



**Glenbard
Wastewater
Authority
CY2021 Budget**



November 19, 2020

President Keith Giagnorio and
Members of the Glenbard Wastewater Authority Board
Glen Ellyn, Illinois 60137

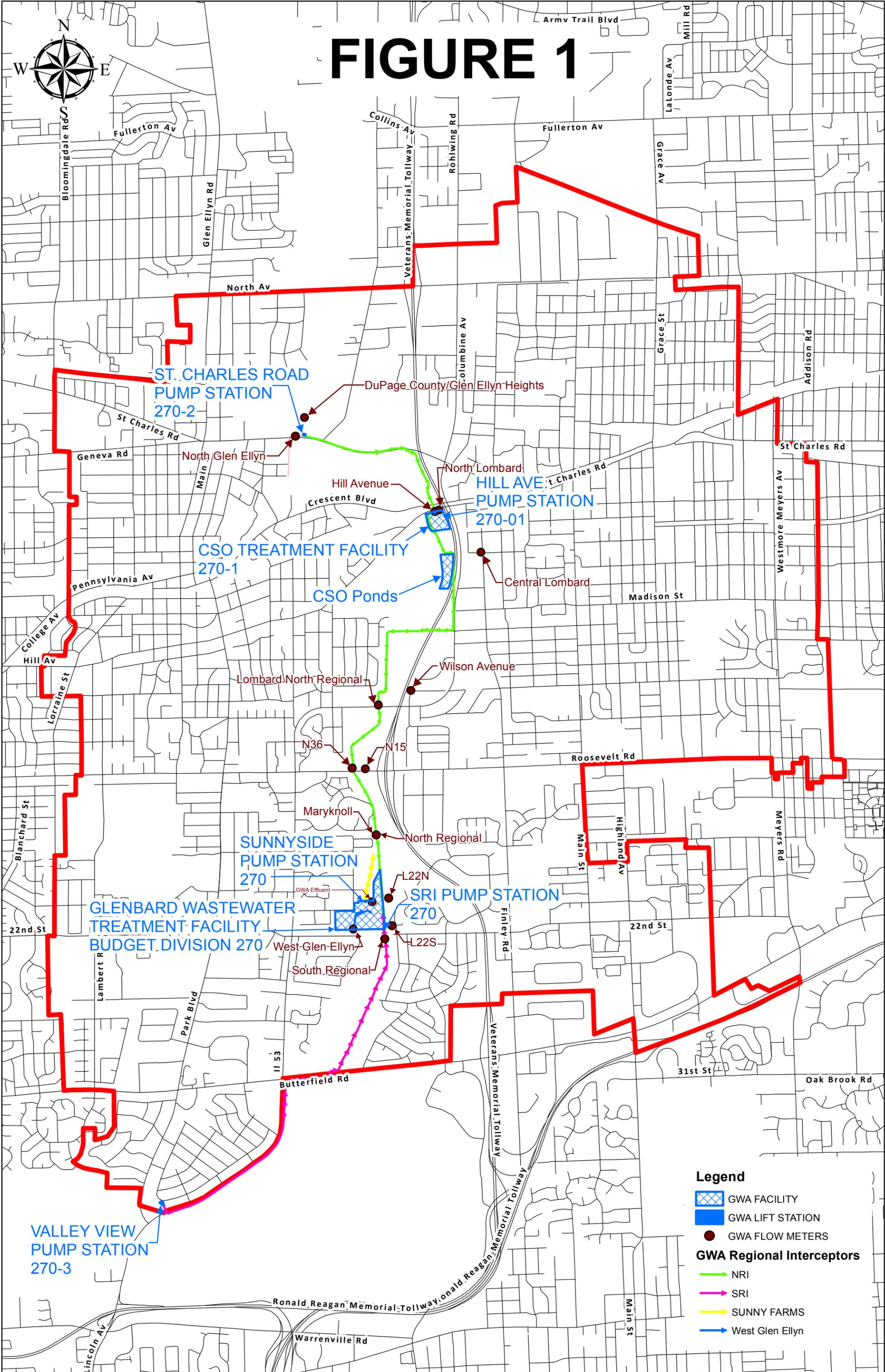
Subject: January 1, 2021 - December 31, 2021 Glenbard Wastewater Authority
Budget (CY2021)

I am pleased to present for your review and consideration the proposed Glenbard Wastewater Authority (Authority) CY2021 Budget. The Glenbard Team, with the help of the Village Managers, Public Works Directors, and Finance Directors developed the proposed budget that is being recommended for approval to the Glenbard Wastewater Authority Board. The proposed CY2021 partner allocation shows an overall increase of \$138,997, or 1.7%, compared to the approved CY2020 budget. The budget reflects a substantial capital improvement plan with the continuation projects recommended in the most recent Facility Planning document. The most significant moderate-sized project is the construction of the Biosolids Dewatering Improvements Project. Smaller projects include equipment rehabilitation and replacement, small capital projects, and minor infrastructure upgrades. The Biosolids Dewatering Improvements Project construction expenses are scheduled to be offset with a loan through the IEPA Clean Water Initiative at a low interest rate of 1.39%. The proposed budget includes funding that will assure continued plant operation that exceeds regulatory standards resulting in improved water quality of the East Branch of the DuPage River.

BACKGROUND

REGIONALIZATION -- The Illinois Pollution Control Board required regionalization of wastewater treatment facilities in 1974 by creating Facility Planning Areas (FPA). The Glenbard FPA, Region IV-B, originally contained 14,000 acres or 22 square miles and has been amended several times by Glen Ellyn and Lombard and now appears to contain approximately 14,157 acres or 22 ¼ square miles. Recommendations for FPA amendments are made to the Villages by the EOC and are usually done to add small adjacent areas. On occasion small adjacent areas are lost to other FPA's. As of October 2018, the Glenbard FPA contains a population equivalent (P.E.) of 107,708 which is an increase of 1,056 (P.E.) from October, 2017. The FPA is projected to contain a P.E. of 109,125 when fully developed. Figure 1 shows the FPA map with the individual components of the Authority.

FIGURE 1



Legend

-  GWA FACILITY
-  GWA LIFT STATION
-  GWA FLOW METERS
- GWA Regional Interceptors**
-  NRI
-  SRI
-  SUNNY FARMS
-  West Glen Ellyn

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

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

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

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

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

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

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

AUTHORITY ORGANIZATION

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

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

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

PERSONNEL – The day-to-day operation of the facilities is overseen by the Authority's Executive Director who is appointed and approved by the Executive Oversight Committee. A preliminary budget allotment of 18.75 highly qualified individuals who are employed with the Authority. Seventeen (17) employees work full-time while another seven (7) work part-time. Eleven employees are certified by the Illinois Environmental Protection Agency in wastewater treatment operations, and eight (8) of those eleven (11) employees hold Class I certificates, the highest certification possible within the State of Illinois.

BUDGET ORGANIZATION

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

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

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

The following is the fund allocation of the Capital fund:

Fund 40 - Equipment Replacement Fund

OPERATION AND MAINTENANCE (O&M) DIVISION

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

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

	Estimated CY2020	Proposed CY2021
Division		
270 - Glenbard Plant	\$4,289,423	\$4,515,212
SRI L.S		
Sunnyside L.S		
270-1 - Stormwater Plant	\$ 133,917	\$ 136,968
Hill Ave. L.S		
270-2 - N. Reg. Int.	\$ 36,529	\$ 30,050
St. Charles Rd. L.S		
270-3 - S. Reg. Int.	\$ 20,065	\$ 22,450
Valley View L.S		
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	\$4,479,934	\$4,704,680

Cash Reserves / Working Cash

FY 2020

Cash Reserves at January 1, 2020	<u>1,280,314</u>
FY20 Projected Surplus/(Deficit)	<u>120,160</u>
Projected Cash Reserves at December 31, 2020	<u>1,400,474</u>
Less: Estimated Encumbrances at December 31, 2020	<u>0</u>
Projected Working Cash at December 31, 2020	<u>1,400,474</u>
Less: FY20 Required Minimum Working Cash	<u>(1,150,524)</u> *
Projected Working Cash Surplus at December 31, 2020	<u><u>249,951</u></u>

Cash Reserves / Working Cash

FY 2021

Projected Cash Reserves at December 31, 2020	<u>1,400,474</u>
FY21 Projected Surplus/(Deficit)	<u>0</u>
Projected Cash Reserves at December 31, 2021	<u>1,400,474</u>
Less: Estimated Encumbrances at December 31, 2021	<u>0</u>
Projected Working Cash at December 31, 2021	<u>1,400,474</u>
Less: FY21 Required Minimum Working Cash	<u>(1,176,170)</u> **
Projected Working Cash Surplus at December 31, 2021	<u><u>224,304</u></u>

* 25% of FY20 Operating Expenses of \$4,602,094

** 25% of FY21 Operating Expenses of \$4,637,749

The seven most significant cost centers in the proposed CY2021 O&M budget are as follows:

