

GLENBARD WASTEWATER AUTHORITY

Executive Oversight Committee

Agenda

September 8, 2016

7:30 a.m.

**Meeting will be held at the Glenbard Wastewater Plant
21 W 551 Bemis Rd, Glen Ellyn, IL**

1. Call to Order
2. Roll Call
3. Pledge of Allegiance
4. Public Comment
5. Consent Agenda – The following items are considered to be routine by the Executive Oversight Committee and will be approved with a single vote in the form listed below:

Motion the EOC to approve the following items including Payroll and Vouchers for the Month of August 2016 totaling \$265,756.08 (Trustee Clark)

- 5.1 Executive Oversight Committee Meeting Minutes:
 - August 18, 2016 EOC Meeting
- 5.2 Vouchers Previously Reviewed by Trustee Clark:
 - August 2016
- 5.3 Rejection of Bids Received on July 19, 2016 for a 2016 Utility Vehicle

The Authority's vehicle replacement schedule calls for the 2008 Bobcat Utility Vehicle (UTV) to be replaced in CY2016 with a budget of \$23,000. The Authority received bids for replacement of the UTV on July 19, 2016. Based on the needs of the Authority the UTV with options added would cost us approximately \$22,000. Due to the current concerns by the Village of Glen Ellyn regarding the available cash within Capital Improvement Plan (CIP) reserves, the Authority is requesting the EOC reject all bids and defer purchasing of this UTV until CY2017.

6. Discussion
 - 6.1 Facility Improvements Project Update (Asst. Dir./Civil Eng., Matt Streicher)
 - 6.2 Violation – FECAL Stormwater Facility (Ops Superintendent, Dave Goodalis)
 - 6.3 CY2017 budget discussion (workshop format)
 - 6.4 Pending Agenda Items

7. Other Business
 - 7.1 Nissen WEFTEC Flyer Identifying our CHP Project.
8. ***Next EOC Meeting*** – The next regularly scheduled EOC Meeting is set for ***Thursday, October 8, 2016 at 7:30 a.m. at the Glenbard Facility.***

August 2016 Directors Report



Table of Contents

- Process Review
- Key Performance Indicators
- O&M Expense Reporting
 - (August Finances Not Available at time of Packet Delivery)
- Capital Project Updates
- Environmental Resources Coordinator Report

NPDES Permit Violations



Glenbard Plant: *Current Record

1305 Days February 4, 2013 through August 31, 2016

Previous excursion free operating record:

1058 Days September 8, 2007 – April 10, 2010

Stormwater Facility:

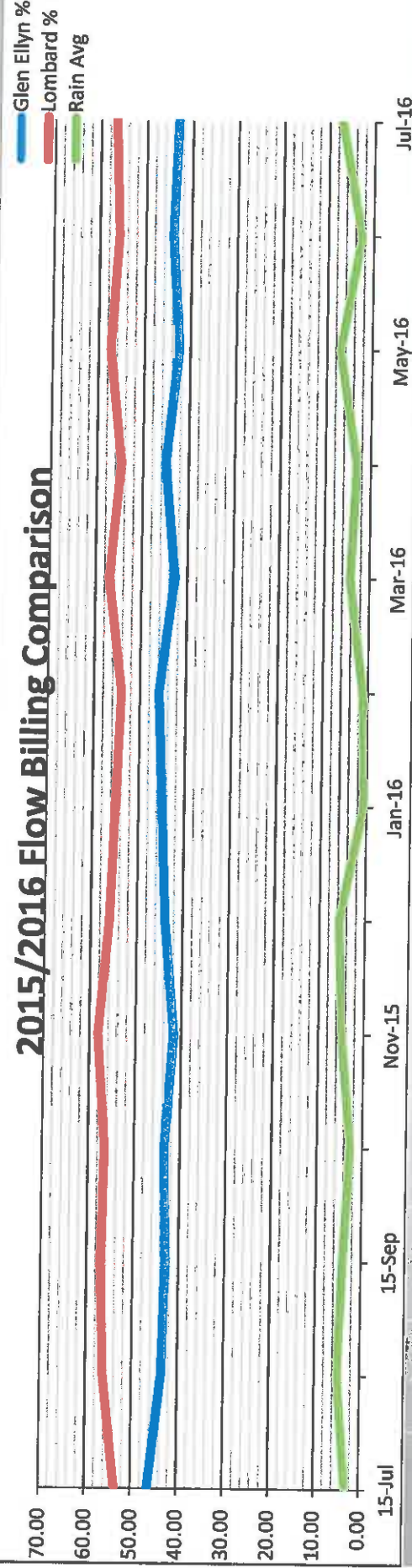
4 Days August 28, 2016 through August 31, 2016

Current excursion free operating record:

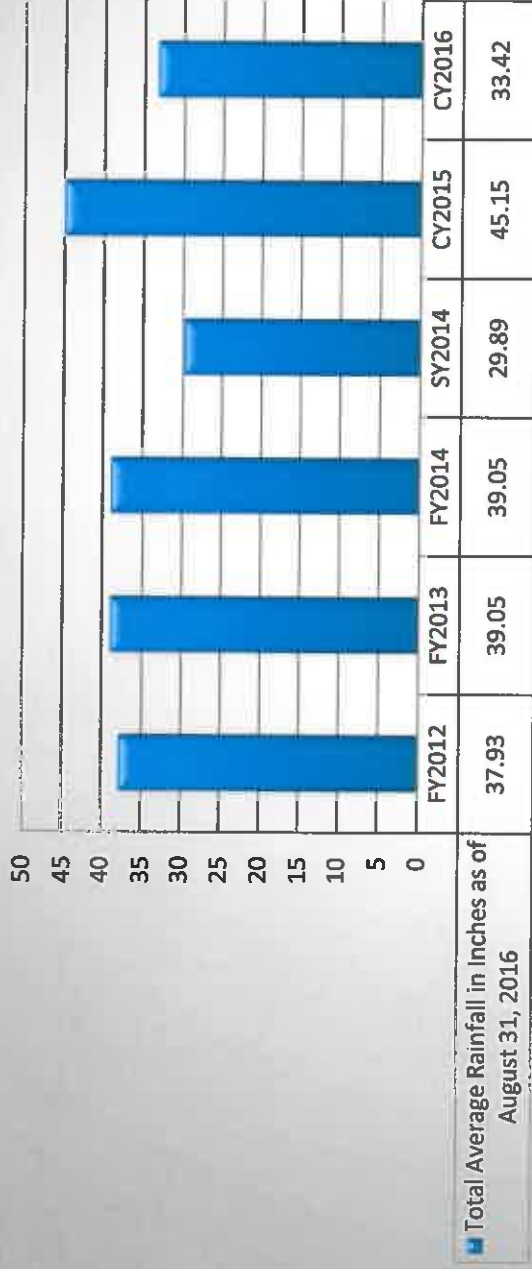
1140 Days July 11, 2009 through August 27, 2012



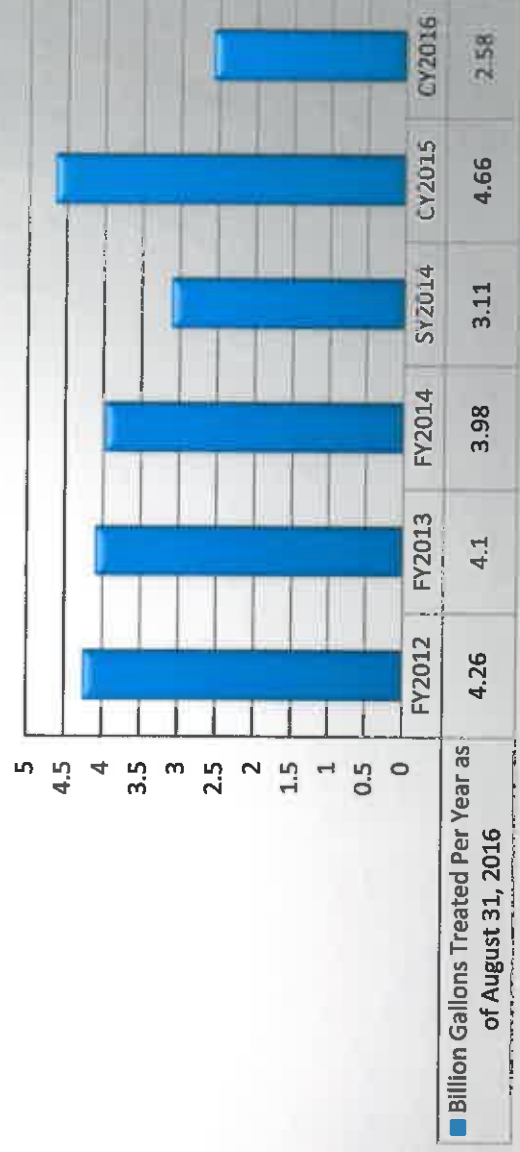
2015/2016 Flow Billing Comparison



Total Average Rainfall in Inches as of August 31, 2016



Billion Gallons Treated Per Year as of July 31, 2016 (Aug. Flows Not Available)





The Authority Key Performance Indicators Regarding Safety and Neighborhood Impacts

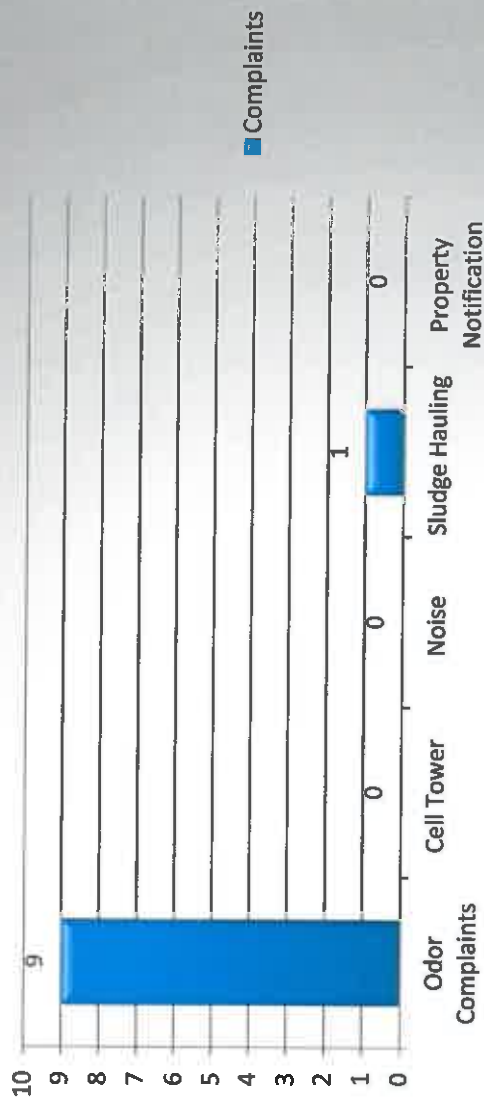
Injuries + Lost Time



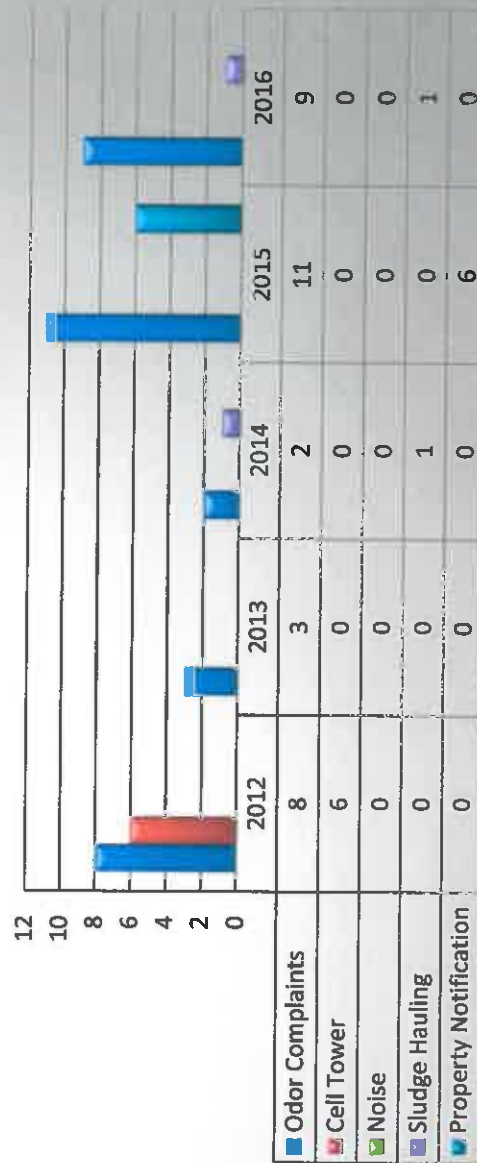
Years	2012	2013	2014	2015	2016
Injuries	1	1	0	0	0
Days Lost	0	26	0	0	0



August 2016 Complaints



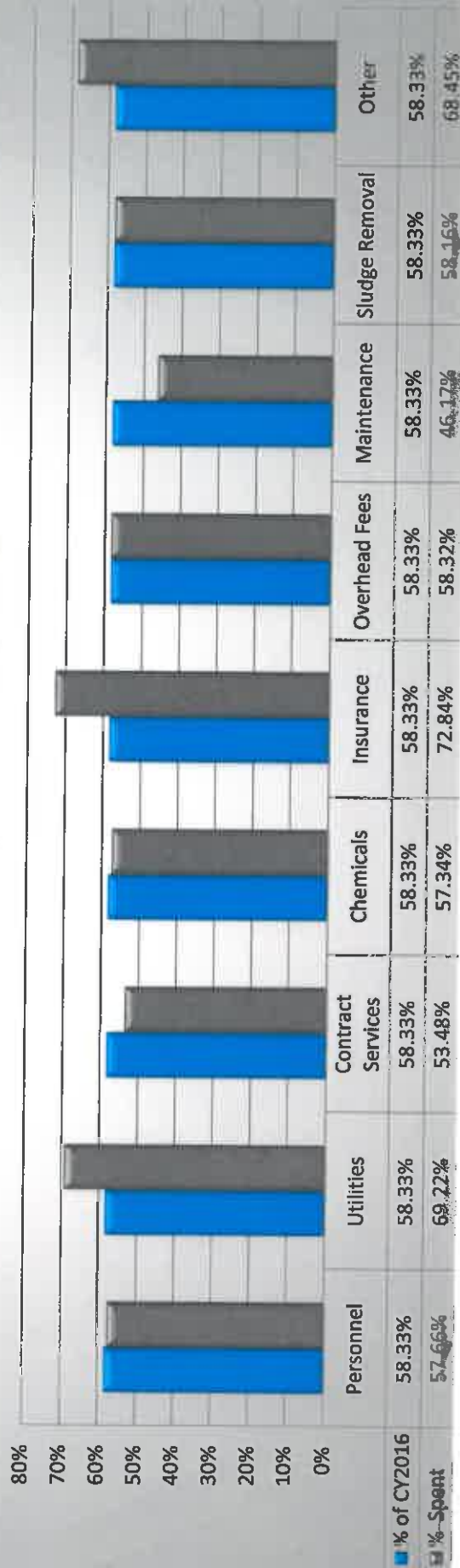
Annual Complaint Comparison



July O&M Expense \$ Reporting/ August Not Available at time of Packet delivery

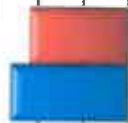


July O&M Expense % Reporting



\$18,000,000
 \$16,000,000
 \$14,000,000
 \$12,000,000
 \$10,000,000
 \$8,000,000
 \$6,000,000
 \$4,000,000
 \$2,000,000
 \$0

