47.06%	120.484	52.94%
	Nov-10	249.292	114.965	46.12%	134.327	53.88%
	Dec-10	288.979	138.183	47.82%	150.796	52.18%
Y e a r  T w o	Jan-11	285.300	142.660	50.00%	142.640	50.00%
	Feb-11	430.920	196.060	45.50%	234.860	54.50%
	Mar-11	527.500	245.450	46.53%	282.050	53.47%
	Apr-11	566.000	261.960	46.28%	304.040	53.72%
	May-11	476.910	225.060	47.19%	251.850	52.81%
	Jun-11	449.850	224.260	49.85%	225.590	50.15%
	Jul-11	341.000	165.980	48.67%	175.020	51.33%
	Aug-11	331.590	157.770	47.58%	173.820	52.42%
	Sep-11	259.180	119.150	45.97%	140.030	54.03%
	Oct-11	254.960	121.640	47.71%	133.320	52.29%
	Nov-11	328.590	150.590	45.83%	178.000	54.17%
	Dec-11	376.184	176.681	46.97%	199.503	53.03%
Y e a r  T h r e e	Jan-12	365.415	171.128	46.83%	194.287	53.17%
	Feb-12	316.518	152.713	48.25%	163.805	51.75%
	Mar-12	339.473	162.597	47.90%	176.876	52.10%
	Apr-12	269.939	130.528	48.35%	139.411	51.65%
	May-12	303.295	144.740	47.72%	158.555	52.28%
	Jun-12	221.502	106.729	48.18%	114.773	51.82%
	Jul-12	251.263	110.964	44.16%	140.299	55.84%
	Aug-12	232.703	104.770	45.02%	127.933	54.98%
	Sep-12	214.256	100.230	46.78%	114.026	53.22%
	Oct-12	248.615	112.922	45.42%	135.693	54.58%
	Nov-12	213.457	103.551	48.51%	109.906	51.49%
	Dec-12	267.340	124.430	46.54%	142.900	53.45%
Y e a r  F o u r	Jan-13	329.627	152.609	46.30%	177.018	53.70%
	Feb-13	384.706	172.768	44.91%	211.938	55.09%
	Mar-13	472.887	218.299	46.16%	254.588	53.84%
	Apr-13	619.351	303.384	48.98%	315.967	51.02%
	May-13	431.200	201.647	46.76%	229.553	53.24%
	Jun-13	361.166	162.553	45.01%	198.613	54.99%
	Jul-13	260.487	117.489	45.10%	142.998	54.90%
	Aug-13	228.944	99.808	43.59%	129.136	56.41%
	Sep-13	229.706	100.114	43.58%	129.592	56.42%
	Oct-13	258.677	108.512	41.95%	150.165	58.05%
	Nov-13	306.145	134.647	43.98%	171.498	56.02%
	Dec-13	277.820	125.681	45.24%	152.139	54.76%
Y e a r  F i v e	Jan-14	343.023	153.652	44.79%	189.371	55.21%
	Feb-14	316.547	138.954	43.90%	177.593	56.10%
	Mar-14	520.731	228.751	43.93%	291.98	56.07%
	Apr-14	441.06	201.787	45.75%	239.273	54.25%
	May-14	553.185	257.255	46.50%	295.93	53.50%
	Jun-14	495.398	218.982	45.11%	287.657	54.89%
	Jul-14	420.444	167.436	39.82%	253.008	60.18%
	Aug-14	318.223	134.549	42.28%	183.674	57.72%
	Sep-14	309.155	132.35	42.81%	176.805	57.19%
	Oct-14	266.988	115.666	43.32%	151.322	56.68%
	Nov-14	293.723	127.548	43.42%	166.175	56.58%
	Dec-14					
AVERAGE		355.387	164.293	46.16%	191.284	53.84%

# AVERAGED WASTEWATER FLOWS UTILIZED FOR CY2016 BUDGET