1. **Personnel:** The CY2021 proposed GWA team level is at 18.75 full time equivalents (FTE). Personnel costs for the past twenty years of full-time equivalent staff are shown below. SY14 figures indicate expenses for only 8 months due to transitioning to a calendar year in 2015. The figures are indicative of the efficiencies realized through the elimination of multiple shifts, automation and monitoring, and other optimization measures:

	<u>Budget</u>	<u>Actual</u>	<u>FTE</u>
FY98	\$1,433,080	\$1,212,197	27.5
FY99	\$1,286,970	\$ 981,950	25.0
FY00	\$1,074,863	\$ 837,826	20.0
FY01	\$ 897,041	\$ 720,472	18.3
FY02	\$ 882,500	\$ 806,680	17.9
FY03	\$ 936,000	\$ 919,780	17.0
FY04	\$ 979,600	\$ 974,996	16.8
FY05	\$1,065,500	\$1,120,334	15.9
FY06	\$1,163,100	\$1,127,850	15.9
FY07	\$1,219,100	\$1,140,272	15.9
FY08	\$1,254,550	\$1,112,348	14.9
FY09	\$1,197,300	\$1,102,174	14.3
FY10	\$1,235,100	\$1,188,486	15.8
FY11	\$1,328,200	\$1,308,850	15.8
FY12	\$1,372,900	\$1,314,985	15.8
FY13	\$1,368,150	\$1,306,959	15.8
FY14	\$1,410,000	\$1,373,903	15.8
SY14	\$1,066,800	\$1,012,932	17.8
CY15	\$1,555,700	\$1,545,123	17.8
CY16	\$1,619,400	\$1,570,642	18.8
CY17	\$1,647,000	\$1,583,225	18.8
CY18	\$1,612,000	\$1,583,762	18.8
CY19	\$1,728,690	\$1,700,842	18.8
CY20	\$1,797,543	\$1,863,934	18.3 (Estimated)
CY21	\$1,827,670		

2. **O&M:** Expenses are budgeted in the amount of \$879,388. This includes electrical, mechanical, operational, laboratory and administrative operation and maintenance of plant equipment and the maintenance of buildings and grounds. It is imperative that the capital investment that the Villages have made in their wastewater facility be operated and maintained appropriately. These funds, coupled with those in Fund 40 allocated to Plant Equipment Rehabilitation, provide an excellent plan to operate and maintain the Glenbard Plant process

equipment. Maintenance funds cover both routine and non-routine repairs.

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

	<u>Actual</u>
FY05	\$606,375
FY06	\$588,400
FY07	\$693,128
FY08	\$1,194,869
FY09	\$769,137
FY10	\$873,093
FY11	\$976,915
FY12	\$1,163,751
FY13	\$752,600
FY14	\$799,084
SY14	\$560,071 (8 Month Budget)
CY15	\$760,826
CY16	\$1,023,100
CY17	\$645,708
CY18	\$672,769
CY19	\$692,316
CY20	\$624,997 (Estimated)
CY21	\$570,500 (Budgeted)

4. **Support Services:** The following are budgeted as support for each of the specific disciplines; Operations, Maintenance, Maintenance Building and Grounds, and Electrical. The CY2021 budget is proposed at a cumulative amount of \$406,666. This includes the cost of specialized support services that are more effectively and/or efficiently purchased or contracted than completed internally. Support Services range from \$200 per year for software support to \$122,000 per year which includes upgraded flow meters, data analysis and meter maintenance fees.

5. **Insurance:** Expenses are budgeted in the amount of \$418,000 for Liability and Health. This number represents all insurance required for the Authority's daily business.

6. **Liquid Oxygen:** The newer process of having liquid oxygen delivered versus producing it onsite provides the Authority with flexibility to operate the biological process with lower dissolved oxygen levels which translate into saving cost on liquid hauling. The budget amount for this line item is \$315,000.

7. **Fees:** Expenses are budgeted in the amount of \$289,456. Fees include payments for service, memberships, or regulatory fees during CY2021.

CAPITAL FUND

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

The revenue for the capital plan is funded via the following components: equipment replacement fund, interest earned in the Capital and O&M funds, sanitary sewer/GWA connection fees paid to both Villages, landfill leachate treatment, cell tower revenues, miscellaneous revenues and borrowing.

	Estimated	Proposed
	CY2020	CY2021
Fund 40 – Equip. Replacement		
Debt Payment	\$ 1,631,731	\$ 1,631,731
Project Expenses	\$ 8,341,316	\$ 5,473,510
Property Acquisition	\$ 0	\$ 0
Total	\$ 9,973,047	\$ 7,105,241

Proposed CY2021 capital expenses of \$7,105,241 are 26.9% or \$2,614,924 lower than the CY2020 budgeted capital expenses of \$9,933,165. The decrease reflects the conclusion of the Facility Improvement project along deferment or removal of projects in order to accommodate the lower contribution increases forecasted for the next ten years.

ALLOCATION OF EXPENSES

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

A total of 17 remote meters are located at key points in the Authority’s system to enable the Authority to monitor flows which are allocated for billing purposes between the Villages of Lombard and Glen Ellyn. The Flow Meters also identify the flows associated with non-member entities such as DuPage County located on the North side of the GWA Facility Planning Area, and Illinois American Water Company located on the South side of the GWA Facility Planning Area.

In CY2021 a five-year average flow split of 40.55% (Glen Ellyn) and 59.45% (Lombard) is being utilized to estimate the expense allocations for the Wastewater Treatment Facilities. The true ups during the budget year will adjust the members budgeted portions as the flow splits become actual.

The CY2021 budget is inclusive of O&M Division 270 with expense allocation tracking for all facilities. Glen Ellyn recoups some of their operating costs through billings to DuPage County and Illinois-American Water Company.

The *Total O&M Budget Allocation* estimates are as follows:

	Budgeted CY2020	Proposed CY2021
Village of Lombard	\$2,708,876	\$2,790,987
Village of Glen Ellyn	<u>\$1,883,218</u>	<u>\$1,903,693</u>
Total	\$4,592,094	\$4,694,680

The overall O&M contribution by the two Villages has increased by \$102,586 or 2.2% more than the CY2020 budget. The allocation to the Villages for the support of the O&M portion of the budget is \$4,694,680. The allocation to the Villages for support of the proposed Capital Fund is \$3,677,461.

CONCLUSION

The total proposed CY2021 budget and comparisons are as follows:

	Budgeted CY2020	Proposed CY2021
O&M	\$ 4,602,094	\$ 4,704,680
Capital	<u>\$ 9,933,165</u>	<u>\$ 7,105,241</u>
Total	\$14,535,259	\$11,809,922

Respectfully Submitted,



Matt Streicher, P.E. BCEE, PO, ENV SP
Executive Director
Glenbard Wastewater Authority

Glenbard Wastewater Authority
 Budget CY2021
 All Funds
 Expense Allocation to Partners

APPROVED CY2020 EXPENSES ALLOCATED TO PARTNERS			
	LOMBARD	GLEN ELLYN	TOTAL
Fund 27 -- Operation & Maintenance Fund	2,708,876	1,883,218	4,592,094
TOTAL O&M BUDGET	2,708,876	1,883,218	4,592,094
CAPITAL EQUIPMENT REPLACEMENT FUND	1,984,190	1,656,860	3,641,050
TOTAL O&M AND CAPITAL BUDGETS	4,693,066	3,540,078	8,233,144
ESTIMATED ACTUAL CY2020 EXPENSES ALLOCATED TO PARTNERS			
	LOMBARD	GLEN ELLYN	TOTAL
Div. 270 -- Glenbard Plant / SRI L.S. / Sunnyside L.S.	2,530,330	1,759,092	4,289,423
270-1 -- Stormwater Plant / Hill Ave L.S.	78,998	54,919	133,917
270-2 -- North Reg. Int. / St. Charles Rd. L.S.	21,548	14,981	36,529
270-3 -- South Reg. Int. / Valley View L.S.	11,836	8,229	20,065
TOTAL O&M BUDGET	2,642,713	1,837,221	4,479,934
CAPITAL EQUIPMENT REPLACEMENT FUND	1,984,190	1,656,860	3,641,050
TOTAL O&M AND CAPITAL BUDGETS	4,626,903	3,494,081	8,120,984
CY2020 BUDGET OVER (UNDER)	(66,163)	(45,997)	(112,160)
PROPOSED CY2021 PARTNERS ALLOCATION			
	LOMBARD	GLEN ELLYN	TOTAL
Fund 27 -- Operation & Maintenance Fund	2,790,987	1,903,693	4,694,680
TOTAL O&M BUDGET	2,790,987	1,903,693	4,694,680
CAPITAL EQUIPMENT REPLACEMENT FUND	2,012,490	1,664,970	3,677,461
TOTAL O&M AND CAPITAL BUDGETS	4,803,478	3,568,663	8,372,141
Proposed CY2021 Partners Allocation Compared to Approved Expenses Allocated to Partners CY2020:			
Operation & Maintenance	\$82,111 3.0%	\$20,475 1.1%	\$102,586 2.2%
Capital Improvements	\$28,300 1.4%	\$8,110 0.5%	\$36,411 1.0%
Total O&M and Capital Budgets	\$110,412 2.4%	\$28,585 0.8%	\$138,997 1.7%