August 2016 Project Updates



	FIP Design Engineering	FIP Construction Engineering	FIP Construction	Combined Heat & Power (CHP)	Plant Equipment Rehabilitation	Infrastructure	Rolling Stock	Unox Valve
Project Budget Amount	\$1,106,835	\$706,000	\$16,725,000	\$5,278,824	\$287,000	\$280,000	\$124,000	\$344,000
Spent to Date	\$1,102,194	\$0	\$0	\$4,417,677	\$216,088	\$23,728	\$101,791	\$147,516

Facility Improvements Project Construction

Contract approval and Change order No. 001 was approved at the August EOC meeting. Critically awarding the contract and approving the reduction in material costs of the project in the amount of \$391,700. The new project cost for the Authority is \$16,333,300

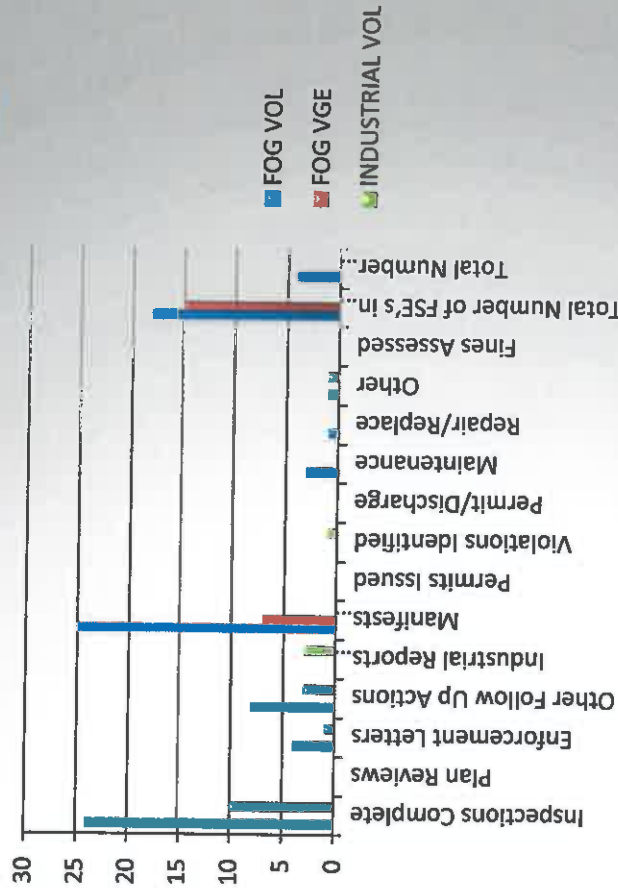
Combined Heat & Power (CHP)	Plant Equipment Rehabilitation	Infrastructure	Unox Valves	Rolling Stock
No invoices received during the month of August. Work continued, although it was sporadic most of the month. Pipe labelling is 95% complete, additional insulation was completed, work on the FOG station ramped up significantly with remainder of the mechanical work completed by the end of August. Start up and training of the waste receiving station will be completed during the month of September, with the first load of waste to be received during the first week of October.	No additional spending during August.	No additional spending during August.	The remaining two valves have been ordered.	Bids were opened for the Utility Vehicle with John Deere and polaris being the lowest responsive bidders. The Authority is requesting all bids be rejected due to budget constraints in the CIP. Estimated expense of the utility vehicle \$22,000 of a \$23,000 budget. Recommendation is to postpone purchase of one UTV until CY2017 when we will request the purchase of both UTV's. This will enable the Authority to replenish the CIP reserves and afford to purchase the UTV's during the first quarter of CY2017.

ENVIRONMENTAL RESOURCE COORDINATOR ACTIONS

August-16



	FOG VOL	FOG VGE	INDUSTRIAL VOL
Inspections Complete	24	0	10
Plan Reviews	-	-	-
Enforcement Letters	4	-	1
Other Follow Up Actions	8	-	3
Industrial Reports Reviewed	-	-	3
Manifests Reviewed/Logged	25	7	-
Permits Issued	-	-	-
Violations Identified	-	-	1
Permit/Discharge	-	-	-
Maintenance	3	-	-
Repair/Replace	1	-	-
Other	1	-	1
Fines Assessed	\$0	\$0	\$0
Total Number of FSE's in Major Non-Compliance (Repair/Replace/Install)	18	15	-
Total Number Replaced/Repaired	4	-	-



Comments:

- Reviewed all permit applications and certificate of occupancy applications in VOL and all of the business registration applications for VGE to keep data base up to date and for possible future inspections and/or inclusion in the pretreatment program.
- Responded to a backup at JT's Porch.
- Coordinated a meeting with Covanta a possible sources of high strength waste.
- Radiometrics was reviewed and placed on a reduced monitoring schedule based on monitoring results and flow. This will save the industry money without risk to GWA.

SECTION 5.0

CONSENT AGENDA

SECTION 5.1

MINUTES FROM THE AUGUST 18, 2016 MEETING

**GLENBARD WASTEWATER AUTHORITY
Executive Oversight Committee
Minutes
August 18, 2016
Meeting held at the Glenbard Wastewater Plant
21 W 551 Bemis Rd, Glen Ellyn, IL**

Members Present:

Keith Giagnorio	President, Village of Lombard
Mike Fugiel	Trustee, Village of Lombard
Dean Clark	Trustee, Village of Glen Ellyn
Scott Niehaus	Village Manager, Village of Lombard
Mark Franz	Village Manager, Village of Glen Ellyn
Carl Goldsmith	Public Works Director, Village of Lombard
Julius Hansen	Public Works Director, Village of Glen Ellyn

Others Present:

Erik Lanphier	Executive Director, GWA
Matthew Streicher	Engineer/Assistant Director, GWA
Rick Freeman	Electrical Superintendent, GWA
Jay Dahlberg	Maintenance Superintendent, GWA
David Goodalis	Operations Superintendent, GWA
Laurie Frieders	Environmental Resources Coordinator, GWA
Christina Coyle	Finance Director, Village of Glen Ellyn
Gayle Lendabarker	Administrative Secretary, GWA
Ryan Matzen	FIP Project Manager, Black and Veatch

1. Call to Order at 7:30 a.m.
2. Roll Call: President Giagnorio, Trustee Fugiel, Trustee Clark, Mr. Niehaus, Mr. Franz, Mr. Goldsmith and Mr. Hansen answered "Present". President Demos was excused.
3. Pledge of Allegiance
4. Public Comment
5. Consent Agenda - The following items are considered to be routine by the Executive Oversight Committee and will be approved with a single vote in the form listed below:

Motion the EOC to approve the following items including Payroll and Vouchers for the months of June totaling \$908,265.36. (Trustee Clark)

Mr. Franz motioned and Mr. Clark seconded the *MOTION that the following items on the Consent Agenda be approved. President Giagnorio, Mr. Fugiel, Mr. Clark, Mr. Niehaus, Mr. Franz, Mr. Goldsmith, and Mr. Hansen responded "Aye" during a roll vote. The motion carried.*

- 5.1 Executive Oversight Committee Meeting Minutes:
 - o July 14, 2016 EOC Meeting
- 5.2 Vouchers previously reviewed by Trustee Clark
 - o July 2016
- 6. Facilities Improvement Project Request for Contract Approval

At the EOC meeting held on April 14, 2016 the EOC approved the Intent to Award Boller Construction the \$16,725,000 Facility Improvements Project. As a result of the approval four stipulations had to be met before the contract could be signed and notice to proceed given. The primary requirement of the EOC's approval was the creation of a 2-3% contingency through value engineering. The Authority worked with Black & Veatch and Boller Construction to create a 2.3% material reduction without affecting the scope of the project. The Authority unintentionally created a 1.2% reduction on top of that by being delayed past July 1st on IEPA Loan approval. The delay brought us good fortune in that the interest rate on the SRF loan dropped from 1.86% to 1.75%. With the four stipulations of the EOC's intent to award completed, the Authority requests your approval of contract signature. The authorization for contract signature allows the Authority to proceed with requesting your approval for Change Order No. 001 and following up with presenting the contractor with their Notice to Proceed.

Motion the EOC to approve the signing of the Facilities Improvement Project Contract in the amount of \$16,725,000 with Boller Construction of Waukegan, IL

Mr. Niehaus motioned and Mr. Fugiel seconded the MOTION for the EOC to approve the signing of the Facilities Improvement Project Contract in the amount of \$16,725,000 with Boller Construction of Waukegan, IL. President Giagnorio, Mr. Fugiel, Mr. Clark, Mr. Niehaus, Mr. Franz, Mr. Goldsmith, and Mr. Hansen responded "Aye" during a roll vote. The motion carried.

Mr. Lanphier highlighted that the Notice of Intent to Award the FIP contract back in April 14, 2016 EOC Committee meeting came with four (4) stipulations. Mr. Lanphier indicated that all four (4) requirements had been met, and the formal contract award could proceed at this point in time.

- 7. Facility Improvements Project Request for Change Order Approval

At the EOC meeting held on April 14, 2016 the EOC approved the Intent to Award Boller Construction the \$16,725,000 Facility Improvements Project. As a result of the approval, four stipulations had to be met before the contract could be signed and notice to proceed given. The Facilities Improvement Project Construction Contract has been approved; therefore, the Authority requests that the EOC approve the Black & Veatch

value engineered reductions which have resulted in the creation of Change Order No. 001.

Change Order No. 001 includes the following:

- * Total Mechanical Deduct for Change Order No. 001 = \$281,700
- * Total Electrical Deduct for Change Order No. 001 = \$110,000

The total deduct change order amount of \$391,700 equates to a 2.3% reduction in contract price without changing the scope of the project. The new Facilities Improvement Project not to exceed amount is \$16,333,300. The EOC's approval will create the contingency required prior to providing the contractor the Notice to Proceed.

Motion the EOC to approve Change Order No. 001 of the Facilities Improvement Project Contract for the amount of \$391,700 as a deduction in contract price with Boller Construction of Waukegan, IL.

Mr. Fugiel motioned and Mr. Goldsmith seconded the MOTION for the EOC to approve Change Order No. 001 of the Facilities Improvement Project Contract for the amount of \$391,700 as a deduction in contract price with Boller Construction of Waukegan, IL. President Giagnorio, Mr. Fugiel, Mr. Clark, Mr. Niehaus, Mr. Franz, Mr. Goldsmith, and Mr. Hansen responded "Aye" during a roll vote. The motion carried

Mr. Lanphier highlighted the cost savings steps taken to reduce the overall contract price by \$391,700; thus creating the desired cost savings on the total contract.

8. Discussion

8.1 21W518 Bemis Rd.

Mr. Lanphier sought input from the EOC Committee members regarding future use of the referenced property, either to go down the route of finding a tenant or demolishing the structures and leave the property as green space. The demolition work would cost approximately \$15k-\$20k. While to the house would probably require approximately \$5k worth of expenses to prepare the house for a tenant.

Trustee Fugiel asked Mr. Lanphier what he sees as potential use for of the property in ten (10) years. Mr. Lanphier indicated that that could be a new administrative building, green space with part of the property used to improve line of sight for the turn from Sunnybrook onto Bemis Road or location of a new step in the treatment process if required by IEPA regulations in the future;

but cannot predict exactly what the future holds and would prefer to use the property to improve the traffic safety of the corner.

Mr. Goldsmith highlighted that if the property becomes a rental property, GWA would have to pay property taxes on the property.

Mr. Giagnorio asked for a consensus from the EOC Committee members with each indicating that demolishing the building would be the best approach at this time.

Mr. Niehaus suggested that the fire departments for both villages be given an opportunity to use the house for training purposes before any actual demolition work is done. Mr. Lanphier agreed.

8.2 Pending Agenda Items

9. Other Business

9.1 Tour of the CHP & Waste Receiving Station Facilities.

10. ***Next EOC Meeting*** – The next regularly scheduled EOC Meeting is set for ***Thursday, September 8, 2016 at 7:30 a.m. at the Glenbard Facility.***

Mr. Clark moved to adjourn the August 18, 2016 EOC Meeting and Mr. Niehaus seconded the MOTION. President Giagnorio, Trustee Fugiel, Mr. Clark, Mr. Niehaus, Mr. Franz, Mr. Goldsmith, and Mr. Hansen responded “Aye” during a roll vote. The motion carried. The meeting adjourned at 7:50 a.m.

Submitted by:

Gayle A. Lendabarker
GWA Administrative Secretary

SECTION 5.2


**VOUCHERS
AUGUST 2016**

* Employee deductions include contributions for pensions, health insurance, union dues and other employee directed deductions such as tax withholdings, 457 & 125 plan contributions and

SECTION 5.3

REJECTION OF BIDS – UTILITY VEHICLE

MEMORANDUM

TO: Executive Oversight Committee
FROM: Erik Lanphier, Executive Director 
DATE: September 2, 2016
RE: Utility Vehicle Bid Rejection Request



The Authority's vehicle replacement schedule calls for the 2008 Bobcat Utility Vehicle (UTV) to be replaced in CY2016 with a budget of \$23,000. The Authority received bids for replacement of the UTV on July 19, 2016. The bid tabulation sheet is attached for your reference. Based on the needs of the Authority the UTV, with options added, would cost us approximately \$22,000. Due to the current concerns by the Village of Glen Ellyn regarding the available cash within Capital Improvement Plan (CIP) reserves, the Authority is requesting the EOC reject all bids and defer purchasing of this UTV until CY2017. The vehicle replacement schedule calls for the replacement of our 2009 UTV vehicle in CY2017. Instead of offsetting the replacements this deferment provides us with the opportunity to solicit bids from the UTV resellers for two units instead of one, which may provide us with a pricing advantage.

Deferring this purchase will allow the cash reserves to recover from the large payments that were made during the CY2016 budget year for the Combined Heat and Power Project. The last payment for that project will be paid in October 2016. Since the Authority receives payments each month to the CIP from the member Villages, the reserves will replenish and the Authority will, by the end of CY2016, have a stable reserve. The intent of the Authority for the remainder of CY2016 is to only spend money from the CIP that is critical to the O&M of the facility or whatever money has previously been approved or committed.

The Authority requests that the EOC formally reject all Utility Vehicle bids received on July 19, 2016 due to CIP Fund 40 budgetary constraints.

GLENBARD WASTEWATER AUTHORITY

Bid Tabulation

Utility Vehicle Purchase

Bid Opening Date: July 19, 2016 at 10:00 a.m.

BIDDER	REPRESENTATIVE	EMAIL ADDRESS	PHONE	BOND	TOTAL PRICE
1 Shorewood Home & Auto - John Deere	Robert Deo	robert@ShorewoodHomeAndAuto.com	815-530-7522	Y	\$17,263.08
					Exemption - \$1,199
					Total After Exemption - \$18,462.08
2 Shorewood Home & Auto - Polaris	Robert Deo	robert@ShorewoodHomeAndAuto.com	815-530-7522	Y	\$18,074.46
					Exemptions - \$915.14
					Total After Exemption - \$18,989.6
3 Grower Equipment - Gavelly	Bill Beutel	growerreg@gmail.com	847-223-3100	Y	\$19,798.89
4 Halloran Power Equipment - Gravely	Jill Halloran	mowers2@msn.com	847-842-8035	Y	\$20,296.00
5 Atlas Bobcat - Bobcat	Todd Swartz	tswartz@atlashobcat.com	847-678-3633	Y	\$20,393.00

SECTION 6.0

DISCUSSION

SECTION 6.1

**FACILITY IMPROVEMENT
PROJECT UPDATE –
MATT STREICHER
(ASSIST. DIRECTOR/CIVIL
ENGINEER)**

SECTION 6.2

**FECAL VIOLATION – CSO
FACILITY –
DAVID GOODALIS
(OPERATIONS
SUPERINTENDENT)**

GLENBARD WASTEWATER AUTHORITY
NPDES PERMIT NON-COMPLIANCE REPORT
PERMIT NO. IL0021547

DATE OF VIOLATION: August 27, 2016

PARAMETER: Fecal Coliform

NPDES PERMIT LIMIT: 400 fecal coliform/100 ml

REPORTED RESULT: TNTC fecal coliform/100 ml

EFFLUENT FLOW: 1.6 MGD at time of grab sample

CONDITIONS: We experienced heavy rain (1.00 inches) in a very short duration of time (9 hours). The Lombard Storm water Facility came on line in automatic operation while the Operator in charge responded with three (3) pumps in service at full capacity. The Operator then went through all the prescribed procedures, making sure the Hypochlorite was on and then checked residuals.

INVESTIGATION: After verifying that all of process equipment was in automatic mode and working properly, it was verified the Operator in charge of taking the sample followed all procedure by monitoring the residual in both the excess tanks and at the effluent discharge point.

CONCLUSION: Results of our incident investigation showed the Operator did not have enough of a high chlorine dose to obtain a complete kill, because of the short duration of this event. Our stormwater plant went on line at full pumping capacity (58.0 MGD), and off line again within 2.50 hours. These conditions usually only happen during the summer months when it is dry weather and severe storms move though very quickly. This does not allow for sufficient reaction time to meet IEPA permit requirements.

ACTION PLAN: A meeting was held with the Operations Department where remedial procedure training was implemented regarding maintaining our Hypochlorite pumps at their maximum setting to achieve a high chlorine residual at the earliest time of discharge during such dry weather periods.

DATE: 8/31/16



David Goodalis, Operations Superintendent
Glenbard Wastewater Authority

SECTION 6.3

CY2017 BUDGET DISCUSSION (WORKSHOP FORMAT)

MEMORANDUM

TO: Executive Oversight Committee

FROM: Erik Lanphier, Executive Director

DATE: September 2, 2016

RE: Draft CY2017 Budget Highlights



As a means to help convey the significant budgetary impacts for CY2017 I will provide you with an outline of revenue and expenses that have the largest impacts on the budget.

Capital Fund 40

Revenues:

- * Lombard Connection Fees – 100k
 - o Significant project activity planned for the Village in 2017.
- * Waste Receiving Tipping Fees – 100k
 - o At \$0.05 per gallon delivered the Authority is being conservative with the annual figure budgeted.
- * CHP Grant – 500k
 - o The last remaining portion of the DCEO grant. Phase III is the performance based award portion of the three phased grant.

Expenses:

- * Property Acquisition – 290k
 - o Properties adjacent to the Authority's property have become available for purchase. If the properties are available in CY2017 the Authority would like authorization to purchase. We have only budgeted for one property however a second has come available and would like to know the EOC's position in regard to purchasing more property for our future benefit.
- * Cryo Plant Vaporizer Purchase or Lease – 100k
 - o Modification to existing 40-year old facility that will allow us to accept Liquid Oxygen instead of producing oxygen. The Authority is taking steps to better control our operation by ceasing operation of the Cryogenic Oxygen Facility at the end of CY2016 in lieu of trucking in Liquid Oxygen which will show a reduction in electricity, overtime, maintenance, water and chemical use.

- * Combined Heat & Power Biogas Storage – 350k
 - o As explained during the CHP design the Authority has a limited amount of gas storage available to us currently (February EOC). The addition of a low pressure gas storage tank next to the CHP process will allow us to store gas that is produced in excess of what we are currently using, which will afford us the ability to run continuously during those times that we may not be producing as much gas.
- * UV System Upgrade – 750k
 - o The Fisher & Porter UV system is 25-years old and has reached the end of its serviceable life. The UV system is a required process needed to meet our NPDES permit requirements. This system replaced one-ton chlorine gas cylinders in the early 1990's. Parts are becoming difficult to come by and failures are becoming more regular. The 2013 facility plan recommended replacement of this system during the FIP project. The Authority reviewed the cost to replace the system completely with a new system and the estimated total Capital cost in 2013 was \$2,400,000. The Authority must replace the lamps this year at a cost of approximately \$50,000. This replacement happens every 4 years or 10,000 hours. This cost will be borne by the Authority regardless of which direction we chose to go. This rehabilitation of the UV System can only be done by the proprietor of the system, Ironbrook UV of Ontario, Canada.
 - o Please look at <http://www.ironbrookuv.com/products.html#1> to see why we should stick with Ironbrook Partners as our supplier of an Ultraviolet Disinfection System. I have also been provided with many different municipal references that have already completed this upgrade versus buying new systems.

Operations & Maintenance 270

Expenses:

- * Salaries Regular – 57k
 - o Superintendents being reclassified as Exempt employees change salary ranges for their classification and the Assistant Director and Director. The increase for the Superintendents is a wash due to reductions in hourly overtime. The increases for the Assistant Director and Executive Director are harmonious with increasing the Superintendent salaries. All raises are able to be absorbed within the 3% wage pool the Village of Glen Ellyn has provided to us as a budgeting wage increase percentage.
- * Salaries Seasonal – 19k
 - o The Authority recommends hiring a new PT laborer with a 20 hour work week maximum. This employee will reduce the need for FT Maintenance and Operations staff from having to do remedial chores such as housekeeping, and tank wash downs.

- * Maintenance of Equipment – 95k
 - Most of the increase for this line item is oil and maintenance supplies for the CHP engines and the Co-Generation engines.
- * Electrical Reductions – (450k)
 - This reduction is not only due to the CHP project, but also due to the Cryogenic Oxygen Plant being shut down in lieu of hauling in Liquid Oxygen.
- * Liquid Oxygen – 375k
 - New line item for the O&M budget as the Authority is looking to take better control of the oxygen consumption needed by the biological process. Bringing in Liquid Oxygen will provide us with the means to reduce our oxygen flow to the biological process which allows us to control our costs of oxygen consumption.

The budget has an overall increase of 1.4% or \$103,862 over CY2016 budget. I have indicated on the Capital Fund 40 sheet projects that are forecasted in the 2013 facility plan, but do not have funding available into CY2029. I have also shown at the bottom of that sheet Cryo improvements that have been removed due to the change from production to delivery of the liquid oxygen.

Glenbard Wastewater Authority
 Budget CY2017
 All Funds
 Expense Allocation to Partners

APPROVED CY2016 EXPENSES ALLOCATED TO PARTNERS				
		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.				
TOTAL O&M BUDGET		2,247,551	1,926,949	4,174,500
CAPITAL EQUIPMENT REPLACEMENT FUND		1,728,936	1,601,064	3,330,000
TOTAL O&M AND CAPITAL BUDGETS		3,976,487	3,528,013	7,504,500
ESTIMATED ACTUAL CY2016 EXPENSES ALLOCATED TO PARTNERS				
		LOMBARD	GLEN ELLYN	TOTAL
Div. 270 -- Glenbard Plant / SRI L.S. / Sunnyside L.S.		2,203,779	1,889,421	4,093,200
270-1 -- Stormwater Plant / Hill Ave L.S.		52,279	44,821	97,100
270-2 -- North Reg. Int. / St. Charles Rd. L.S.		11,791	10,109	21,900
270-3 -- South Reg. Int. / Valley View L.S.		10,553	9,047	19,600
TOTAL O&M BUDGET		2,278,401	1,953,399	4,231,800
CAPITAL EQUIPMENT REPLACEMENT FUND		1,728,936	1,601,064	3,330,000
TOTAL O&M AND CAPITAL BUDGETS		4,007,337	3,554,463	7,561,800
CY2016 BUDGET OVER (UNDER)		30,850	26,450	57,300
PROPOSED CY2017 PARTNERS ALLOCATION				
		LOMBARD	GLEN ELLYN	TOTAL
Div. 270 -- Glenbard Plant / SRI L.S. / Sunnyside L.S.		2,304,078	1,904,284	4,208,362
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.				
TOTAL O&M BUDGET		2,304,078	1,904,284	4,208,362
CAPITAL EQUIPMENT REPLACEMENT FUND		1,780,750	1,619,250	3,400,000
TOTAL O&M AND CAPITAL BUDGETS		4,084,828	3,523,534	7,608,362
Proposed CY2017 Partners Allocation Compared to Approved Expenses Allocated to Partners CY2016:				
Operation & Maintenance	\$	\$56,527	(\$22,665)	\$33,862
	%	2.5%	-1.2%	0.8%
Capital Improvements	\$	\$51,814	\$18,186	\$70,000
	%	3.0%	1.1%	2.1%
Total O&M and Capital Budgets	\$	108,341	-4,479	103,862
	%	2.7%	-0.1%	1.4%

Glenbard Wastewater Authority Budget CY2017 Operations & Maintenance					
SUMMARY BY DIVISION					
Expense Allocation to Partners REVENUES	Actual CY2015	Budgeted CY2016	Estimated CY2016	Budgeting CY2017	Difference CY16-CY17
Div. 270 -- Glenbard Wastewater Authority	4,143,050	4,174,500	4,174,500	4,208,362	33,862
Interest O&M Fund	2,799	3,500	3,000	3,500	0
Miscellaneous Revenue	586	0	0	0	0
IRMA Reimbursement	5,829	0	0	0	0
Total Revenues	4,152,264	4,178,000	4,177,500	4,211,862	33,862
EXPENSES	Actual CY2015	Budgeted CY2016	Estimated CY2016	Budgeting CY2017	Difference CY16-CY17
Div. 270 -- Glenbard Plant / SRI L.S. / Sunnyside L.S.	3,856,445	4,029,200	4,093,200	4,054,312	25,112
270-1 -- Stormwater Plant / Hill Ave L.S.	112,590	111,500	97,100	115,450	3,950
270-2 -- North Reg. Int. / St. Charles Rd. L.S.	18,627	27,500	21,900	28,900	1,400
270-3 -- South Reg. Int. / Valley View L.S.	19,414	9,800	19,600	13,200	3,400
Total O&M Expense:	4,007,076	4,178,000	4,231,800	4,211,862	33,862
Village of Glen Ellyn O&M Expenditures	1,879,319	1,928,565	1,953,399	1,905,868	-22,697
Village of Lombard O&M Expenditures	2,127,757	2,249,435	2,278,401	2,305,994	56,559
Budget (Over) Under	145,188	0	(54,300)	0	0
Use of Available Cash					

Glenbard Wastewater Authority CY2016 Total Budget					
	Actual CY2015	Budgeted CY2016	Estimated CY2016	Budgeting CY2017	Difference CY16-CY17
Operations & Maintenance	\$4,007,076	\$4,178,000	\$4,231,800	\$4,211,862	\$33,862
Capital Costs (Expenses & Debt Repayment)	\$2,893,000	\$11,518,000	\$11,268,000	\$13,874,000	\$2,356,000
TOTAL	\$6,900,076	\$15,696,000	\$15,499,800	\$18,085,862	\$2,389,862

Budget CY2017**Operations & Maintenance****Division 270****Expense Allocation to Partners****REVENUE**

		Actual CY2015	Budgeted CY2016	Estimated CY2016	Budgeting CY2017	Difference CY16-CY17
Operation/Maintenance						
450010	Glen Ellyn Share - 45.25%	1,810,475	1,926,949	1,926,949	1,904,284	-22,665
450015	Lombard Share - 54.75%	2,190,426	2,247,551	2,247,551	2,304,078	56,527
	Partners Allocation	4,000,901	4,174,500	4,174,500	4,208,362	33,862
	Interst Income - O&M Fund	2,799	3,500	3,000	3,500	0
	Misc. Revenue	586	0	0	0	0
	IRMA Reimbursement	5,829	0	0	0	0
DIVISION 270		4,010,115	4,178,000	4,177,500	4,211,862	33,862

NOTE: The flow splits used to calculate partner payments for CY2017 are as follows:

Flow Split for Glen Ellyn:

45.25%

Flow Split for Lombard

54.75%

(for 5 yrs. Average ending 12/31/15)

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)

Budget CY2017
Operations and Maintenance
Division 270
Expense Allocation to Partners

Footnotes

EXPENSES

			Actual CY2015	Budgeted CY2016	Estimated CY2016	Budgeting CY2017	Difference CY16-CY17
Personnel Services							
510100	Salaries - Regular	1	1,213,405	1,246,000	1,270,000	1,303,000	57,000
510110	Salaries - Part-Time Ops.	2	36,593	53,000	37,000	40,000	(13,000)
510200	Salaries - Overtime	3	48,120	50,000	44,000	36,000	(14,000)
510300	Salaries - Temporary/Seasonal		20,426	25,000	15,000	44,000	19,000
510400	FICA		96,137	105,150	101,000	108,860	3,710
510500	IMRF	4	130,442	140,250	137,000	138,453	(1,797)
	Total		1,545,123	1,619,400	1,604,000	1,670,312	50,912
Contractual Services and Commodities							
520305	Employee Recognition		1,046	1,000	1,000	1,000	0
520600	Dues/Subs./Fees		12,567	12,500	12,500	15,600	3,100
520615	Recruiting/Testing		1,377	1,000	1,400	1,000	0
520620	Employee Education	5	14,974	24,300	20,000	19,000	(5,300)
520625	Travel (Mileage)		249	500	500	500	0
520700	Pro. Serv.-Legal	6	12,844	10,000	10,000	10,000	0
520750	Legal Notices		316	500	600	500	0
520775	Regulatory Fees		52,500	55,000	53,000	55,000	0
520776	DuPage River Salt Creek Work Group	7	28,591	30,000	30,000	31,000	1,000
520806	Pro. Serv.-Lab		26,692	30,000	33,000	30,000	0
520816	External Consulting Fees	8	6,804	20,000	45,000	20,000	0
520825	Audit Fees / Pro. Serv. - Acct.	9	10,500	13,500	11,000	13,900	400
520885	Insurance - Liability (MICA)	10	185,391	192,000	184,000	192,000	0
520895	Insurance - Health	11	214,154	230,800	227,000	236,000	5,200
520970	Maint. - Bldg. & Grds.		10,625	17,200	8,400	10,000	(7,200)
520971	Bldg. & Grounds - Support		40,553	58,050	38,000	60,600	2,550
520975	Maint. - Equipment		63,717	69,500	68,000	164,200	94,700
520976	Maint. - Support	12	71,252	59,000	65,000	45,100	(13,900)
520980	Maint. - Electronics		59,414	65,000	61,000	65,000	0
520981	Elect. - Support	13	144,228	195,700	199,000	213,300	17,600
520990	Operations - Supplies		5,579	5,900	2,500	14,400	8,500
520991	Operations - Support		13,584	34,800	18,000	19,500	(15,300)
521055	Professional Services - Other		3,039	0	1,500	2,000	2,000
521130	Overhead Fees	14	126,500	128,400	128,400	128,400	0
521150	Sludge Disposal - Land Applied	15	150,591	170,000	170,000	170,000	0
521195	Telecommunications		59,427	30,750	31,000	32,600	1,850
521201	Electric Power	16	760,826	700,000	783,000	250,000	(450,000)
521202	Natural Gas	17	58,924	65,000	84,000	45,000	(20,000)
521203	Water		51,733	45,000	56,000	20,000	(25,000)
521204	Self-Gen Gas		3,701	6,000	5,000	6,000	0
530100	Office Expenses		25,319	20,000	22,000	20,000	0
530106	Operating Supplies - Lab		9,722	20,000	15,000	15,000	(5,000)
530107	Pretreatment Expenses		64	3,000	1,000	2,000	(1,000)
530200	Administrative Purchases		1,688	3,500	1,500	3,500	0
530225	Safety		15,827	16,900	16,900	16,900	0
530440	Chemicals	18	64,206	70,000	80,000	75,000	5,000
530443	Liquid Oxygen	19	0	0	0	375,000	375,000
530445	Uniforms		5,835	5,000	5,000	5,000	0
	Total		2,314,361	2,409,800	2,489,200	2,384,000	-25,800
TOTAL DIVISION 270			3,859,484	4,029,200	4,093,200	4,054,312	25,112