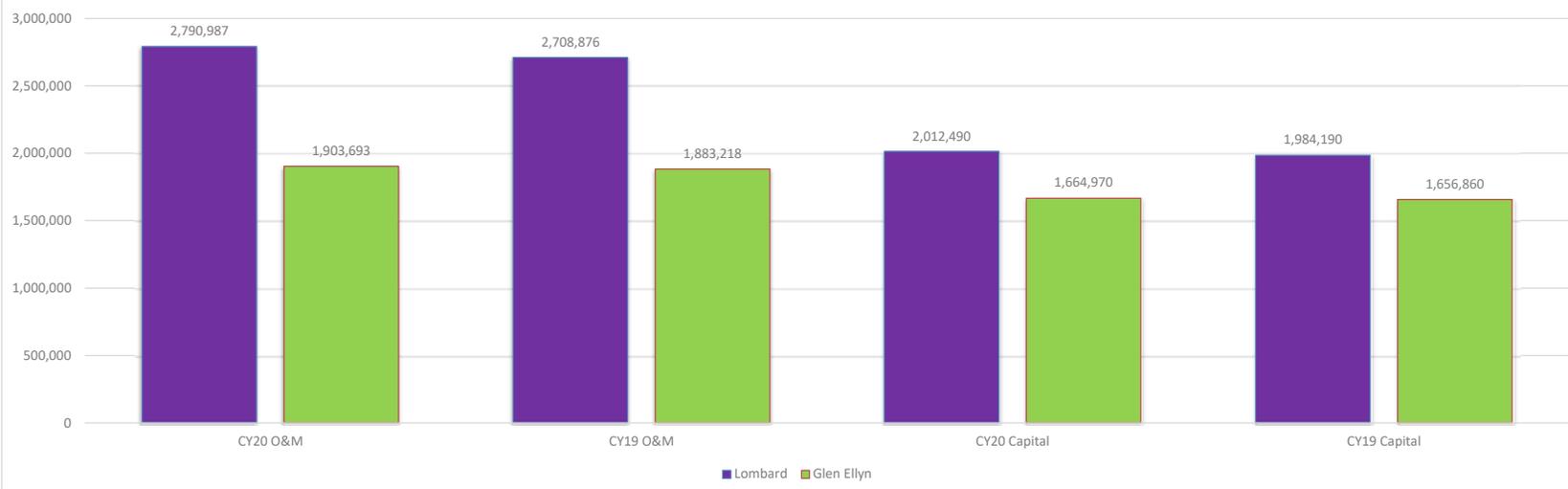
Glenbard Wastewater Authority				
Budget CY2021				
SUMMARY BY DIVISION				
Operations & Maintenance				
Expense Allocation to Partners	Actual	Budgeted	Estimated	Budgeting
REVENUES	CY2019	CY2020	CY2020	CY2021
Div. 270 -- Glenbard Wastewater Authority	4,244,218	4,592,094	4,592,094	4,694,680
Interest O&M Fund	42,695	10,000	8,000	10,000
Miscellaneous Revenue	0	0	0	0
IRMA Reimbursement	0	0	0	0
Total Revenues	4,286,913	4,602,094	4,600,094	4,704,680
	Actual	Budgeted	Estimated	Budgeting
EXPENSES	CY2019	CY2020	CY2020	CY2021
Div. 270 -- Glenbard Plant / SRI L.S. / Sunnyside L.S.	4,125,065	4,406,294	4,289,423	4,515,212
270-1 -- Stormwater Plant / Hill Ave L.S.	115,099	140,600	133,917	136,968
270-2 -- North Reg. Int. / St. Charles Rd. L.S.	29,673	33,000	36,529	30,050
270-3 -- South Reg. Int. / Valley View L.S.	17,075	22,200	20,065	22,450
Total O&M Expense:	4,286,913	4,602,094	4,479,934	4,704,680
Village of Glen Ellyn O&M Expenditures	1,824,510	1,887,319	1,837,221	1,907,748
Village of Lombard O&M Expenditures	2,462,403	2,714,775	2,642,713	2,796,932
Budget (Over) Under	1	0	120,160	0
Use of Available Cash				

Glenbard Wastewater Authority				
CY2021 Total Budget				
	Actual	Budgeted	Estimated	Budgeting
	CY2019	CY2020	CY2020	CY2021
Operations & Maintenance	\$4,286,913	\$4,602,094	\$4,479,934	\$4,704,680
Capital Costs (Expenses & Debt Repayment)	\$3,194,816	\$9,933,165	\$9,927,579	\$7,105,241
TOTAL	\$7,481,729	\$14,535,259	\$14,407,513	\$11,809,922

CY2020/CY2021 Division 270 Budgeted O&M Comps



CY2020/CY2021 Member Contribution Comps



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

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

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

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

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

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

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

Budget CY2020**Operations & Maintenance****Division 270****Expense Allocation to Partners****REVENUE**

		Actual CY2019	Budgeted CY2020	Estimated CY2020	Budgeting CY2021
Operation/Maintenance					
450010	Glen Ellyn Share - 40.55%	1,722,890	1,883,218	1,825,345	1,903,693
450015	Lombard Share - 59.45%	2,521,328	2,708,876	2,766,749	2,790,987
	Partners Allocation	4,244,218	4,592,094	4,592,094	4,694,680
	Interst Income - O&M Fund	42,695	10,000	8,000	10,000
	Misc. Revenue	0	0	0	0
	IRMA Reimbursement	0	0	0	0
DIVISION 270		4,286,913	4,602,094	4,600,094	4,704,680

NOTE: The flow splits used to calculate partner payments for CY2021 are as follows:

Flow Split for Glen Ellyn: 40.55%

Flow Split for Lombard 59.45%

(for 5 yrs. Average ending 12/31/19)

NOTE: The flow splits used to calculate partner payments for CY2020 are as follows:

Flow Split for Glen Ellyn: 41.01%

Flow Split for Lombard 58.99%

(for 5 yrs. Average ending 12/31/18)

NOTE: The flow splits used to calculate partner payments for CY2019 are as follows:

Flow Split for Glen Ellyn: 42.56%

Flow Split for Lombard 57.44%

(for 5 yrs. Average ending 12/31/17)

Budget CY2021		Footnotes	EXPENSES				% Difference CY20-CY21	\$ Difference CY20-CY21
Operations and Maintenance			Actual CY2019	Budgeted CY2020	Estimated CY2020	Budgeting CY2021		
Division 270								
Expense Allocation to Partners								
Personnel Services								
510100	Salaries - Regular	4	1,383,880	1,412,000	1,513,584	1,440,000	2.0%	28,000
510110	Salaries - Part-Time Ops.	5	54,409	60,000	44,501	60,000	0.0%	0
510200	Salaries - Overtime	6	47,691	66,000	50,976	66,000	0.0%	0
510300	Salaries - Temporary/Seasonal		5,144	7,000	1,295	7,000	0.0%	0
510400	FICA		109,053	118,193	117,856	120,335	1.8%	2,142
510500	IMRF	7	99,145	134,350	135,722	134,335	0.0%	(15)
	State Unemployment		1,521	0	0	0	0.0%	0
	Total		1,700,842	1,797,543	1,863,934	1,827,670	1.7%	30,127
Contractual Services and Commodities								
520305	Employee Recognition		989	1,000	500	1,000	0.0%	0
520600	Dues/Subs./Fees		10,005	9,900	9,998	9,900	0.0%	0
520615	Recruiting/Testing		1,010	1,000	1,000	1,000	0.0%	0
520620	Employee Education	8	16,075	28,700	12,985	24,700	-13.9%	(4,000)
520625	Travel (Mileage)		199	750	400	750	0.0%	0
520700	Pro. Serv.-Legal Support	9	23,060	15,000	15,000	20,000	33.3%	5,000
520750	Legal Notices		641	500	803	500	0.0%	0
520775	Regulatory Fees		52,740	53,000	53,000	53,000	0.0%	0
520776	DuPage River Salt Creek Work Group Fee	:	32,024	32,200	33,145	34,140	6.0%	1,940
520806	Pro. Serv.-Lab Support		26,258	28,500	22,900	25,000	-12.3%	(3,500)
520816	External Consulting Fees	:	8,736	20,000	16,900	20,000	0.0%	0
520825	Audit Fees / Pro. Serv. - Acct.	<	14,700	15,100	16,629	15,100	0.0%	0
520885	Insurance - Liability (MICA)	43	148,072	145,000	137,756	145,000	0.0%	0
520893	Wellness/Health Incentives		600	0	0	0	0.0%	0
520895	Insurance - Health	44	248,779	235,300	276,774	273,000	16.0%	37,700
520970	Maint. - Bldg. & Grds.		5,658	10,700	9,700	9,950	-7.0%	(750)
520971	Bldg. & Grounds - Support		47,696	56,600	38,900	54,674	-3.4%	(1,926)
520975	Maint. - Equipment		110,366	267,388	72,000	350,388	31.0%	83,000
520976	Maint. - Support	45	46,087	60,550	58,950	64,750	6.9%	4,200
520980	Maint. - Electronics		74,889	66,000	60,387	60,000	-9.1%	(6,000)
520981	Elect. - Support	46	195,740	222,534	226,177	217,774	-2.1%	(4,760)
520990	Operations - Supplies		12,669	14,100	7,100	7,100	-49.6%	(7,000)
520991	Operations - Support		4,500	7,000	7,044	7,000	0.0%	0
521055	Professional Services - Other Support		186	4,000	4,000	4,000	0.0%	0
521130	Overhead Fees	47	131,726	134,229	134,228	137,316	2.3%	3,087
521150	Sludge Disposal - Land Applied	48	193,648	185,000	221,068	195,000	5.4%	10,000
521195	Telecommunications		30,085	27,200	31,627	31,500	15.8%	4,300
521201	Electric Power	49	522,098	395,000	423,529	375,000	-5.1%	(20,000)
521202	Natural Gas	4:	35,713	60,000	56,021	60,000	0.0%	0
521203	Water		21,199	20,000	26,306	15,000	-25.0%	(5,000)
521204	Self-Gen Gas		4,382	6,000	4,600	6,000	0.0%	0
530100	Office Expenses		13,029	16,500	15,000	16,500	0.0%	0
530106	Operating Supplies - Lab		14,950	17,000	20,723	16,000	-5.9%	(1,000)
530107	Pretreatment Expenses		158	4,500	2,000	4,500	0.0%	0
530200	Administrative Purchases		0	2,000	1,700	1,000	-50.0%	(1,000)
530225	Safety		15,471	21,500	17,900	21,000	-2.3%	(500)
530440	Chemicals	4;	35,780	90,000	88,701	90,000	0.0%	0
530443	Liquid Oxygen	4<	318,438	330,000	295,237	315,000	-4.5%	(15,000)
530445	Uniforms		5,866	5,000	4,800	5,000	0.0%	0
	Total		2,424,223	2,608,751	2,425,488	2,687,543	3.0%	78,791
	TOTAL DIVISION 270		4,125,065	4,406,294	4,289,423	4,515,212	2.5%	108,918