**Glenbard Wastewater Authority
CY2017 Personnel Budget
Division 270 -- 510100-510500**

Item		Recommendations	CY16 Budgeted	CY17 Budgeting
510100	Salaries - Regular		1,246,000	1,303,000
510110	Part - Time Operations	1.0 Full Time Equivalent	53,000	40,000
510200	Laboratory Overtime		2,000	1,000
510200	Ops. Reg. Overtime		3,000	2,500
510200	High Flow Overtime		3,000	2,500
510200	Ops. Call-In Overtime		10,000	10,000
510200	Ops. SCADA Monitoring Overtime		20,000	16,000
510200	Maint. Regular Overtime		4,000	1,000
510200	Maint. Call-In Overtime		2,000	1,000
510200	Elec. Reg. Overtime		4,000	1,000
510200	Elec. Call-In Overtime		2,000	1,000
510300	Part Time Labor	1.0 Full Time Equivalent	25,000	44,000
			<hr/>	<hr/>
			Salaries Regular, PT Ops & Seasonal	1,324,000
			Salaries Overtime (3)	50,000
			<hr/>	<hr/>
			Salaries	1,374,000
				1,423,000
510400	FICA		105,111	108,860
510500	IMRF (4)		140,227	138,453
510600	State Unemployment Tax		0	0
			<hr/>	<hr/>
			Personnel Services	\$1,619,338
				\$1,670,312

Glenbard Wastewater Authority
CY2017 Recognition/Awards Budget
270 520305

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Recognition/Awards	Miscellaneous (Manager's Discretion)	1,000		1,000	
Total			\$1,000		\$1,000

Glenbard Wastewater Authority
CY2017 Dues/Fees/Subscriptions Budget
270 520600

Item	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Dues/Fees/Subs.	Water Environment Federation - Memberships	1,100		1,200	
	WEF - Publications	400		500	
	NACWA	5,000		5,600	
	IAWA	6,000		7,200	
	NFPA Membership	0		150	
	Lab Meeting Registrations	0		0	
	American Public Works Associaton - Memberships	0		150	
	Fox Valley Operators Association	0		300	
	Miscellaneous (Managers Discretion)	0		500	
			\$12,500		\$15,600

Glenbard Wastewater Authority
CY2017 Recruit/Test Budget
270 520615

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Recruiting/Testing	Chicago Tribune				
	Daily Herald	1000		1,000	
	Coply Newspapers				
	Liberty Publicatons (Glen Ellyn News)				
	WEF				
	OMNI - Employment Physicals				
		<hr/>		<hr/>	
			1000		1000

Glenbard Wastewater Authority
CY2017 Employee Training/Education Budget
270 520620

	CY16 Budgeted	CY17 Budgeting
Administration	Employee Education - Administration	
	WEFTEC --	2,5001,000
	CSWEA. IWEA, IAWA (Meetings/Conferences) - Lanphier, Streicher & Frieders	2,0003,500
	Lanphier	01,500
	Frieders	0500
	Streicher	01,500
	NACWA Pretreatment Conference - Frieders	01,000
	Database Training	3,0000
	College Reimbursement	3,5000
	IPSI - Illinois Public Sector Institute Training:	1,5000
	Frieders - Year 1 of 3 year training program	01,500
	Streicher - Year 1 of 3 year training program	01,500
Operations	Employee Education - Operations (5 Operators)	
	WEFTEC --	00
	Misc Tech Seminars	1,0001,000
	College Reimbursement	3,5000
	Cryo System Training	2,5002,500
	Central States WEA, IAWA State Conferences	1,0001,000
Maintenance	Employee Education - Maintenance	
	WEFTEC --	00
	Facilities Maintenance Show -- 4 Maint Mech (Chicago)	3000
	Maintenance Based Courses/Seminars (APWA Snow and Ice)	500500
	IPSI - Illinois Public Sector Institute Training	1,5000
	Misc Tech Seminars	5001,000
Electrical	Employee Education - Electrical	
	WEFTEC --	00
	IPSI - Illinois Public Sector Institute Training	00
	Facilities Maintenance, ISA Shows -- R. Freeman, P. Dziewior & J. Solita (Chicago)	500500

**Glenbard Wastewater Authority
CY2017 Mileage Reimbursement Budget
270 520625**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Travel	Travel for Seminars/Training Manufacturing Trade Shows I-Pass	500		500	
		<hr/>		<hr/>	
		\$500		\$500	

**Glenbard Wastewater Authority
CY2017 Pro. Svc. Legal Budget
270 520700**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Pro. Svc. Legal	Contracted Legal Assistance	10,000		10,000	
Total			\$10,000		\$10,000

Glenbard Wastewater Authority
CY2017 Legal Notices
270 520750

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Legal Notices	Chicago Tribune Daily Herald	500		500	
			\$500		\$500

**Glenbard Wastewater Authority
CY2017 Regulatory Fees
270 520775**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Glenbard Plant	IEPA Regulatory Fees associated with the NPDES permit and sludge disposal permit as legislated by State.	55,000		55,000	
			\$55,000		\$55,000

**Glenbard Wastewater Authority
CY2017 DuPage River Salt Creek Work Group Commitment
270 520776**

Recommendation		CY16 Budgeted	Total	CY17 Budgeting	Total
GWA	Workgroup Membership Dues	30,000		31,000	

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.

\$30,000

\$31,000

Glenbard Wastewater Authority
CY2017 Prof. Svc. Lab. Budget
270 520806

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Cont. Testing	Suburban Laboratories (Metals)	17,000		17,000	
	Additional Monthly Metals Testing	7,000		7,000	
	Additional Monthly Sludge Fecal Testing	6,000		6,000	
		<hr/>		<hr/>	
		\$30,000		\$30,000	

Glenbard Wastewater Authority
CY2017 Prof. Svc. Eng. Budget
270 520816

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Pro. Serv. Engr.	External Consulting Fees	20,000		20,000	
			<hr/> <hr/>		<hr/> <hr/>
			\$20,000		\$20,000

Glenbard Wastewater Authority
CY2017 Prof. Svc. Acct. Budget
270 520825

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Pro. Svc. Acct.	Contracted Audit/Acct. Fees	10,500		10,800	
	Single Audit -	3,000		3,100	
	If SRF Distributions Have Been Received				
			\$13,500		\$13,900

**Glenbard Wastewater Authority
CY2017 Ins-Liab Budget
270 520885**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Ins.-Liability	Fees for Workmans Comp Liability Coverage	128,000		128,000	
	Fees for Property Portion Liability Coverage	64,000		64,000	
			\$192,000		\$192,000

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

Total Liability Insurance Amount: \$192,000 is a 4% increase over estimated actual \$184,000 billed for CY2016

**Glenbard Wastewater Authority
CY2017 Health Insurance Fees Budget
270 520895**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Ins. - Health	Fees for Employee Health Insurance Coverage	230,800		236,000	
			\$230,800		\$236,000

Total Health Insurance amount reflects a 4% increase over estimated actual billed for CY2016

Increase includes the 20% of the Engineer/Assistant Director Position.

**Glenbard Wastewater Authority
CY2017 - Buildings and Grounds Budget
Maintenance
270 520970**

Description	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
GWA Building/Grounds	Janitorial Supplies for Custodians	2,500		2,000	
	Door/Lock/Misc Repairs	2,500		1,000	
	Bldg./Equipment. Painting Supplies (Non-Contract)	4,500		2,000	
	Misc. Repair Parts	1,000		1,000	
	Mulch	2,000		1,000	
	Planting Beds	1,200		1,000	
	Topsoil	3,500		2,000	
		<hr/>		<hr/>	
		\$17,200		\$10,000	

Glenbard Wastewater Authority
CY2017 - Buildings and Grounds - Support Budget
Maintenance
270 520971

DESIGNATION	RECOMMENDATIONS	CY16 Budgeted	Total	CY17 Budgeting	Total
Glenbard Plant	Roofing Systems Survey	4,500		4,500	
	Contractor Door/Lock Repairs	3,000		0	
	Spoil Removal	0		0	
	Shop Towel Service	1,600		2,100	
	Fire Extinguisher Service/Repairs	4,000		4,000	
	Elevator Services/Repairs	2,000		2,000	
	Elevator Press Tests	500		500	
	Elevator Inspections	250		300	
	Landscape Maintenance	16,000		18,000	
	Pest Control	700		700	
	Tru-Green Chemlawn - Turf/Shrub Disease Control	5,200		5,200	
	Contracted Window Repairs	2,000		2,000	
	Contracted Janitorial Service	15,000		18,000	
	Unanticipated Contracted Building/Grounds Repairs	2,300		2,300	
	Admin Window Cleaning Contract	1,000		1,000	
			\$58,050		\$60,600

Glenbard Wastewater Authority
CY2017 Equipment Maintenance Budget
270 520975

Building	Designation	CY16 Budgeted	CY17 Budgeting
A	Bar Screen	300	2,100
B	Raw Pump	1,200	900
C	Grit Removal	600	1,200
D	Primary Pump	1,100	1,500
E	Primary Scum	5,300	4,000
F	Unox	7,000	8,300
H	Screw Pump	4,900	7,000
I	Final Clarifiers	200	500
J	Pump & Metering	0	1,000
L	Sand Filter	1,100	700
N	Warehouse	2,200	500
T	CRAS	1,100	0
P	Press	9,800	3,800
Q	Cryo.	4,500	4,500
R	Administration	1,300	1,000
S	Maint. Garage	500	3,000
	Electrical Shop	100	3,200
U	Digester	1,900	3,000
V	Co-Gen	7,000	11,500
Y	Combined Heat and Power	0	86,000
Z	SRI Lift Station	0	3,000
	Miscellaneous	19,400	17,500
TOTAL		\$69,500	\$164,200

**Glenbard Wastewater Authority
CY2017 Equipment Maintenance Budget
Maintenance
270 520975**

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Bldg A - Bar Screen	Bar Screen/Rag Washer Wear Plates, Seals	300		1,900	
	Oil and Grease	0		200	
		<u>300</u>	\$300	<u>2,100</u>	\$2,100
Bldg B - Raw Pump	Oil and Grease	900		900	
	Wet Well Lid Rings (Plant Wide Usage)	300		0	
		<u>1,200</u>	\$1,200	<u>900</u>	\$900
Bldg C - Grit	Oil and Grease and Pump Seals	400		1,000	
	Blower Drive Belts	200		200	
		<u>600</u>	\$600	<u>1,200</u>	\$1,200
Bldg D - Primary Pump	Compressor Filters	100		300	
	Pump Parts	800		800	
	Oil and Grease	200		400	
		<u>1,100</u>	\$1,100	<u>1,500</u>	\$1,500
Bldg E - Primary Scum	Odor Control Parts	3,000		3,000	
	Pump Parts	2,000		500	
	Compressor Filters/Oil	300		500	
		<u>5,300</u>	\$5,300	<u>4,000</u>	\$4,000

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Bldg F - Unox	Unox Control System Parts/Misc. Parts	400		700	
	Emergency Repair Parts	3,000		3,000	
	Seal Antifreeze	300		300	
	Mixer Oil	3,300		4,300	
		<u> </u>	\$7,000	<u> </u>	\$8,300
Bldg H - Screw Pump	V-Belts	1,100		2,000	
	Grease	900		3,000	
	Drive Oil	600		2,000	
		<u> </u>	\$2,600	<u> </u>	\$7,000
Bldg I - Final Clarifiers	Grease	200		500	
		<u> </u>	\$200	<u> </u>	\$500
Bldg J - Pump and Metering	Pump Parts	0		1,000	
		<u> </u>	\$0	<u> </u>	\$1,000
Bldg L - Sand Filter	Valve Repair	500		500	
	Filter Sand Sieve Analysis	400		0	
	Oil Sep. Cartridge for Air System	200		200	
		<u> </u>	\$1,100	<u> </u>	\$700

Bldg N - Warehouse	Shelving Rehab	<u>2,200</u>	\$2,200	<u>500</u>	\$500
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Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Bldg P - Press	Press Belt Set (1)	9,000		0	
	Oil and Grease	0		1,500	
	Pump Parts	0		1,500	
	Press Seal	<u>800</u>		<u>800</u>	
			\$9,800		\$3,800
Bldg Q - Cryo	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	<u>500</u>		<u>500</u>	
			\$4,500		\$4,500
Bldg R - Admin	Lavatory Repair Parts	500		500	
	Washer/Dryer Parts	<u>800</u>		<u>500</u>	
			\$1,300		\$1,000

Bldg S - Maintenance Garage	Welding Supplies	500		3,000	
			\$500		\$3,000
Bldg T - CRAS/Electric Shop	Compressor Filters	100		100	
	Check Valve Parts	1,000		1,000	
	Filters	100		100	
	Pump Seals	0		2,000	
			\$1,200		\$3,200
Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Bldg U - Digester	Boiler Parts / Cleaning	900		1,000	
	Oil and Belts	1,000		2,000	
			\$1,900		\$3,000
Bldg V - Co-Gen	Coolant (Due in 2017)	0		7,000	
	Oil (Due in 2018)	0		0	
	Filters (Air/Oil)	1,200		1,500	
	Gauges	0		2,000	
	Miscellaneous (Plugs, Coils, etc.)	0		1,000	
			\$1,200		\$11,500
Bldg Y - CHP	300 Hour Service Interval (23 Intervals per engine)			46,000	
	1200 Hour Service Interval (6 Intervals per engine)			24,000	
	7500 Hour Service Interval (1 Interval per engine)			6,000	
	Recommended Spare Parts			10,000	
			\$0		\$86,000
Bldg Z - SRI	Pump Parts/Seals			3,000	
			\$0		\$3,000