CY2021 DIVISION 270 O&M FOOTNOTES

- (1) SALARIES (\$1,412,000):**
This budget number includes salaries provided for seventeen (17) full-time staff members. The full-time equivalent for all staff is approximately 18.8 including part-time operators and seasonal staff.
- (2) SALARIES - PART-TIME OPERATORS (\$60,000):**
The Glenbard Plant operates 24 hours per day, 7 days per week. The SCADA System monitors the plant while it is not manned. Work *is* required on weekends and holidays to assure continued treatment and processing to meet stream discharge standards. Most of this work involves solids processing that must be done 7 days per week. For approximately seventeen (17) years we have used Part-Time Operators to provide operational inspections and solids processing on weekends and holidays. The use of five (5) part-time operations staff has allowed the full-time operations staff to work a regular work week without needing to work swing shifts or weekend work unless a situation arises. This has worked out well, and has resulted in not only better working arrangements for the full-time operations staff, but also utilizes an expanded pool of operators who can be called upon to help with the plant operations. This item is based on the equivalent of one (1) full time 40 hour per week employee.
- (3) SALARIES – OVERTIME (\$66,000):**
GWA continues to trend overtime and manage this expense with best management practices in mind. The increase over last year is due to the potential to add a new policy that will put the Maintenance and Electrical departments in on-call rotations in addition to the Operations department.
- (4) IMRF (\$131,838):**
This represents a \$2,513 decrease compared to the CY2020 budget number of \$134,350.
- (5) EMPLOYEE EDUCATION (\$24,700):**
The employee education budget includes costs for attendance at seminars, conferences, and other educational courses – and includes travel costs and reimbursements. In addition to encouraging staff to receive continuing education, in 2019 the Illinois Environmental Protection Agency revised the requirements for Wastewater Operators to maintain their licenses, and now require continuing education, therefore we know staff will need to attend more events in order to keep their status current.
- (6) PROFESSIONAL SERVICE LEGAL (\$20,000):**
This item had a \$5,000 increase from CY2020 and is used for legal needs regarding projects and contract reviews, lease agreements, access, and all other legal consultation. This item was increased for CY2021 due to the anticipated need for additional legal services in relation to the FIP.

- (7) **DUPAGE RIVER SALT CREEK WORK GROUP (\$33,145):**
The increase in the work group dues is a direct correlation to the support we provide as members to keep the administrative functions in tact as we continue to collaborate with the IEPA with regard to our NPDES permits. The project initiatives that the East / West Branch DuPage River & Salt Creek watersheds are providing to the IEPA are imperative to the impacts of the nutrient standards relating to point source dischargers. The work group has been recognized by the IEPA as a leader in developing remediation to stream standards particularly relating to habitat improvements. The work group believes that stream remediation is the path to healthier streams and rivers versus costly implementation of nutrient discharge limits at treatment plants for phosphorus and total nitrogen. Educating communities about chloride utilization, storm water best management practices, and the discontinued use of coal tar sealants have also been important functions provided by this group. The IEPA has granted the Authority with two permit cycles (10 years) without impending NPDES limits for phosphorus, and is currently in negotiations to get another permit cycle (5 years) included onto the exemption.
- (8) **External Consulting Fees (\$20,000):**
This item covers the cost to hire a consulting engineer for small specific tasks required to implement equipment changes, operational changes or general consultation. In CY2019 the Authority anticipates needing to use external consultants for a number of small jobs or studies.
- (9) **AUDIT FEES (\$15,100):**
The Audit fees for the Authority cover the cost of the Village of Glen Ellyn as the "Operating Agency" to hire a third-party financial firm to provide an Audit of the CY2020 financials.
- (10) **INSURANCE LIABILITY (\$145,000):**
This item represents the annual premium cost of our coverage with Municipal Insurance Cooperative Agency (MICA), a pooled insurance program, which provides a protected self-insured plan. Included in this expense line is the annual premium payment to MICA for CY2021 and an excess liability policy. This Line item is the same as the number that was utilized for the CY2020 budget. Liability insurance consists of 2/3's Workman Comp costs and 1/3 Property insurance costs.
- (11) **INSURANCE HEALTH (\$273,000):**
Health care is provided through the Village of Glen Ellyn insurance plan. This line item reflects a \$37,700 increase over the CY2020 budget number of \$235,300.

(12) MAINTENANCE SUPPORT (\$64,750):

This line item reflects work previously budgeted in the Maintenance-Contractual line item. This represents a \$4,200 increase from the CY2020 budget number of \$60,550, and is solely a result of increased fleet maintenance costs from the Village of Glen Ellyn.

(13) ELECTRICAL SUPPORT (\$217,774)

This line item reflects a decrease in CY2021 compared to CY2020 budget number of \$222,534. The decrease is attributed to cost adjustments in annual service contracts.

(14) OVERHEAD FEES (\$137,316):

Overhead fees per the Intergovernmental Agreement (IGA) are based on the annually published CPI-U Chicago increase of 2.3% for the CY2021 budget. In 2015 the administrators for the member Villages reviewed the demands of the Authority regarding the Operating Agency's responsibility for oversight and felt that after three years (per the IGA) the review of workload allocation and the cost to support the Authority is acceptable until the next review due this year.

(15) SLUDGE DISPOSAL FEES (\$195,000):

Sludge disposal fees have been calculated based the bid price that was obtained in CY2018 for a 3-year contract, and estimated volume of sludge produced. This cost includes the costs of hauling sludge off plant site daily in order to better mitigate odors.

(16) ELECTRIC POWER (\$375,000):

In CY2017 The Authority signed a four (4) year agreement which began in CY2018 (February) with Direct Energy for a Fixed Fee of \$0.04436/KWH (reduction from previous 3-year contract with Dynegy Energy for \$.0478/KWH.) Our power consumption is directly impacted by wet weather conditions impacting our facilities. The Authority originally estimated this cost to be much lower (\$300,000) due to the potential electricity being produced by Combined Heat & Power (CHP) engine generators, however due to the digester upset, conservative numbers have been reinserted into the budget keeping in mind the uncertainty of the co-digestion/HSW program, and its effect on the ability to generate more electricity. The \$375,000 budget number for CY2021 is based on past trends and predicted CHP Electricity production, as well as normal operating parameters for the plant.

(17) NATURAL GAS (\$60,000):

In CY2017 The Authority signed a four (4) year agreement which began in CY2018 (April 1) with Constellation Energy Services for a Fixed Fee of \$2.78 per dekatherm (reduction from previous 3-year contract with Integrys Energy for a Fixed Fee of \$4.19 per dekatherm) The Authority is looking to continue to reduce our natural gas costs with the CHP process which as a secondary savings driver will reduce the need for natural gas as a fuel for our 1.5 million BTU boilers used to heat the anaerobic digesters. The hot water created by the engines is used to heat the digester which lowers the temperature of the water as it recirculates back through the engine and gets reheated. The hydronic process of the CHP system is complicated due to the needs of two processes, the anaerobic digester heating demands and the CHP engine cooling demands. The two must work together to successfully regulate the temperatures each one specifically needs.

The hot water if not needed by the boilers, will be cooled by the radiators to keep the CHP's from overheating.

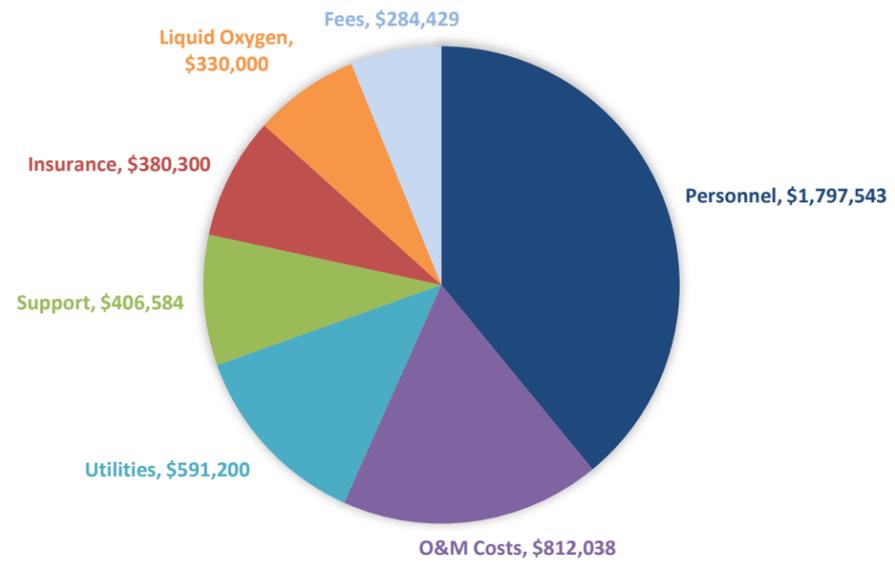
(18) CHEMICALS (\$90,000):

Chemicals used in the daily operation of the plant are included in this section at expected levels consistent with our recent history. Different chemicals are used for sludge dewatering, odor control, acid wash, and mineral deposition throughout the plant. Polymer production costs continue to increase annually due to the product being petroleum based. This item saw a significant increase from CY2018 due to higher hauling costs, as well as the additional of a chemical system related to the Facility Improvement Project

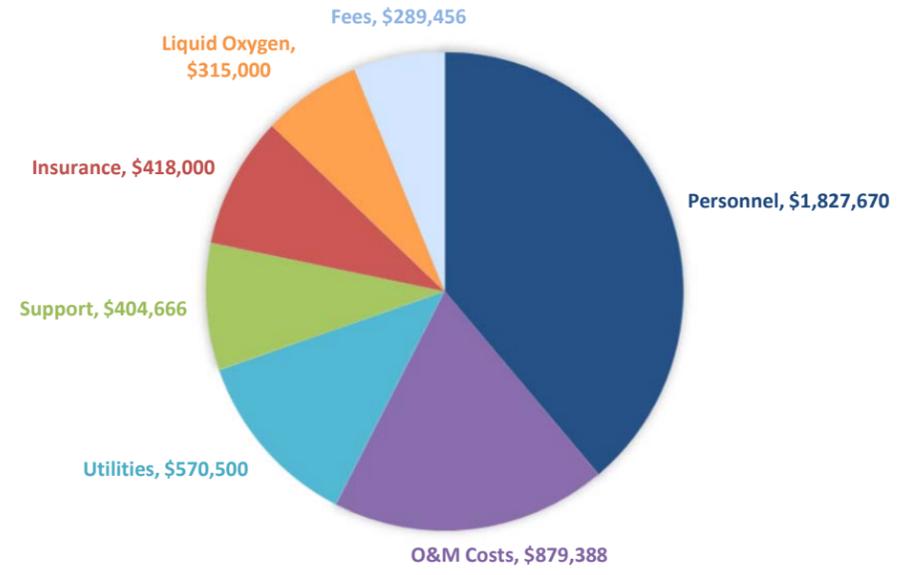
(19) Liquid Oxygen (\$330,000)

In CY2018 the Authority began to haul in pure oxygen from an outside provider. The transition to hauling it from an outside provider has allowed us to start using less energy, while still operating the high purity oxygen system, and gave us the ability to fine tune our operations prior to converting to a biological nutrient removal process. Performing the transition could avoid shocks to the biological components of the overall treatment process as a result of moving directly from High Purity Oxygen (HPO) Activated Sludge process to Biological Nutrient Removal (BNR). The transition to liquid hauling would also consume less staff time since the cryogenic plant would no longer be in operation, and would reduce overall operational costs. This line item has a \$15,000 decrease from CY2020, which is a result of trying to refine actual numbers based on historical usage. Since this is still a relatively new process, we continue to refine the number as we have more historical data to base it off of.

CY2020 O&M EXPENSES



CY2021 O&M EXPENSES



**Glenbard Wastewater Authority
CY2021 Personnel Budget
Division 270 -- 510100-510500**

Item	Comments	CY20 Budgeted	CY21 Budgeting
510100	Salaries - Regular	1,412,000	1,440,000
510110	Part - Time Operations = 1.0 Full Time Equivalent	60,000	60,000
510200	Laboratory Overtime	2,000	2,000
510200	Ops. Reg. Overtime	3,000	3,000
510200	High Flow Overtime	3,000	3,000
510200	Ops. Call-In Overtime	10,000	10,000
510200	Ops. SCADA Monitoring Overtime	21,000	21,000
510200	Maint. Regular Overtime	4,000	4,000
510200	Maint. Call-In Overtime	10,000	10,000
510200	Elec. Reg. Overtime	4,000	4,000
510200	Elec. Call-In Overtime	9,000	9,000
510300	Part Time Labor = .5 Full Time Equivalent	7,000	7,000
	Salaries Regular, PT Ops & Seasonal	1,479,000	1,507,000
	Salaries Overtime (3)	66,000	66,000
	Salaries	1,545,000	1,573,000
510400	FICA - 7.65%	118,193	120,335
510500	IMRF - 8.92%	134,350	134,335
	Personnel Services	\$1,797,543	\$1,827,670

**Glenbard Wastewater Authority
CY2021 Recognition/Awards Budget
270 520305**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Recognition/Awards	Miscellaneous (Manager's Discretion)	1,000		1,000	
Total		<u>1,000</u>	\$1,000	<u>1,000</u>	\$1,000

**Glenbard Wastewater Authority
CY2021 Dues/Fees/Subscriptions Budget
270 520600**

Item	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
Dues/Fees/Subs.	Water Environment Federation - Memberships	1,600		1,600	
	WEF - Publications	500		500	
	NACWA	1,100		1,100	
	IAWA	5,500		5,500	
	NFPA Membership	0		0	
	American Public Works Associaton - Memberships	0		0	
	Fox Valley Operators Association	300		300	
	Julie - Locating Services	400		400	
	Miscellaneous (Managers Discretion)	500		500	
		\$9,900		\$9,900	

**Glenbard Wastewater Authority
CY2021 Recruit/Test Budget
270 520615**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Recruiting/Testing	Daily Herald	1,000	<u>1000</u>	1,000	<u>1000</u>

**Glenbard Wastewater Authority
CY2021 Employee Training/Education Budget
270 520620**

	CY20 Budgeted	CY21 Budgeting
Administration	Employee Education - Administration	
WEFTEC -- Chicago, IL		
Streicher	3,000	1,000
Romza	3,000	1,000
CSWEA. IWEA, IAWA (Meetings/Conferences)	5,000	5,000
NACWA Pretreatment Conference - Staat	1,000	1,000
IPSI - Illinois Public Sector Institute Training:	0	0
Streicher - Year 3 of 3 year training program	1,500	1,500
Romza - Year 2 of 3 year training program	1,500	1,500
Staat - Year 1 of 3 year training program	1,500	1,500
Operations	Employee Education - Operations (5 Operators)	
WEFTEC --	100	100
Misc Tech Seminars	2,000	2,000
Central States WEA, IAWA State Conferences	2,000	2,000
Maintenance	Employee Education - Maintenance	
WEFTEC --	0	0
Facilities Maintenance Show -- 4 Maint Mech (Chicago)	100	100
Maintenance Based Courses/Seminars (APWA Snow and Ice)	500	500
IPSI - Illinois Public Sector Institute Training	0	0
Braga - Year 3 of 3 year training program	1,500	1,500
Misc Tech Seminars	3,000	3,000
Electrical	Employee Education - Electrical	
Misc Tech Seminars	2,000	2,000
Facilities Maintenance, ISA Shows -- R. Freeman, P. Dziejwior & J. Solita (Chicago)	0	0
Lab	Employee Education - Laboratory	
Misc Tech Seminars	1,000	1,000
	\$28,700	\$24,700

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

**Glenbard Wastewater Authority
CY2021 Mileage Reimbursement Budget
270 520625**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Travel	Travel for Seminars/Training				
	Manufacturing Trade Shows	250		250	
	I-Pass	500		500	
		<hr/>		<hr/>	
			\$750		\$750

**Glenbard Wastewater Authority
CY2021 Pro. Svc. Legal Budget
270 520700**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Pro. Svc. Legal	Contracted Legal Assistance	15,000		20,000	
Total			\$15,000		\$20,000

Glenbard Wastewater Authority
CY2021 Legal Notices
270 520750

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Legal Notices	Chicago Tribune Daily Herald	500		500	
			<u><u>\$500</u></u>		<u><u>\$500</u></u>

**Glenbard Wastewater Authority
 CY2021 Regulatory Fees
 270 520775**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Glenbard Plant	IEPA Regulatory Fees associated with the NPDES permit and sludge disposal permit as legislated by State.	53,000		53,000	
		\$53,000		\$53,000	

**Glenbard Wastewater Authority
 CY2021 DuPage River Salt Creek Work Group Commitment
 270 520776**

Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
GWA Workgroup Membership Dues	32,200		34,140	

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.