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
GWA Facilities	Misc. Supplies				
	Paints/Supplies	2,000		500	
	Replacement Tools	1,500		3,000	
	Oil Analysis	800		1,000	
	Radio Repair/Batteries	1,500		500	
	Hardware -- Bolts/Nuts/Drills/Taps	3,600		4,000	
	Parts Repair Shipping Costs (Freight)	2,000		500	
	Portable Pump Hose Replacements	1,400		500	
	Vacuum Hose Replacment	1,300		500	
	Hardware -- PVC Piping	400		2,000	
	Hardware -- Galvanized Piping	800		2,000	
	Misc. Valves/Repair Clamps	1,200		1,000	
	Manhole Repair Parts	1,000		500	
	Unanticipated Equipment Repair Parts	<u>1,900</u>		<u>1,500</u>	
			\$19,400		\$17,500
TOTAL			\$61,400		\$164,200

Glenbard Wastewater Authority
CY2017 Equipment Maintenance - Support Budget
270-520976

Building	Designation	CY16 Budgeted	CY17 Budgeting
Q	Cryogenics - Annual Maintenance	0	0
R	Administration	400	500
S	Maint. Garage	3,300	3,800
T	CRAS/Electric Shop	1,000	0
U	Digester	2,400	0
V	Co-Gen	100	0
	Intermediate Clarifiers	200	0
Y	Combined Heat & Power	0	4000
	Miscellaneous	9,500	16,800
	Vehicle Maintenance (Village)	42,100	20,000
		<hr/>	
	TOTAL	\$59,000	\$45,100

**Glenbard Wastewater Authority
CY2017 Equipment Maintenance - Support
Maintenance
270-520976**

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Bldg Q - Cryo	Routine Annual Maintenance Turnaround	<u>0</u>	\$0	<u>0</u>	\$0
Bldg R - Administration	Washer/Dryer Chemicals	<u>400</u>	\$400	<u>500</u>	\$500
Bldg S - Maintenance Garage	Safety Klean Parts Service	2,500		2,500	
	Torch Gas Cylinder Lease	300		800	
	Miscellaneous	<u>500</u>	\$3,300	<u>500</u>	\$3,800
Bldg T - CRAS/Electrical Shop	Boiler Repairs	200		0	
	Pump Repairs	800			
	Boiler Certification Inspections	<u>0</u>	\$1,000	<u>0</u>	\$0
Bldg U - Digester	Boiler Repairs	400		0	
	Boiler Tuneup/Inspection/Cleaning/Repairs	1,500		0	
	Boiler Certification Inspections	<u>500</u>	\$2,400	<u>0</u>	\$0
Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Bldg V - Co-Generation	Patten - Engine Service	<u>100</u>	\$100	<u>0</u>	\$0

Intermediate Clarifiers	Repairs, Grease	<u>200</u>		<u>0</u>
			\$200	\$0
Bldg Y - CHP	Support Services (First Year of Two Years)	<u>0</u>		<u>4,000</u>
			\$0	\$4,000
GWA Facilities	Miscellaneous Certifications/Services			
	Overhead Crane Inspection/Repairs	2,300		2,500
	State Boiler/Pressure Vessel Certifications	800		800
	Elevator Service	900		1,200
	Elevator Inspections - Lombard	400		500
	RPZ - Lombard	400		400
	RPZ Inspections	1,500		1,500
	4" & 8" Portable Pump Repairs	1,200		0
	Snowthrower Equipment Repairs	0		0
	Electric Powered Tool Repairs	800		0
	Oil Recycling	0		1,500
	Heavy Equipment Rental	0		5,000
	Contracted Crane Service	0		2,400
	Unanticipated Contracted Repairs	<u>1,200</u>		<u>1,000</u>
			\$9,500	\$16,800
	Vehicle Maintenance Services	<u>42,100</u>		<u>20,000</u>
			\$42,100	\$20,000
	TOTAL		\$59,000	\$45,100

Glenbard Wastewater Authority
CY2017 Maintenance Electronics Budget Details
270 520980

Building	Designation	CY16 Budgeted	CY17 Budgeting
A	Bar Screen	3,100	3,100
B	Raw Pumps	8,400	8,400
C	Grit	2,750	2,750
D	Primary Clarifier	500	500
E	Primary Pump	2,650	2,650
F	Unox Deck	3,850	3,850
G	ATAD	550	550
H	Screw Pump	2,150	2,150
I	Final Clarifier	1,450	1,450
J	Pump/Meter	2,900	2,900
K	Thickener	550	550
L	Sandfilter	2,250	2,250
N	Warehouse	900	900
O	UV	3,000	3,000
P	Press	4,000	4,000
Q	Cryo	3,500	3,500
R	Administration	3,000	3,000
S	Maint. Garage	1,300	1,300
T	CRAS	2,200	2,200
U	Digester	4,000	4,000
V	Co-Gen	3,000	3,000
	Elec. Supplies	9,000	9,000
		\$65,000	\$65,000

Glenbard Wastewater Authority
CY2017 Maintenance Electronics Budget Details
270 520980

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Bar Screen	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM Repairs	500		500	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	800		800	
	SCADA System PM/Repairs	800		800	
	Telecommunications PM/Repairs	100		100	
	Bar Screen Total		\$3,100		\$3,100
Raw Pumps	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	2,000		2,000	
	HVAC Equipment PM/Repairs	700		700	
	Instrumentation PM/Repairs	2,000		2,000	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	1,000		1,000	
	Safety Equipment PM/Repairs	200		200	
	SCADA System PM/Repairs	2,000		2,000	
	Telecommunications PM/Repairs	100		100	
	Raw Pumps Total		\$8,400		\$8,400

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Grit	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	100		100	
	Motor PM/Repairs	100		100	
	Safety Equipment PM/Repairs	500		500	
	SCADA System PM/Repairs	500		500	
	Telecommunications PM/Repairs	50		50	
	Grit Total		\$2,750		\$2,750
Primary Clarifier	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	
	Primary Clarifier Total		\$500		\$500

Designation	Recommendations	CY16 Budgeted	Total	CY17 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	100		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	
	Primary Pump Total		\$2,650		\$2,650
Unox Deck	Control Panel PM/Repairs	500		500	
	Electrical Distribution PM/Repairs	500		500	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM/Repairs	1,000		1,000	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	1,300		1,300	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	50		50	
	Unox Deck Total		\$3,850		\$3,850

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
ATAD	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	100		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	50		50	
	ATAD Total		\$550		\$550
Screw Pump	Control Panel PM/Repairs				
	Electrical Distribution PM/Repairs	1,000		1,000	
	HVAC Equipment PM/Repairs	200		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	
	Screw Pump Total		\$2,150		\$2,150

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Final Clarifer	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	500		500	
	HVAC Equipment PM/Repairs	0		0	
	Instrumentation PM/Repairs	250		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	
	Final Clarifier Total		\$1,450		\$1,450
Pump and Meter	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	100		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	
	Pump and Metering Total		\$2,900		\$2,900

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Thickener	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	
	Thickener Total		\$550		\$550
Sandfilter	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM/Repairs	300		300	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		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	
	Sandfilter Total		\$2,250		\$2,250

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Warehouse	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	100		100	
	Instrumentation PM/Repairs	0		0	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	100		100	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	100		100	
	Warehouse Total		\$900		\$900
UV	Control Panel PM/Repairs	1,000		1,000	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	200		200	
	Instrumentation PM/Repairs	300		300	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	100		100	
	SCADA System PM/Repairs	700		700	
	Telecommunications PM/Repairs	100		100	
	UV Total		\$3,000		\$3,000

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Press	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	500		500	
	HVAC Equipment PM/Repairs	500		500	
	Instrumentation PM/Repairs	1,000		1,000	
	LAN PM/Repairs	200		200	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	200		200	
	SCADA System PM/Repairs	1,000		1,000	
	Telecommunications PM/Repairs	100		100	
	Press Total	<u>5,000</u>	\$4,000	<u>5,000</u>	\$4,000
Cryo	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	200		200	
	HVAC Equipment PM/Repairs	100		100	
	Instrumentation PM/Repairs	1,000		1,000	
	LAN PM/Repairs	0		0	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	400		400	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	1,000		1,000	
	Telecommunications PM/Repairs	500		500	
		<u>5,000</u>	\$3,500	<u>5,000</u>	\$3,500

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Administration	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	300		300	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	200		200	
	SCADA System PM/Repairs	500		500	
	Telecommunications PM/Repairs	500		500	
	Administration Total		\$3,000		\$3,000
Maintenance Garage	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	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	100		100	
	SCADA System PM/Repairs	0		0	
	Telecommunications PM/Repairs	200		200	
	Maintenance Garage Total		\$1,300		\$1,300

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
CRAS	Control Panel PM/Repairs	100		100	
	Electrical Distribution PM/Repairs	100		100	
	HVAC Equipment PM/Repairs	100		100	
	Instrumentation PM/Repairs	800		800	
	LAN PM/Repairs	100		100	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	200		200	
	Safety Equipment PM/Repairs	200		200	
	SCADA System PM/Repairs	200		200	
	Telecommunications PM/Repairs	300		300	
	CRAS Total		\$2,200		\$2,200
Digester	Control Panel PM/Repairs	300		300	
	Electrical Distribution PM/Repairs	300		300	
	HVAC Equipment PM/Repairs	400		400	
	Instrumentation PM/Repairs	500		500	
	LAN PM/Repairs	200		200	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	500		500	
	Safety Equipment PM/Repairs	500		500	
	SCADA System PM/Repairs	1,000		1,000	
	Telecommunications PM/Repairs	200		200	
	Digester Total		\$4,000		\$4,000

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Co-Gen	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	300		300	
	HVAC Equipment PM/Repairs	300		300	
	Instrumentation PM/Repairs	800		800	
	LAN PM/Repairs	200		200	
	Lighting Equipment PM/Repairs	100		100	
	Motor PM/Repairs	300		300	
	Safety Equipment PM/Repairs	300		300	
	SCADA System PM/Repairs	300		300	
	Telecommunications PM/Repairs	200		200	
	Co-Gen Total	<u>2,000</u>	\$3,000	<u>2,000</u>	\$3,000
Electrical Supplies	Conduit, wire, enclosures, fittings, switches, batteries, cleaning supplies, contact cleaners electronic components, Pneumatic Tubing & Fittings Thermal Overloads, fasteners, strut wire, nuts, etc.	9,000		9,000	
	Electrical Total	<u>9,000</u>	\$9,000	<u>9,000</u>	\$9,000
	Grand Total		<u>\$65,000</u>		<u>\$65,000</u>

Glenbard Wastewater Authority
CY2017 Electrical/Electronics - Support Budget
270 520981

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Administration	Network/Communications Consulting	10,000		10,000	
	Maximo CMMS Consulting	15,000		10,000	
	Intellution iFIX Global Support	12,500		10,500	
	Fire/Security Alarm Systems Testing & Monitoring	2,100		2,700	
	Software Support agreement Specter (Win-911)	1,300		500	
	Software Support Agreements Cisco Smartnet	1,000		2,500	
	Software Support Agreement IBM (Maximo)	5,650		6,000	
	Software Support Agreement Rockwell (PLC)	1,200		1,500	
	Software Support Agreement WIMS	0		0	
	Software Support Agreement TimeTrax (Time Clock)	250		300	
	Software Support Symantec (A/V)	2,000		1,100	
	Software Support Symantec Backup Exec	800		1,000	
	Servers Hardware Support	3,500		3,500	
	Telephone System Support Agreement Midco	2,300		2,300	
	Fire/Security Alarm Systems Support Agreement Siemens	11,000		11,700	
	Microsoft Server Select Agreement / Client Select Agreement	4,000		4,000	
	Mozy Pro Offsite Backup Service	0		1,000	
	ESRI Software Support Agreement	0		400	
Pretreatment	Linko Annual Software License Fee	0		6,500	
Flow Metering	ADS Flow Meter Maintenance/Data Analysis	114,000		119,500	
UV	Effluent Ammonia Analyzer Service Contract	4,100		4,300	
Plant Wide	HVAC Refrigeration Repairs	5,000		5,000	
Co-Generation	Switchgear Bi-Annual PM	0		7,000	
	Protection Relay Bi-Annual Calibration	0		2,000	
			\$195,700		\$213,300

**Glenbard Wastewater Authority
CY2017 Operations - Supplies Budget
270 520990**

Item	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Operating Supplies	Operational Supplies				
	Misc. Supplies	3,400		3,400	
	Home Depot				
	Blue Book				
	McMaster-Carr				
	McCann Equipment				
	Ace Hardware				
	Carbit Paint				
	Yard Hose Replacements	2,500		2,500	
	Primary Clarifier Deodorizer Nozzle Replacements	0		1,000	
	*Belt Filter Press Replacement Belts	0		7,500	
			\$5,900		\$14,400
	* Moved from Maintenance Budget				

**Glenbard Wastewater Authority
CY2017 Operations - Support Budget
270 520991**

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Plant Wide	*Ford Hall Company - Clarifier Brush Service Contract	6,500		0	
	Solid Waste / Recycle Waste Disposal	8,000		7,000	
	Wetwell Cleaning	5,000		7,500	
Cryo	**Oxygen Purchase for Turnaround	10,000		0	
	**Geen -- Cooling Water Conditioning Consultation	4,500		0	
UV	Recycle Fees	0		5,000	
		<hr/>		\$34,000	\$19,500

*Ford Hall Service not needed in the future due to FIP impacts

* Savings \$6,500/year

**Reduction due to the discontinuation of Oxygen Production.
Oxygen supply will be provided by Liquid Oxygen solicited
by competitive bid.

** Savings = \$14,500/year

**Glenbard Wastewater Authority
CY2017 Professional Services - Other
270 521055**

Designation	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Administration		0		2,000	
		<hr/>		<hr/>	
				\$0	\$2,000

**Glenbard Wastewater Authority
CY2017 Service Charge Budget
270 521130**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Service Charge	Village of Glen Ellyn -- Overhead fees	128,400		128,400	
		<hr/>			
			\$128,400		\$128,400
<hr/>					
CY2017 Overhead fees at 0% CPI-U Chicago increase					

Glenbard Wastewater Authority
CY2017 Sludge Disposal - Land App. Budget
270 521150

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Sludge Disposal	Stewart Spreading -- Trucking fees for Sludge Removal	170,000		170,000	
		<hr/>			
		Total	\$170,000		\$170,000

**Glenbard Wastewater Authority
CY2017 Telecomm Budget
270 521195**

Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
Call One - Admin - 790-1901	18,000		17,000	
Main Phone Lines (1901, 1902, 1903, 1904)				
SCADA Dial-up Lines (0459, 0689, 2097)				
SCADA WIN-911 on SCADA 1 & 2 (0958, 4487)				
Office Private Lines (1960, 1974, 1975, 1995, 1996)				
Dedicated Elevator (1486)				
Brokered Nat. Gas Meter Reader (0407)				
V.V. Lift Station (1242)				
Cell Phone Reimbursements (Erik & Matt)	0		1,200	
AT&T - E-991 DID #'s	2,000		2,100	
Comcast Internet - Primary ISP	2,400		2,400	
AT&T Internet - Secondary ISP (U-Verse)	2,000		1,300	
Verizon Cellular Service - Phones, tablets	5,000		5,000	
Verizon Cellular Service - RTU Radio Network	2,700		2,900	
Comcast - Cable Service	650		700	
		\$32,750		\$32,600

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

CY 2016The Cellular Remote Site Communication Project will reduce the surging monthly expenses for the landlines listed above.