	\$32,200		\$34,140
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**Glenbard Wastewater Authority
 CY2021 Prof. Svc. Lab. Budget
 270 520806**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Cont. Lab Testing	Suburban Laboratories (Metals)	25,000		25,000	
	Digester Testing				
	Monthly Process Testing				
	Monthly Sludge Fecal Testing				
	Bio-Monitoring Services per NPDES Permit	3,500		0	
			\$28,500		\$25,000

Glenbard Wastewater Authority
CY2021 Prof. Svc. Eng. Budget
270 520816

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Pro. Serv. Engr.	External Consulting Fees	20,000		20,000	
		<hr/>		<hr/>	
			\$20,000		\$20,000

**Glenbard Wastewater Authority
CY2021 Prof. Svc. Acct. Budget
270 520825**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Pro. Svc. Acct.	Contracted Audit/Acct. Fees	11,700		11,700	
	Single Audit for SRF Disbursements	3,400		3,400	
			<hr/>	<hr/>	<hr/>
			\$15,100		\$15,100

**Glenbard Wastewater Authority
 CY2021 Insurance Liability Budget
 270 520885**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Ins.-Liability	Fees for Liability Coverage	145,000	\$145,000	145,000	\$145,000

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

Total Liability Insurance Amount: \$145,000 is a 0% increase compared to the \$145,000 budgeted for CY2020

**Glenbard Wastewater Authority
CY2021 Health Insurance Fees Budget
270 520895**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Ins. - Health	Fees for Employee Health Insurance Coverage	235,300		273,000	
		\$235,300		\$273,000	

Total Health Insurance amount reflects a 16% increase over budgeted (\$235,300) for CY2020

**Glenbard Wastewater Authority
 CY2021 - Buildings and Grounds Budget
 Maintenance
 270 520970**

Description	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
GWA Building/Grounds	Janitorial Supplies for Custodians	3,000		3,000	
	Door/Lock/Misc Repairs	1,500		1,250	
	Bldg./Equipment. Painting Supplies (Non-Contract)	1,000		750	
	Misc. Repair Parts	2,000		2,000	
	Mulch	500		400	
	Planting Beds	500		300	
	Grass Seed	200		250	
	Topsoil	2,000		2,000	
			\$10,700		\$9,950

**Glenbard Wastewater Authority
 CY2021 - Buildings and Grounds - Support Budget
 Maintenance
 270 520971**

DESIGNATION	RECOMMENDATIONS	CY20 Budgeted	Total	CY21 Budgeting	Total
Glenbard Plant	Roofing Systems Survey	0		0	
	Contractor Door/Lock Repairs	1,500		1,500	
	Spoil Removal	0		0	
	Shop Towel Service	2,750		2,400	
	Fire Extinguisher Service/Repairs	3,000		3,000	
	Elevator Service/Repairs	0		0	
	Elevator Press Tests	1,000		1,000	
	Elevator Inspections	2,500		2,500	
	Landscape Maintenance	21,200		20,624	
	Pest Control	300		300	
	Mosquito Spraying	600		600	
	Tru-Green Chemlawn - Turf/Shrub Disease Control	5,000		5,000	
	Contracted Window Repairs	1,000		1,000	
	Contracted Janitorial Service	15,000		14,000	
	Unanticipated Contracted Building/Grounds Repairs	2,000		2,000	
	Admin Window Cleaning Contract	750		750	
			\$56,600		\$54,674

**Glenbard Wastewater Authority
CY2021 Equipment Maintenance Budget
270 520975**

Building	Designation	CY20 Budgeted	CY21 Budgeting
A	Bar Screen	2,300	1,300
B	Raw Pump	2,050	1,700
C	Grit Removal	2,750	1,850
D	Primary Pump	2,150	1,400
E	Primary Scum	2,625	1,225
F	Unox	6,300	6,300
H	Screw Pump	7,550	7,550
I	Final Clarifiers	1,250	1,050
J	Pump & Metering	2,350	2,350
L	Sand Filter	1,150	700
N	Warehouse	250	100
P	Press	4,700	2,200
Q	Cryo.	3,100	3,100
R	Administration	1,750	1,500
S	Maint. Garage	5,250	4,000
T	Electrical Shop	3,050	2,700
U	Digester	3,200	3,000
V	Co-Gen	6,500	1,500
Y	Combined Heat and Power	188,413	287,813
Z	SRI Lift Station	3,500	3,250
	Miscellaneous	17,200	15,800
TOTAL		\$267,388	\$350,388

Glenbard Wastewater Authority
CY2021 Equipment Maintenance Budget
Maintenance
270 520975

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
Bldg A - Bar Screen	Bar Screen PM/Repairs	1,000		750	
	Rag Washer PM/Repairs	1,000		250	
	Isolation Gate PM/Repair	100		100	
	Potable Water System PM/Repairs	100		100	
	Non-Potable Water System PM/Repairs	100		100	
				\$2,300	
Bldg B - Raw Pump	Potable Water System PM/Repair	100		100	
	Non-Potable Water System PM/Repair	1,500		1,500	
	Raw Pump PM/Repair	150		100	
	Parco System PM/Repair	200		0	
	Isolation Gate PM/Repair	100		0	
			\$2,050		\$1,700
Bldg C - Grit	Potable Water System PM/Repairs	100		100	
	Non-Potable Water System PM/Repairs	100		100	
	Grit Collection System PM/Repairs	200		200	
	Grit Pump System PM/Repairs	1,000		100	
	Grit Washer System PM/Repairs	750		750	
	Blower System PM/Repairs	200		200	
	Odor Control PM/Repair	400		400	
			\$2,750		\$1,850
Bldg D - Primary Pump	Potable Water System PM/Repairs	50		50	

**Glenbard Wastewater Authority
CY2021 Equipment Maintenance Budget
Maintenance
270 520975**

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
	Sump Pump System PM/Repairs	0		250	
	Non-potable Water System PM/Repairs	100		100	
	Sludge Pump System PM/Repairs	1,000		500	
	Scum System PM/Repairs	1,000		500	
			\$2,150		\$1,400
Bldg E - Primary Scum	Potable Water System PM/Repairs	50		50	
	Non-Potable Water System PM/Repairs	75		75	
	Scum Compation System PM/Repairs	500		100	
	Odor Control System PM/Repairs	2,000		1,000	
			\$2,625		\$1,225
Bldg F - Unox	Seal Antifreeze	100		100	
	Unox System PM/Repairs	200		200	
	Mixer PM/Repairs	5,000		5,000	
	Valve Repair/Replacement	1,000		1,000	
			\$6,300		\$6,300
Bldg H - Screw Pump	V-Belts	750		750	
	Grease	5,800		5,800	
	Drive Oil	1,000		1,000	
		<u>1,000</u>	\$7,550	<u>1,000</u>	\$7,550
Bldg I - Final Clarifiers	Enclosure Insulation	200		50	

**Glenbard Wastewater Authority
CY2021 Equipment Maintenance Budget
Maintenance
270 520975**

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
	Final Clarifier PM/Repair	500		500	
	Valve PM/Repair	500		500	
			\$1,200		\$1,050
Bldg J - Pump and Metering	Sludge Pumping System PM/Repair	1,500		1,500	
	Potable Water System PM/Repair	100		100	
	Nitro Waste System PM/Repair	500		500	
	Non-Potable Water System PM/Repair	250		250	
		<u>2,350</u>	\$2,350	<u>2,350</u>	\$2,350
Bldg L - Disc Filter	Potable Water System PM/Repair	150		50	
	Non-Potable Water System PM/Repair	500		250	
	Disc Filter PM/Repair	500		400	
		<u>1,150</u>	\$1,150	<u>700</u>	\$700
Bldg N - Warehouse	Shelving Rehab	250		100	
		<u>250</u>	\$250	<u>100</u>	\$100
Bldg P - Press	Sludge Press System PM/Repair	2,000		750	
	FOG System PM/Repair	2,000		1,000	
	Non-Potable Water System PM/Repair	100		100	
	Polymer System PM/Repair	500		250	
	Potable Water System PM/Repair	100		100	
	Press Seal	0		0	
		<u>4,700</u>	\$4,700	<u>2,200</u>	\$2,200

Glenbard Wastewater Authority
CY2021 Equipment Maintenance Budget
Maintenance
270 520975

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
Bldg Q - Cryo	Oil and Filters	0		0	
	Misc. Parts	0		0	
	Instrument Air System PM/Repair	2,000		2,000	
	Potable Water System PM/Repair	100		100	

**Glenbard Wastewater Authority
CY2021 Equipment Maintenance Budget
Maintenance
270 520975**

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
	Replacement PRV's	0		0	
	Emergency Repair/Parts	1,000		1,000	
		<u>1,000</u>	\$3,100	<u>1,000</u>	\$3,100
Bldg R - Admin	Lavatory Repair Parts	750		750	
	Laboratory Systems PM/Repair	500		500	
	Washer/Dryer Parts	500		250	
		<u>500</u>	\$1,750	<u>250</u>	\$1,500
Bldg S - Maintenance Garage	Welding Supplies	2,500		2,000	
	Potable Water System PM/Repair	250		250	
	Compressed Air System PM/Repair	1,000		500	
	Shop Tools	1,500		1,250	
		<u>1,500</u>	\$5,250	<u>1,250</u>	\$4,000
Bldg T - CRAS/Electric Shop	Compressed Air System PM/Repair	250		100	
	Potable Water System PM/Repair	250		50	
	Non-Potable Water System PM/Repair	150		150	
	Carbo Pumping System PM/Repair	2,300		2,300	
	Carbo Piping PM/Repair	100		100	
		<u>100</u>	\$3,050	<u>100</u>	\$2,700
Bldg U - Digester	Boiler Parts / Cleaning	250		200	
	Non-Potable Water System PM/Repair	250		150	

**Glenbard Wastewater Authority
CY2021 Equipment Maintenance Budget
Maintenance
270 520975**

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
	Potable Water System PM/Repair	100		50	
	Boiler PM/Repair	750		750	
	Recirculation Pump PM/Repair	750		750	
	Mixing Pump PM/Repair	500		500	
	Digester PM/Repair	250		250	
	Bio-gas System PM/Repair	250		250	
	Oil and Belts	100		100	
			\$3,200		\$3,000
Bldg V - Co-Gen	Coolant (Completed in 2017)	0		0	
	Oil	5,000		0	
	Filters (Air/Oil)	1,500		1,500	
	Gauges	0		0	
	Miscellaneous (Plugs,Coils, etc.)	0		0	
			\$6,500		\$1,500
Bldg Y - CHP	600 Hour Service Interval (17 Intervals per engine)	18,000		18,000	
	1200 Hour Service Interval (6 Intervals per engine)	20,813		20,813	
	7500 Hour Service Interval (1 Interval per engine)	0		0	
	12000 Hour Service Interval (1 Interval per engine)	25,600		0	
	20000 Hour Service Interval (1 Interval per engine)	124,000		248,000	
	Recommended Spare Parts	0		1,000	
			\$188,413		\$287,813
Bldg Z - SRI	Salt/ Brine Parts (Snow)	500		250	

**Glenbard Wastewater Authority
 CY2021 Equipment Maintenance Budget
 Maintenance
 270 520975**

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
	Pump Parts/Seals	<u>3,000</u>		<u>3,000</u>	
			\$3,500		\$3,250
	Miscellaneous				
	Paints/Supplies	250		200	
	Replacement Tools	3,000		3,000	
	Oil Analysis	200		200	
	Batteries (Cordless Tools)	0		750	
	Hardware -- Bolts/Nuts/Drills/Taps	5,000		4,000	
	Parts Repair Shipping Costs (Freight)	250		250	
	Portable Pump Hose Replacements	200		200	
	Vacuum Hose Replacment	200		200	
	Safety Lane Vehicle Inspections	600		0	
	Hardware -- PVC Piping	1,000		1,000	
	Hardware -- Process Piping	1,000		1,000	
	Misc. Valves/Repair Clamps	1,000		1,000	
	Manhole Repair Parts	2,500		2,000	
	Unanticipated Equipment Repair Parts	<u>2,000</u>		<u>2,000</u>	
			\$17,200		\$15,800
GWA Facilities			\$267,338		\$350,388

Glenbard Wastewater Authority
CY2021 Equipment Maintenance - Support Budget
270-520976

Building	Designation	CY20 Budgeted	CY21 Budgeting
R	Administration	1,200	1,200
S	Maint. Garage	1,250	1,250
T	CRAS/Electric Shop	0	0
U	Digester	0	0
V	Co-Gen	0	0
	Intermediate Clarifiers	0	0
Y	Combined Heat & Power	8,000	8,000
	Miscellaneous	17,200	15,600
	Vehicle Maintenance Services	32,900	38,700
	TOTAL	\$60,550	\$64,750

**Glenbard Wastewater Authority
CY2021 Equipment Maintenance - Support
Maintenance
270-520976**

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
Bldg R - Administration	Washer/Dryer Chemicals	<u>1200</u>	\$1,200	<u>1200</u>	\$1,200
Bldg S - Maintenance Garage	Safety Klean Parts Service	0	\$1,250	0	\$1,250
	Torch Gas Cylinder Lease	750		750	
	Miscellaneous	<u>500</u>		<u>500</u>	
Bldg T - CRAS/Electrical Shop	Boiler Repairs	0	\$0	0	\$0
	Pump Repairs	0		0	
	Boiler Certification Inspections	<u>0</u>		<u>0</u>	
Bldg U - Digester	Boiler Repairs	0	\$0	0	\$0
	Boiler Tuneup/Inspection/Cleaning/Repairs	0		0	
	Boiler Certification Inspections	<u>0</u>		<u>0</u>	
Bldg Y - CHP	Support Services (Second Year of Two Years)	<u>8,000</u>	\$8,000	<u>8,000</u>	\$8,000
GWA Facilities	Miscellaneous Certifications/Services				
	Overhead Crane Inspection/Repairs	3,500		2,000	
	State Boiler/Pressure Vessel Certifications	2,500		2,500	
	Elevator Service	1,500		1,500	

**Glenbard Wastewater Authority
CY2021 Equipment Maintenance - Support
Maintenance
270-520976**

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
	Elevator Inspections - Lombard	0		0	
	RPZ - Lombard	500		500	
	RPZ Inspections	2,000		2,000	
	Electric Powered Tool Repairs	200		0	
	Oil Recycling	1,000		1,000	
	Safety Lane Vehicle Inspections	600		600	
	Heavy Equipment Rental	2,500		2,500	
	Contracted Crane Service	2,500		2,000	
	Unanticipated Contracted Repairs	1,000		1,000	
		<u>1,000</u>		<u>1,000</u>	
			\$17,800		\$15,600
Equipment Services Support		<u>32,900</u>		<u>38,700</u>	
			\$32,900		\$38,700
	TOTAL		\$61,150		\$64,750

Glenbard Wastewater Authority
CY2021 Maintenance Electronics Budget Details
270 520980

Building	Designation	CY20 Budgeted	CY21 Budgeting
A	Bar Screen	3,000	2,600
B	Raw Pumps	8,300	5,300
C	Grit	2,700	2,400
D	Primary Clarifier	500	500
E	Primary Pump	2,600	2,100
F	Unox Deck	3,800	3,800
G	ATAD	500	500
H	Screw Pump	2,100	2,100
I	Final Clarifier	1,350	1,350
J	Pump/Meter	2,800	2,300
K	Thickener	550	550
L	Sandfilter	2,200	1,700
N	Warehouse	800	800
O	UV	2,900	2,700
P	Press	3,900	3,400
Q	Cryo	1,100	1,100
R	Administration	3,000	2,900
S	Maint. Garage	1,300	1,300
T	CRAS	2,200	2,200
U	Digester	3,800	3,300
V	Co-Gen	2,800	2,800
Y	CHP	3,800	3,300
	Elec. Supplies	10,000	11,000
		\$66,000	\$60,000

**Glenbard Wastewater Authority
CY2021 Maintenance Electronics Budget Details
270 520980**

Designation	Recommendations	CY20 Budgeted	Total	CY21 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		400	
	Telecommunications PM/Repairs	0		0	
	Bar Screen Total		\$3,000		\$2,600
Raw Pumps	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	2,000		1,000	
	HVAC Equipment PM/Repairs	700		700	
	Instrumentation PM/Repairs	2,000		1,000	
	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		1,000	
	Telecommunications PM/Repairs	0		0	
	Raw Pumps Total		\$8,300		\$5,300

**Glenbard Wastewater Authority
CY2021 Maintenance Electronics Budget Details
270 520980**

Designation	Recommendations	CY20 Budgeted	Total	CY21 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		200	
	Telecommunications PM/Repairs	0		0	
	Grit Total	<u><u>2,700</u></u>	\$2,700	<u><u>2,400</u></u>	\$2,400
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	<u><u>500</u></u>	\$500	<u><u>500</u></u>	\$500

Glenbard Wastewater Authority
CY2021 Maintenance Electronics Budget Details
270 520980

Designation	Recommendations	CY20 Budgeted	Total	CY21 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		500	
	Telecommunications PM/Repairs	0		0	
	Primary Pump Total		\$2,600		\$2,100
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	0		0	
	Unox Deck Total		\$3,800		\$3,800

Glenbard Wastewater Authority
CY2021 Maintenance Electronics Budget Details
270 520980