CY2016 A 27% Increase was found on the Call-One bills beginning in June 2016

CY2017 Reduction of \$5,000 SCADA dial up lines due to new meter installations with wireless connectivity

**Glenbard Wastewater Authority
CY2017 Electrical Power Budget
270 521201**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Electrical Power	Fees for Purchase of Electric Power & ComEd Delivery Services	700,000		250,000	
			\$700,000		\$250,000

ComEd delivery charges increased in 2016 by an additional 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

Reduction due to purchasing Liquid Oxygen versus producing it along with the completion in August 2016 of the Combined Heat & Power Project

**Glenbard Wastewater Authority
CY2017 Natural Gas - Brokered - Budget
270 521202**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Nat. Gas - Brokered	Fees for Direct and Brokered purchase of Natural Gas	65,000		45,000	
			\$65,000		\$45,000
	CY2017 will show a reduction in natural gas costs due to the Combined Heat and Power Project completion.				

**Glenbard Wastewater Authority
CY2017 Water Budget
270 521203**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Water	Fees for Purchase of Potable Water - Village of Glen Ellyn	45,000		20,000	
			\$45,000		\$20,000
	Reduction in cost due to hauling liquid oxygen into the facility versus producing it.				
	Savings = \$30,000				

**Glenbard Wastewater Authority
CY2017 Co-Gen Natural Gas Budget
270 521204**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Natural Gas	Fees for Purchase of Natural Gas (Co-Generation Unit)	6,000		6,000	
		<hr/>		<hr/>	
		\$6,000		\$6,000	

**Glenbard Wastewater Authority
CY2017 Office Supplies Budget
270 530100**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
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	
	Total				
			\$20,000		\$20,000

**Glenbard Wastewater Authority
CY2017 Laboratory Supplies Budget
270 530106**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Laboratory Supplies	Laboratory Consumables and Glassware	20,000		15,000	
			\$20,000		\$15,000

**Glenbard Wastewater Authority
CY2017 Pretreatment Supplies Budget
270 530107**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Pretreatment Supplies	Sampling, Dyes, Test Kits, Tools	1,000		1,000	
Linko Software Support	Annual Software License Fee	2,000		0	
Public Outreach	Flyers/Brochures/Artwork/Magnets	0		1000	
			\$3,000		\$2,000

Glenbard Wastewater Authority
CY2017 Administrative Purchasing Budget
270 530200

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Administrative	Admin Vehicle Care	1,000		500	
	Ipass Charges	0		1,000	
Purchasing	Aerial Photography	1,000		1,000	
	Celebrating Success	1,000		1,000	
Total					
			\$3,000		\$3,500

**Glenbard Wastewater Authority
CY2017 Safety Budget
270 530225**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Admin	Portable Gas Detection Meter Cal Gas	1,200		1,200	
	Portable Gas Detection Meter Repair/Replacement	2,500		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	
Total			\$16,900		\$16,900

**Glenbard Wastewater Authority
CY2017 Chemical Supplies Budget
270 530440**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
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 Unison - Soda Ash for pH balance in CHP Hydrogen Sulfide Tank	70,000		75,000	
			\$70,000		\$75,000

**Glenbard Wastewater Authority
CY2017 Liquid Oxygen Supply Budget
270 530443**

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Cryo	Liquid Oxygen	0		375,000	
			\$0		\$375,000

Glenbard Wastewater Authority
CY2017 Uniforms Budget
270 530445

Item	Recommendation	CY16 Budgeted	Total	CY17 Budgeting	Total
Uniforms	Uniform Replacements	5,000		5,000	
Total			\$5,000		\$5,000

Budget CY2017

EXPENSES

Operations & Maintenance

Division 270-1

Stormwater Plant & Hill Avenue Lift Station

		Actual CY2015	Budgeted CY2016	Estimated CY2016	Budgeting CY2017	Difference CY16-CY17
Operations & Maintenance						
520775	Regulatory Fees	20,000	21,000	20,000	21,000	0
520970	Maint. - Bldgs. & Grnds. / Support	17,038	14,200	10,000	17,200	3,000
520975	Maint. - Equipment	5,303	3,100	1,000	5,250	2,150
520980	Maint. - Electronics	4,089	4,500	500	4,000	(500)
521201	Electric Power	32,724	30,000	37,000	35,000	5,000
521202	Natural Gas	2,951	3,500	5,000	4,500	1,000
521203	Water	2,455	3,500	3,100	3,000	(500)
530105	Operations	484	1,700	500	500	(1,200)
Commodities						
530440	Chemicals	27,546	30,000	20,000	25,000	(5,000)
Total 270-1		112,590	111,500	97,100	115,450	3,950

Glenbard Wastewater Authority
CY2017 Budget - 270-1 - Stormwater Plant & Hill Avenue Lift Station

	Item	Recommendations	CY16 Budgeting	Total	CY17 Budgeting
520775	IEPA Regulatory Fees		21,000		21,000
				\$21,000	
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		12,000
		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
				\$14,200	
520975	Maintenance	Unanticipated Equipment Repairs	500		500
		Hill Avenue Submersible Pump Service	1,000		1,000
		Grease/Oil/Belts	0		2,500
		Riparian Maintenance	0		750
		Peristaltic Pump Replacement Hose	400		500
	Equipment - Support	Unanticipated Equipment Repairs	200		0
		Underground Locates	500		0
		RPZ Inspections	500		0
				\$3,100	

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

	Item	Recommendations	CY16 Budgeting	Total	CY17 Budgeting
520980	Elect. Maintenance	Control Panel PM/Repairs	200		200
		Electrical Distribution PM/Repairs	1,500		1,200
		HVAC Equipment PM/Repairs	300		300
		Instrumentation PM/Repairs	800		800
		LAN PM/Repair	0		0
		Lighting Equipment PM/Repairs	400		200
		Motor PM/Repairs	500		500
		Safety Equipment PM/Repairs	0		0
		SCADA System PM/Repairs	500		500
		Telecommunications PM/Repairs	300		300
				\$4,500	
521201	Electricity			\$30,000	
521202	Natural Gas	Building Heaters		\$3,500	
521203	Water	Hosing, Lab, Chlor/DeChlor carrying water		\$3,500	
530105	Operations	Replacement Tools and Yard Hose	1,000		500
		Refuse Removal - Covered by one Facility Bill	700		0
				\$1,700	
530440	Chemicals	Hypochlorite / Sodium Thiosulfate		\$30,000	
Total 270-1				\$111,500	

Total

\$21,000

\$17,200

\$5,250

Total

\$4,000

\$35,000

\$4,500

\$3,000

\$500

\$25,000

\$115,450

Budget CY2017
Operations & Maintenance
270-2
NRI / St. Charles Road L.S.

EXPENSES

		Actual CY2015	Budgeted CY2016	Estimated CY2016	Budgeting CY2017	Difference CY16-CY17
St. Charles Rd. Lift Station						
520970 SC	Maint. - Bldg. & Grnds.	0	400	400	400	0
520975 SC	Maint - Equipment	1,925	8,000	3,000	8,000	0
520980 SC	Maint. - Electronics	16	3,600	500	3,000	(600)
521201 SC	Electric Power	16,685	15,000	18,000	17,000	2,000
Total		18,627	27,000	21,900	28,400	1,400
North Regional Interceptor						
520970 NRI	Maint. - Piping & Grnds.	0	500	0	500	0
Total		0	500	0	500	0
Total 270-2		18,627	27,500	21,900	28,900	1,400

**Glenbard Wastewater Authority
CY2017 Budget - 270-2 NRI / St. Charles Rd. L.S.**

	Item	Recommendations	CY16 Budgeted	Total	CY17 Budgeting	Total
St. Charles L.S.						
520970 SC	Bldg and Grounds	Miscellaneous	150		150	
		Annual RPZ Certification	100		100	
		Annual Fire System Certification	150		150	
				\$400		\$400
520975 SC	Maint. Equip.					
		Misc Parts/Oils (Post Warranty)	500		500	
		Submersible Pumps Annual Maintenance	6,000		6,000	
		Generator Service	1,500		1,500	
				\$8,000		\$8,000
520980 SC	Maintenance Electronics					
		Control Panel PM/Repairs	200		200	
		Electrical Distribution PM/Repairs	500		400	
		HVAC Equipment PM/Repairs	200		200	
		Instrumentation PM/Repairs	500		500	
		Lighting Equipment PM/Repairs	100		100	
		Misc Spare Parts	1000		500	
		Motor PM/Repairs	200		200	
		SCADA System PM/Repairs	800		800	
		Telecommunications PM/Repairs	100		100	
				\$3,600		\$3,000
521201 SC	Electric Power		15,000		17,000	
				\$15,000		\$17,000
NRI						
520970 NRI	Maint Piping and Grounds					
		Misc. repairs to the exposed manholes	500		500	
		Cleaning & Televising Sewer	0		0	
				500		\$500
Total 270-2				\$27,500		\$28,900

Budget CY2017
Operations & Maintenance
270-3
SRI / Valley View L.S.

EXPENSES

		Actual CY2015	Budgeted CY2016	Estimated CY2016	Budgeting CY2017	Difference CY16-CY17
Valley View Lift Station						
520970 VV	Bldg. & Grnds. Support	111	500	300	700	(200)
520975 VV	Maint. - Equipment	6,242	1,300	1,000	4,000	(2,700)
520980 VV	Maint. - Electronics	1,007	1,000	500	1,000	0
521201 VV	Electric Power	10,605	7,000	16,000	7,000	0
521203 VV	Water	1,449	0	1,800	2,000	(2,000)
Total		19,414	9,800	19,600	12,700	(2,900)
South Regional Interceptor						
520970	Maint. - Piping & Grnds.	0	500	0	500	0
Total		0	500	0	500	0
Total 270-3		19,414	10,300	19,600	13,200	(2,900)

**Glenbard Wastewater Authority
CY2017 Budget - 270-3 - SRI / Valley View L.S.**

DESIGNATION	Item	Recommendation	CY16 Budgeting	Total	CY17 Budgeting	Total
Valley View Lift Station						
520970 VV	Bldg./Grnds - Support	Miscellaneous	0		500	
		Annual RPZ Certification	0		200	
				\$0		\$700
520975 VV	Maint. Equip.					
		Misc Parts/Oils (Post Warranty)	1200		500	
		Seal Water Filters	100		0	
		Pump Maintenance	0		2,000	
		Generator Service	0		1,500	
				\$1,300		\$4,000
520980 VV	Maint, Electronics					
		Control Panel PM/Repairs	100		100	
		Electrical Distribution PM/Repairs	100		100	
		HVAC Equipment PM/Repairs	100		100	
		Instrumentation PM/Repairs	200		200	
		LAN PM/Repairs	100		100	
		Lighting Equipment PM/Repairs	100		100	
		Motor PM/Repairs	100		100	
		SCADA System PM/Repairs	100		100	
		Telecommunications PM/Repairs	100		100	
				\$1,000		\$1,000
521201 VV	Electricity			\$7,000		\$7,000
SRI						
520970 SRI	Maint Piping and Grounds					
		Misc. repairs to the exposed manholes	500		500	
		Cleaning & Televising Sewers	0		0	
				\$500		\$500
Total 270-3				\$9,800		\$13,200

GLENBARD WASTEWATER AUTHORITY FUND 40 CAPITAL PLAN

REVENUE in Thousands \$		Footnotes	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
Proceeds from Borrowing	1		6000	10334	0	0	0	0	5500	5500				0	0	0
Investment Income			8	20	20	20	20	20	20	20	20	20	20	20	20	20
Glen Ellyn Conn Fees			32	25	25	25	25	25	25	25	25	25	25	25	25	25
Lombard Conn Fees			16	100	25	25	25	25	25	25	25	25	25	25	25	25
EnerNoc Demand Response Program	2		24													
Leachate Revenue	3		152	140	117	117	117	117	117	117	117	117	117	117	117	117
Fats Oil & Grease (FOG) / Industrial Waste Tipping Fees			0	100	100	100	100	100	100	100	100	100	100	100	100	100
Cell Tower Revenue	4		28	49	51	53	55	58	60	62	65	67	70	73	76	79
CHP Grant Revenue - ICECF / DCEO	5		383	500					1000							
Operating Surplus Transfers to be added to FIP Repayment Fund	6		142													
Pretreatment Fines			0													
Misc. Revenue			5	10	10	10	10	10	10	10	10	10	10	10	10	10
Capital Fund Contribution - Glen Ellyr			1598	1619	1684	1720	1756	1793	1829	1868	1914	1962	2011	2059	2108	2156
Capital Fund Contribution - Lombard			1725	1781	1791	1830	1869	1907	1946	1987	2036	2088	2139	2191	2242	2294
Total Capital Fund Contribution	7		3323	3400	3475	3550	3625	3700	3775	3855	3950	4050	4150	4250	4350	4450
TOTAL REVENUE			10113	14678	3823	3900	3977	4055	9632	10714	4312	4414	4517	4620	4723	4826
EXPENSES in Thousands \$			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
Ana Digester Project Debt Payment (P&I)	8		637	637	637	637	637	637	637	637	637	319				
Debt Service Payment Subtotal			637	637	637	637	637	637	637	637	637	319				
FIP Repayment Fund Per April 14, 2016 EOC Award Criteria																
FIP Debt Payment Scheduled (P&I)	9				1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268	1268
FIP Debt Payment Actual (P&I)					996	996	996	996	996	996	996	996	996	996	996	996
Debt Service Payment Subtotal					996	996	996	996	996	996	996	996	996	996	996	996
FIP Repayment Fund Balance			142	0	272	544	816	1088	1360	1632	1904	2176	2448	2720	2992	3264
Biological & Chemical Phosphorus Debt Payment Scheduled (P&I)										670	670	670	670	670	670	670
Estimated Debt Service Payment Subtotal										670	670	670	670	670	670	670
Debt Service Subtotal			637	637	1905	1905	1905	1905	1905	1905	2575	2257	1938	1938	1938	1938
Personnel	10															
Engineer/Assistant Director 80% Capital - 20% O&M																
Salary			62	81	83	86	89	91	94	97	100	103	106	109	112	115
FICA			6	7	8	8	9	9	10	11	12	12	13	14	16	17
IMRF			9	9	10	11	12	13	15	16	18	20	22	24	27	30
Health			15	16	18	20	22	24	26	29	32	36	39	43	48	53
Total			92	113	119	125	131	138	145	153	162	171	181	191	203	215
Capital Improvements																
Property Acquisition			273	290												
Capital Improvement Projects																
Vehicle and Equipment Replacement	11		101	104	45	36	25	127	71	183	248	137	141	130	130	130
Small Capital Projects	12		75	151	100	100	100	100	100	100	100	100	100	100	100	100
Infrastructure Improvements	13		146	315	300	300	300	300	300	300	300	300	300	300	300	300
Administration Building Renovations	14		0	100												
Roof Replacements - Updated based on Repl. Schedule	15		0	65	84	0	0	0	0	0	0	0	0	0	0	0
Plant Equipment Rehabilitation	16		252	250	300	300	300	300	300	300	300	300	300	300	300	300
Cryo Maintenance/Atomospheric Vaporizer Purchase or Lease			100	100												
Facility Plan					150					150						175
DuPage River Salt Creek Work Group	17															
Assessment Cost for Watershed Projects			95	155	160	265	273	281	289							
Facility Improvements Project	18															
Engineering			475	475												
Construction (IEPA Loan)			6000	10334												
Digester Gas Recovery - Combined Heat & Power (CHP)																
Construction			3008													
Hauled Wastes Receiving																
Construction			287													
Combined Heat & Power Biogas Storage System	19															
Low Pressure Biogas Storage System				350												
UV System Upgrade - Pg 7.33, 7.34 & 7.35 of Approved Facility Plan	20															
Ironbrook UV - Collcorp Inc. Upgrade Current UV System				725												
Sludge Lagoon Cleanout																
North Sludge Lagoon																
South Sludge Lagoon					200											
Bemis Road and Administrative Parking Lot Improvements						400										
Grit Building MCC Replacement																
Engineering					29											
Construction					221											
Elect. Service, Backup & Redundancy Project																
Engineering						212										
Construction							2000									
Biological & Chemical Phosphorus Removal																
Engineering								1000								
Construction									5000	5000						
Biosolids Dewatering Equipment Replacement / Covered Storage																
Engineering									603							
Construction										2500	2500					
Stormwater Plant Barscreen & Grit Collection System Upgrade																
Engineering													532			
Construction														2200	2200	
Anticipated Future Projects per the 20 Year 2013 Facility Plan.																
O&M Manual Updates														380		
Primary Waste Activated Sludge Thickening														1600		
Site Lighting														300		
Liquid Biosolids Storage Improvements														1100		
PLC Replacements - Campus Wide														1200		
2013 Estimates														4580		
Project Total			10539	13124	1589	1613	2998	2108	6060	6636	3448	3337	1373	3030	3205	830
IFT/DEBT SERVICES / PROJ TOTAL			11268	13874	3613	3643	5034	4151	8110	8694	6185	5765	3492	5159	5346	2983
Cash on Hand 1/1			3371	2216	3020	3230	3488	2431	2335	3857	5877	4004	2654	3679	3140	2518
Gain/Loss FY			(1155)	804	210	257	(1057)	(96)	1522	2020	(1873)	(1351)	1025	(539)	(623)	1843
Cash on Hand 12/31			2216	3020	3230	3488	2431	2335	3857	5877	4004	2654	3679	3140	2518	4361

Capital Fund 40 Notations:

- ~ Extended Planning From 2023 to 2029
- ~ Debt Payments CY18 through CY29
- ~ Operational Surpluses added to FIP Replacement Fund for CY2017
- ~ Removed PLC Replacements Engineering & Construction from CY2025

Cryo Plant & Unox Deck Improvements Removed Due to Planned Decommissioning of the Production Plant

- ~ UNOX Deck Control Improvements - \$395,000
- ~ Final Unox Stage Modifications - \$234,000
- ~ Cryo Building MCC and PLC Replacements - \$306,000

Budget CY2017
Glenbard Treatment Facility
Fund 40 Capital Plan
Capital Improvements Detail

	Estimated CY2016	Budgeting CY2017
PROCEEDS FROM BORROWING	6,000,000	10,334,000
INVESTMENT INCOME	8,000	20,000
CONNECTION FEES - GLEN ELLYN	32,000	25,000
CONNECTION FEES - LOMBARD	16,000	100,000
ENERNOC DEMAND RESPONSE PROGRAM	24,000	0
LEACHATE REVENUE	152,000	140,000
FATS OIL & GREASE (FOG) / INDUSTRIAL WASTE TIPPING FEES	0	100,000
CELL TOWER REVENUE	28,000	49,000
DCEO/ICECF GRANT REVENUE	383,000	500,000
PRETREATMENT FINES	0	0
MISCELLANEOUS REVENUE	5,000	10,000
FIP REPLACEMENT FUND PER APRIL 14, 2016 EOC AWARD CRITERIA		
OPERATING SURPLUS TRANSFERS	142,000	0
EQUIPMENT REPLACEMENT FUND		
GLEN ELLYN - 47.66%	1,598,000	1,620,270
LOMBARD - 52.35%	1,725,000	1,779,730
REVENUES TOTAL:	10,113,000	14,678,000
PRINCIPAL & INTEREST:		
IEPA DIGESTER PRINCIPAL	506,000	506,000
IEPA DIGESTER INTEREST	131,000	131,000
PRINCIPAL & INTEREST TOTALS:	637,000	637,000
PERSONNEL:		
Engineer/Assistant Director 80% Capital - 20% O&M		
Salary	62000	81000
FICA	6000	7000
IMRF	9000	9000
Health	15000	16000
PERSONNEL TOTALS:	92,000	113,000
CAPITAL IMPROVEMENTS		
PROPERTY ACQUISITION FUND		
BUDGETED	290,000	290,000
SPENT/ESTIMATED TO SPEND	273,000	273,000
FUND BALANCE:	17,000	34,000
CAPITAL IMPROVEMENT PROJECTS		
VEHICLE AND EQUIPMENT REPLACEMENT	101,000	104,000
SMALL CAPITAL PROJECTS	75,000	151,000
INFRASTRUCTURE UPGRADES	146,000	315,000
ADMIN BUILDING RENOVATIONS	0	100,000
ROOF REPLACEMENTS	0	65,000
PLANT EQUIPMENT REHABILITATION	252,000	250,000
CRYO MAINTENANCE/ATMOSPHERIC VAPORIZER PURCHASE OR LEASE	100,000	100,000
FACILITIES PLAN UPDATE	0	0
DUPAGE RIVER SALT CREEK WORKGROUP ASSESSMENT	95,000	155,000
FACILITY IMPROVEMENTS PROJECT	6,475,000	10,809,000
COMBINED HEAT AND POWER PROJECT	3,008,000	0
HAULED WASTE RECEIVING	287,000	0
COMBINED HEAT AND POWER BIOGAS STORAGE SYSTEM	0	350,000
UV SYSTEM UPGRADE	0	725,000
CAPITAL IMPROVEMENTS TOTALS:	10,539,000	13,124,000
PRINCIPAL & INTEREST / CAPITAL IMPROVEMENTS TOTALS	11,558,000	14,164,000

**Glenbard Wastewater Authority
CY2017 Small Capital Improvement
40 580120**

Designation	Recommendations	CY16 Budgeted	CY17 Budgeting
Administrative	Miscellaneous Office Furniture Upgrades	0	4,000
	Office Décor - Display Case	500	3,000
Electronics	Health & Wellness- Exercise Equipment Upgrades	0	2,500
	Software Upgrades (OS & Application)	5,000	5,000
	Dewatering Main Exhaust Fan Service	5,000	5,000
	SCADA/LAN UPS Replacement	0	0
	Workstation Replacements SCADA & LAN	5,000	5,000
	Scissor Lift Batteries/Service	0	0
	Website Development	5,000	0
	Generator Battery Replacement	7,000	0
	CRAS Building Garage Overhead Door & Operator Replacement	10,000	10,000
	Elevator Code Upgrades	10,000	10,000
	PLC/RTU Battery Replacements	2,000	0
	Grit Effluent Actuator Replacement	6,000	6,000
	SCADA Remote Sites Communication - Spare Parts	16,000	0
	Combined Heat & Power Spare Parts	0	10,000
	Pressure Calibrator	0	6,000
Maintenance	Grinder Exchange Program	7,500	20,000
	Multiple Work Orders for Window Replacements Facility Wide	10,000	0
	Replace Muffle Furnace	0	0
	New West Gate Operator	0	0
	Traffic Loop Installation	10,000	0
	Demolish House at 21W 518 Bemis Rd	0	20,000
	Moyno Pump Spare Rotar/Stator	10,000	0
	Metal Stock and Metal for Various Projects	0	10,000
	PVC Pipe, Fittings and Valves	0	10,000
	Primary Pump Check Valve Replacement (2 Total)	0	5,000
	Pump and Metering Check Valve Replacement (2 Total)	0	5,000
	Combined Heat & Power Spare Parts	0	10,000
CSO Plant	Grit and Main Building Window Replacements	10,000	0
Laboratory	Sampler Replacement	7,500	0
	New Fecal Water Bath	0	4,000
Grand Total		\$126,500	\$150,500

**Glenbard Wastewater Authority
CY2017 Infrastructure Improvement
40 580140**

Designation	Recommendations	CY16 Budgeted	CY17 Budgeting
Electronics	Dewatering MCC Room AHU Replacement	30,000	0
	Exit/Emergency Lighting Replacement	0	0
	Polymer Blending Unit Replacement	40,000	40,000
	Digester Boiler Room Supply Fan/Duct Heater Replacement	30,000	0
	Pump & Metering Basement Actuator Replacement	40,000	0
	Elevator Panel Upgrade (Fire Alarm Integration)	20,000	20,000
	Co-Gen Facility PLC Replacement	25,000	0
	Dewatering FACP Replacement & Relocation to Exterior Wall	25,000	0
	Operational Database (Replacing Hach Wimms)	30,000	0
	Primary Scum Building AHU Replacement & Ductwork Reconfiguration	0	35,000
	Plant Fiber Testing/Repairs & Patch Panel Replacement at PP-U (3 rows of 8)	0	30,000
	Motor Operated Valves for FOG Station Optimization	0	100,000
Glenbard Plant	Utility Locator	20,000	0
	Co-Gen Outdoor Bus Duct Replacement	0	20,000
	Plant Buildings Electrical usage Meters (Purchase Installation)	0	50,000
	Maintenance Shop Rehabilitation	0	20,000
Grand Total		\$280,000	\$315,000

**Glenbard Wastewater Authority
CY2017 Plant Equipment Rehabilitation
40 580150**

Designation	Recommendations	CY16 Budgeted	CY17 Budgeting
	Digester Cleaning	70,000	0
Glenbard Plant	Moyno Pumps Spare Parts (Total of 10 Moyno Pumps)	0	50,000
	Grinder Exchange	0	0
	Televising & Cleaning of NRI & SRI	0	100,000
Unox	Inlet Valve Replacement	187,000	0
Intermediate Clarifiers	North and South Clarifier Bridge Painting	0	60,000
Gravity Thickener	Clarifier Mechanism and Bridge Painting	30,000	40,000
Sand Filter Building	Sandfilter Sand Replacement	0	0
CSO Plant	Grit and Main Building Window Replacements	0	0
Glenbard Plant	Multiple Work Orders for Window Replacements Facility Wide	0	0
Grand Total		\$287,000	\$250,000

Glenbard Wastewater Authority Vehicle and Equipment Replacement Schedule
CY2017 -- Annual Appreciation Rate -- 2% per Year

Unit No.	Year	Unit Description	Scheduled Replacement	Purchased Price	Anticipated Sale Income	Appreciated Planned Year Purchase Cost*	Total
628	1985	Bridgeport Vertical Milling Machine	HOLD	\$3,750			
623	1993	MEC Scissor Lift	HOLD	\$3,950			
617	1997	Pace Trailer (Confined Space)	HOLD	\$29,687			
612	1998	Daewoo Fork Lift (CSO)	HOLD	\$30,000			
619	2001	Miller Spectrum Plasma Cutting Machine	HOLD	\$3,500			
618	2003	Miller Trailblazer Welding Machine (Crane Truck)	HOLD	\$6,823			
621	2003	Alladin Hot Water Pressure Washer	HOLD	\$1,213			
635	2007	Salt Dog Salt Spreader	HOLD	\$3,456			
638	2009	Bobcat Skid Steer Backhoe Attachment	HOLD	\$6,683			
641	2009	Bobcat Skid Steer Sweeper Attachment	HOLD	\$2,403			
629	2013	Knuth Metal Cutting Lathe	HOLD	\$10,595			
620*	1993	Miller - Shopmaster 300 Welding Generator (TIG)	2017	\$2,300		\$10,000	
606*		New MIG Welder				\$10,000	
627	2005	Ford Utilimaster Low Cube (Electric)	2017	\$29,300		\$37,159	
634*	2008	Bobcat Utility Cart	2017	\$18,079		\$23,000	
640*	2009	Bobcat Utility Cart	2017	\$15,924		\$23,000	
							\$103,159
615	2001	Godwin 4" Trailer Mounted Pump	2018	\$17,113		\$23,962	
616	2001	Ingersol-Rand Trailer Air Compressor	2018	\$15,000		\$21,004	
		HOLD ITEM - Or Item moved up/down in schedule	2018			\$0	
		HOLD ITEM - Or Item moved up/down in schedule	2018			\$0	
		HOLD ITEM - Or Item moved up/down in schedule	2018			\$0	
							\$44,966
632	2006	Doosan/Daewoo Fork Lift (GWA Plant)	2019	\$27,200		\$35,186	
		HOLD ITEM - Or Item moved up/down in schedule	2019			\$0	
		HOLD ITEM - Or Item moved up/down in schedule	2019			\$0	
		HOLD ITEM - Or Item moved up/down in schedule	2019			\$0	
		HOLD ITEM - Or Item moved up/down in schedule	2019			\$0	
							\$35,186

* Appreciated Plan Year Purchase Cost adjusted to reflect current rates.

Unit No.	Year	Unit Description	Scheduled Replacement	Purchased Price	Anticipated Sale Income	Appreciated Planned Year Purchase Cost*	Total
642	2010	Dodge Grand Caravan	2020	\$19,916		\$24,277	
		HOLD ITEM - Or Item moved up/down in schedule	2020			\$0	
		HOLD ITEM - Or Item moved up/down in schedule	2020			\$0	
		HOLD ITEM - Or Item moved up/down in schedule	2020			\$0	
		HOLD ITEM - Or Item moved up/down in schedule	2020			\$0	
							\$24,277
610	2002	John Deere Wheel Loader	2021	\$86,500		\$126,014	
		HOLD ITEM - Or Item moved up/down in schedule	2021			\$0	
		HOLD ITEM - Or Item moved up/down in schedule	2021			\$0	
							\$126,014
643	2012	F250 Pick Up w/plow (Fuel Truck)	2022	\$29,799		\$36,325	
645	2012	Transfer Flow Fuel Tanks (Unleaded/Diesel on 643)	2022	\$2,443		\$2,978	
648	2015	Explorer (Director's Vehicle - 7 year cycle)	2022	\$27,659		\$31,771	
							\$71,074
644	2012	Crane Truck	2023	\$122,375		\$152,158	
637	2009	Bobcat Skidsteer	2023	\$24,018		\$31,691	
							\$183,849
611	2004	Volvo Semi-Tractor	2024	\$76,425		\$113,564	
646	2014	F350 Maintenance Truck	2024	\$62,816		\$76,572	
647	2014	F450 Dump Truck with Plow	2024	\$47,052		\$57,356	
							\$247,492
625	2016	Vac-Tron Vacuum Trailer with Jetter	2025	\$77,497		\$92,616	
649	2015	F350 with Utilimaster Body (Electric)	2025	\$35,875		\$43,731	
		HOLD ITEM - Or Item moved up/down in schedule	2025			\$0	
							\$136,348
605	2016	C-Max Hybrid (Pretreatment)	2026	\$24,294		\$29,614	
630	2006	Tandem Dump Trailer	2026	\$37,181		\$55,249	
633	2006	Godwin 8" Trailer Mounted Pump	2026	\$37,181		\$55,249	
							\$140,112
ANNUAL PURCHASES -- 2017							\$103,159

* Appreciated Plan Year Purchase Cost adjusted to reflect current rates.

CY2017

GLENBARD WASTEWATER AUTHORITY EQUIPMENT REPLACEMENT FUND

FUND 40		Actual CY15 Bdgt	Approved CY16 Bdgt	Estimated CY16 Bdgt	Budgeting CY17 Bdgt
5966	Equipment Replacement Flow Split - Total = Half of the Whole	1,633,500	1,665,000	1,665,000	1,700,000
	* Glen Ellyn Flow Split - 45.25%	766,112	768,564	768,564	769,250
	* Lombard Flow Split - 54.75%	867,388	896,436	896,436	930,750
	Equipment Replacement Split in Equity - Total = Half of the Whole	1,633,500	1,633,500	1,633,500	1,700,000
	Glen Ellyn Flow Split - 50%	816,750	832,500	832,500	850,000
	Lombard Flow Split - 50%	816,750	832,500	832,500	850,000
	Total	3,267,000	3,330,000	3,330,000	3,400,000

				Total Contributions	Percentage by Contribution
Total Glen Ellyn Equipment Replacement Fund Contribution:	1,582,862	1,601,064	1,601,064	1,619,250	47.63%
Total Lombard Equipment Replacement Fund Contribution:	1,684,138	1,728,936	1,728,936	1,780,750	52.38%

* Indicates Current 5 Year Avg. Flow Split for CY2017

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% Glen Ellyn	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											
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% Lombard	NRI 2.1%		NRI Flowsplits	SRI 1.3% Glen Ellyn	Actual Contributions	Percentage Increase	Total Glen Ellyn	Total Lombard	Accumulated Funding
	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 Plant 66.7%	Division 41 Stormwater Plant 12%	Fund 42 NRI 6.9%	Fund 43 SRI 3.1%	Fund 44 St. Charles Rd L.S 6.7%	Fund 45 Valley View L.S 2%	Fund 46 SRI L.S 2%	Fund 47 Sunnyside L.S .5%	Actual Contributions	Percentage Increase	Total Glen Ellyn	Total Lombard	Accumulated Funding
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 50/50	Split 1/2 Half of Actual	Glen Ellyn By Flow	Split By Flow	Lombard By Flow	Split By Partner	% Flow 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	769,250.00	930,750.00	45.25 / 54.75	1,700,000.00		3,400,000.00	2%	\$ 1,619,250.00	\$ 1,780,750.00	\$ 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		\$ 11,409,677.40	\$ 12,983,922.60				\$ 61,837,200.00		\$ 43,142,895.52	\$ 49,702,491.10	

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, 2017

	Digester Project	Facility Improvements Project	Total Debt Service
CY17*	637,001		637,001
CY18	637,001		637,001
CY19	637,001	995,684	1,632,685
CY20	637,001	995,684	1,632,685
CY21	637,001	995,684	1,632,685
CY22	637,001	995,684	1,632,685
CY23	637,001	995,684	1,632,685
CY24	637,001	995,684	1,632,685
CY25	318,501	995,684	1,314,185
CY26		995,684	995,684
CY27		995,684	995,684
CY28		995,684	995,684
CY29		995,684	995,684
CY30		995,684	995,684
CY31		995,684	995,684
CY32		995,684	995,684
CY33		995,684	995,684
CY34		995,684	
CY35		995,684	
CY36		995,684	
CY37		995,684	
CY38		995,684	
	5,414,509	19,913,680	20,349,769

Final

Budgeted

Budget CY2017
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%

<u>Fiscal Year</u>	<u>Due Date</u>	<u>Beginning Balance</u>	<u>Principal Payment</u>	<u>Interest Payment</u>	<u>Interest Rate %</u>	<u>Total Payment</u>	<u>Ending Balance</u>
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
Totals			\$7,703,496.87	\$1,538,529.43		\$9,242,026.30	

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

ADMINISTRATION	Salary Range	FY14	SY14	CY15	CY 16	CY 17
Executive Director	T	1	1	1	1	1
Engineering, Assistant Executive Director	Q	0	0	0	1	1
Enviromental Resources Coordinator	I	0	1	1	1	1
Seasonal Admin Secretary - FTE = .25		1	1	1	1	1
Administrative Secretary	F	1	1	1	1	1
FT Employee Totals		2	3	3	4	4
PT Employee Totals		1	1	1	1	1
FTE Totals		2.25	3.25	3.25	4.25	4.25
Operations						
Operations Superintendent	O	1	1	1	1	1
Plant Operator I	I	2	3	3	2	2
Plant Operator II	H	0	0	0	0	0
Plant Operator III	G	0	0	0	0	0
Plant Operator IV	F	2	2	2	2	2
Operator-in-Training	E	0	0	0	0	0
Operator PT - FTE = 1.0	E	5	5	5	5	5
Wastewater Laboratory Technician	I	1	1	1	1	1
PT Laborer - FTE = .50	D	2	1	1	1	2
FT Employee Totals		6	7	7	6	6
PT Employee Totals		7	6	6	6	7
FTE Totals		7.5	8.5	8.5	7.5	8
MECHANICAL MAINTENANCE						
Mechanical Maintenance Superintendent	O	1	1	1	1	1
Maintenance Mechanic I	I	2	1	1	1	1
Maintenance Mechanic II	G	0	0	0	2	2
Maintenance Mechanic III	F	0	1	1	0	0
FT Employee Totals		3	3	3	4	4
PT Employee Totals		0	0	0	0	0
FTE Totals		3	3	3	4	4
ELECTRICAL MAINTENANCE						
Electrical Electronics Superintendent	O	1	1	1	1	1
Electronic Technician	J	1	1	1	1	1
Plant Electrician	J	1	1	1	1	1
FT Employee Totals		3	3	3	3	3
PT Employee Totals		0	0	0	0	0
FTE Totals		3	3	3	3	3
TOTAL OF ALL CATEGORIES						
Total Full Time Employees		14	16	16	17	17
Total PT/Seasonal Employees		8	7	7	7	8
Total Full Time Equivalent (FTE)		15.75	17.75	17.75	18.75	19.25

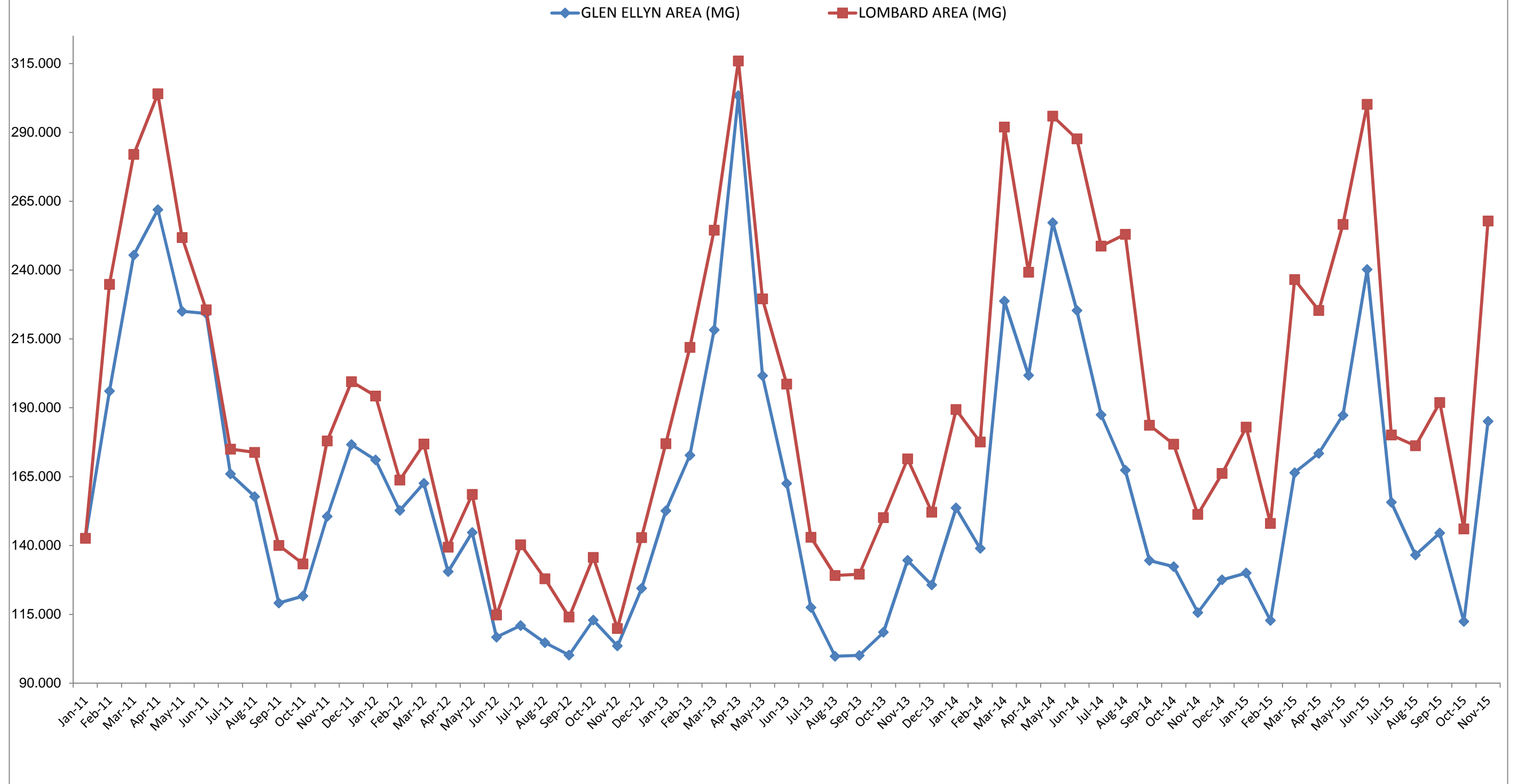
Glenbard Wastewater Authority
Salary Schedule - January 1, 2017 through December 31, 2017

Range	Annualized			Hourly		
	Min	Mid	Max	Min	Mid	Max
CY17 Salary Schedule Adjustment = No Increase to Salary Ranges from CY16						
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
T	89,336	112,570	135,782	42.95	54.12	65.28

TABLE 1. TOTAL WASTEWATER FLOWS AND PERCENTAGES FOR CY2017 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-11	285.299	142.664	50.01%	142.635	49.99%
	Feb-11	430.922	196.062	45.50%	234.860	54.50%
	Mar-11	527.506	245.454	46.53%	282.052	53.47%
	Apr-11	565.997	261.959	46.28%	304.038	53.72%
	May-11	476.910	225.060	47.19%	251.850	52.81%
	Jun-11	449.842	224.257	49.85%	225.585	50.15%
	Jul-11	341.006	165.983	48.67%	175.023	51.33%
	Aug-11	331.590	157.770	47.58%	173.820	52.42%
	Sep-11	259.184	119.152	45.97%	140.032	54.03%
	Oct-11	254.966	121.643	47.71%	133.323	52.29%
	Nov-11	328.584	150.589	45.83%	177.995	54.17%
	Dec-11	376.184	176.681	46.97%	199.503	53.03%
Y e a r T w o	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	267.336	124.434	46.55%	142.902	53.45%
Y e a r T h r e e	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	472.827	218.299	46.17%	254.528	53.83%
	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 o u r	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	441.060	201.787	45.75%	239.273	54.25%
	May-14	553.185	257.255	46.50%	295.93	53.50%
	Jun-14	512.987	225.33	43.93%	287.657	56.07%
	Jul-14	436.204	187.492	42.98%	248.712	57.02%
	Aug-14	420.414	167.406	39.82%	253.008	60.18%
	Sep-14	318.223	134.549	42.28%	183.674	57.72%
	Oct-14	309.155	132.35	42.81%	176.805	57.19%
	Nov-14	266.985	115.666	43.32%	151.319	56.68%
	Dec-14	293.723	127.548	43.42%	166.175	56.58%
Y e a r F i v e	Jan-15	313.002	130.025	41.54%	182.977	58.46%
	Feb-15	260.791	112.78	43.25%	148.011	56.75%
	Mar-15	403.033	166.466	41.30%	236.567	58.70%
	Apr-15	398.814	173.456	43.49%	225.358	56.51%
	May-15	443.926	187.303	42.19%	256.623	57.81%
	Jun-15	540.440	240.244	44.45%	300.196	55.55%
	Jul-15	335.868	155.714	46.36%	180.154	53.64%
	Aug-15	312.778	136.548	43.66%	176.23	56.34%
	Sep-15	336.494	144.547	42.96%	191.947	57.04%
	Oct-15	258.499	112.427	43.49%	146.072	56.51%
	Nov-15	442.929	185.084	41.79%	257.845	58.21%
	Dec-15	624.384	274.565	43.97%	349.819	56.03%
AVERAGE		357.260	161.667	45.25%	195.594	54.75%

AVERAGED WASTEWATER FLOWS UTILIZED FOR CY2017 BUDGET



SECTION 6.4

PENDING AGENDA ITEMS



Glenbard Wastewater Authority

21W551 Bemis Road Glen Ellyn, Illinois 60137

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

2016 Pending EOC Agenda Items

Projects	Budget	Date
Capital Improvement Projects		
Admin Building Improvements	\$70,000	Deferred until CY2017
Roof Rehabilitation	\$86,625	Deferred until CY2017
Cryo Plant Maintenance – Vaporizer System Purchase	\$100,000	October
Infrastructure Improvement		
Norchem Polymer Blending Unit Replacement	\$30,000	October
Pump & Metering Building Actuator Replacement	\$40,000	October
Equipment Rehabilitation		
Int. Clarifier Bridge & Mechanism Painting	\$30,000	Deferred until CY2017
Rolling Stock		
Rolling Stock Purchase (Utility Vehicle)	\$23,000	Deferred until CY2017
Administrative		
Forest Preserve Land Swap	-----	October
Pretreatment Ordinance Recommendation	-----	Late 2016
Close out CHP Project	-----	October
Budget Discussion Approval	-----	September October

Protecting the Environment for Tomorrow

SECTION 7.0

OTHER BUSINESS

SECTION 7.1

NISSEN WEFTEC FLYER

NISSEN
booth 7055

WEFTEC 2016

Come and meet us at the Danish Pavilion, Booth 7055
September 24th - 28th. 2016



Example of delivery in the USA Glenbard Wastewater Authority (WWTP), Chicago

Facility Characteristics

2 x 375 kW CHP Units based on MAN E 3268 LE 222 gas engines.

Specific Energy Challenge

Reduce 3rd party need for electrical and thermal energy. Increase beneficial use of biogas.

Energy Focus Area

Plant-wide initiative to achieve energy neutrality.

Implementation Approach

Progressive Design-Build Project Delivery approach to meet tight grant deadlines.

Energy Efficiency Outcome

750 kW produced = 60% plant electrical needs covered.

2.88 MMBTU/h produced = 96% of digestion process thermal energy needs covered.

SECTION 8.0

NEXT EOC MEETING

THURSDAY

OCTOBER 13, 2016

AT 7:30 A.M.