Designation	Recommendations	CY20 Budgeted	Total	CY21 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	0		0	
	ATAD Total	<u><u>500</u></u>	\$500	<u><u>500</u></u>	\$500
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	0		0	
	Screw Pump Total	<u><u>2,100</u></u>	\$2,100	<u><u>2,100</u></u>	\$2,100

Glenbard Wastewater Authority
CY2021 Maintenance Electronics Budget Details
270 520980

Designation	Recommendations	CY20 Budgeted	Total	CY21 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	0		0	
	Final Clarifier Total		\$1,350		\$1,350
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		500	
	Telecommunications PM/Repairs	0		0	
	Pump and Metering Total		\$2,800		\$2,300

Glenbard Wastewater Authority
CY2021 Maintenance Electronics Budget Details
270 520980

Designation	Recommendations	CY20 Budgeted	Total	CY21 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		500	
	Telecommunications PM/Repairs	0		0	
	Sandfilter Total		\$2,200		\$1,700

**Glenbard Wastewater Authority
CY2021 Maintenance Electronics Budget Details
270 520980**

Designation	Recommendations	CY20 Budgeted	Total	CY21 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	0		0	
	Warehouse Total		\$800		\$800
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		500	
	Telecommunications PM/Repairs	0		0	
	UV Total		\$2,900		\$2,700

**Glenbard Wastewater Authority
CY2021 Maintenance Electronics Budget Details
270 520980**

Designation	Recommendations	CY20 Budgeted	Total	CY21 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		500	
	Telecommunications PM/Repairs	0		0	
	Press Total	<u>3,900</u>	\$3,900	<u>3,400</u>	\$3,400
Cryo	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	0		0	
	SCADA System PM/Repairs	400		400	
	Telecommunications PM/Repairs	0		0	
	Cryo Total	<u>1,100</u>	\$1,100	<u>1,100</u>	\$1,100

Glenbard Wastewater Authority
CY2021 Maintenance Electronics Budget Details
270 520980

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
Administration	Control Panel PM/Repairs	200		200	
	Electrical Distribution PM/Repairs	300		300	
	HVAC Equipment PM/Repairs	300		500	
	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		200	
	Telecommunications PM/Repairs	500		500	
	Administration Total		\$3,000		\$2,900
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

**Glenbard Wastewater Authority
CY2021 Maintenance Electronics Budget Details
270 520980**

Designation	Recommendations	CY20 Budgeted	Total	CY21 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	<u><u>3,000</u></u>	\$2,200	<u><u>3,000</u></u>
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		500	
	Telecommunications PM/Repairs	0		0	
		Digester Total	<u><u>3,800</u></u>	\$3,800	<u><u>3,300</u></u>

**Glenbard Wastewater Authority
CY2021 Maintenance Electronics Budget Details
270 520980**

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
CHP	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		500	
	Telecommunications PM/Repairs	0		0	
	Digester Total		\$3,800		\$3,300
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	0		0	
	Co-Gen Total		\$2,800		\$2,800
Electrical Supplies	Conduit, wire, enclosures, fittings, switches, batteries, cleaning supplies, contact cleaners electronic components, Pneumatic Tubing & Fittings Thermal Overloads, fasteners, strut				

**Glenbard Wastewater Authority
 CY2021 Maintenance Electronics Budget Details
 270 520980**

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
	wire, nuts, etc.	10,000		11,000	
	Electrical Total	<u>10,000</u>	\$10,000	<u>11,000</u>	\$11,000
	Grand Total		<u><u>\$66,000</u></u>		<u><u>\$60,000</u></u>

Glenbard Wastewater Authority
CY2021 Electrical/Electronics - Support Budget
270 520981

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
Administration	Network/Communications Consulting	10,000		10,000	
	Maximo CMMS Consulting	10,000		0	
	Intellution iFIX Global Support	9,200		9,200	
	Software Support agreement Specter (Win-911)	1,200		1,200	
	Software Support Agreements Cisco Smartnet	1,850		2,200	
	Software Support Fortinet Firewall Appliance	300		800	
	Software Support Agreement IBM (Maximo)	7,500		0	
	Software Support Agreement Rockwell (PLC)	1,300		1,300	
	Software Support OpWorks	5,000		5,300	
	Software Support Hach WIMS	0		0	
	Software Support Agreement TimeTrax (Time Clock)	200		200	
	Software Support Agreement and Battery ADS ECHO	384		499	
	Software Support Symantec (A/V)	500		500	
	Software Support MS Mail A/V	300		300	
	Software Support Symantec Backup Exec	0		0	
	Software Support HP Switches	700		750	
	Telephone System Support Agreement Midco	2,500		2,750	
	Zoom Professional account	0		155	
	Fire/Security Alarm Systems Support Agreement Siemens	12,500		12,600	
	Fire/Security Alarm Systems Testing & Monitoring	3,000		3,000	
	Microsoft Server Select Agreement / Client Select Agreement	4,200		4,200	
	Mozy Pro Offsite Backup Service	1,000		1,100	
	Web Hosting & Support	400		400	
Software Support Agreement ArcGIS (ESRI)	800		800		
Pretreatment	Linko Annual Software License Fee	6,800		4,120	
Pretreatment	SWIFTCOMPLY Annual Service Fee	0		4,000	
Flow Metering	RJN Flow Meter Maintenance/Data Analysis	132,000		132,000	
UV	Effluent Ammonia Analyzer Service Contract	5,900		6,100	
Plant Wide	HVAC Refrigeration Repairs	5,000		5,000	
Co-Generation	Switchgear Bi-Annual PM	0		6,000	
	Protection Relay Bi-Annual Calibration	0		3,300	
			\$222,534		\$217,774

**Glenbard Wastewater Authority
 CY2021 Operations - Supplies Budget
 270 520990**

Item	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
Operating Supplies	Operational Supplies				
	Misc. Supplies from Various Vendors	3,400		3,400	
	Yard Hose Replacements	2,500		2,500	
	Primary Clarifier Deodorizer Nozzle Replacements	1,000		1,000	
	Grit Deodorizer Nozzle Replacements	200		200	
	Belt Filter Press Replacement Belts	7,000		0	
		\$14,100		\$7,100	

**Glenbard Wastewater Authority
 CY2021 Operations - Support Budget
 270 520991**

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
Plant Wide	Solid Waste / Recycle Waste Disposal	7,000		7,000	
UV	Recycle Fees	0		0	
		\$7,000		\$7,000	

**Glenbard Wastewater Authority
CY2021 Professional Services - Other
270 521055**

Designation	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
Administration	Temporary labor services are billed to this account	4,000		4,000	
		<hr/>		<hr/>	
			\$4,000		\$4,000

**Glenbard Wastewater Authority
CY2021 Service Charge Budget
270 521130**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Service Charge	Village of Glen Ellyn -- Overhead fees	134,229		137,316	
		\$134,229		\$137,316	

CY2021 Overhead fees at 2.3% CPI-U Chicago increase

**Glenbard Wastewater Authority
 CY2021 Sludge Disposal - Land App. Budget
 270 521150**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Sludge Disposal	Trucking fees for Sludge Removal	185,000		195,000	
Total			\$185,000		\$195,000

**Glenbard Wastewater Authority
 CY2021 Telecomm Budget
 270 521195**

Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
Call One - Admin	12,000		15,000	
PRI Circuit (1901)				
Security Panel (1904)				
SCADA WIN-911 on SCADA 1 & 2 (0958, 0689)				
Fax Line (8119, ported to PRI)				
Dedicated Elevator (1486), CSO (2560)				
Brokered Nat. Gas Meter Reader (0407)				
V.V. Lift Station (1242), St.Char. Lift Station (1247)				
Cell Phone Reimbursements (Matt, Asst. Director, LSC, ERC)	2,400		2,400	
AT&T - E-991 DID #'s	0		0	
Comcast Internet - Primary ISP	2,700		3,000	
AT&T Internet - Secondary ISP (U-Verse)	1,300		1,100	
Verizon Cellular Service - Phones, tablets	5,800		7,000	
Verizon Cellular Service - RTU Radio Network	3,000		3,000	
		\$27,200		\$31,500

**Glenbard Wastewater Authority
CY2021 Electrical Power Budget
270 521201**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Electrical Power	Fees for Purchase of Electric Power & ComEd Delivery Services	395,000		375,000	
		<hr/>		<hr/>	
			\$395,000		\$375,000

**Glenbard Wastewater Authority
CY2021 Natural Gas - Brokered - Budget
270 521202**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Nat. Gas - Brokered	Fees for Direct and Brokered purchase of Natural Gas	60,000		60,000	
		<hr/>		<hr/>	
			\$60,000		\$60,000

**Glenbard Wastewater Authority
CY2021 Water Budget
270 521203**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Water	Fees for Purchase of Potable Water - Village of Glen Ellyn	20,000		15,000	
		<hr/>		<hr/>	
			\$20,000		\$15,000

**Glenbard Wastewater Authority
CY2021 Co-Gen Natural Gas Budget
270 521204**

Item	Recommendation	CY20 Budgeted	Total	CY21 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
CY2021 Office Supplies Budget
270 530100**

Item	Recommendation	CY20 Budgeted	Total	CY21 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)	2,000		2,000	
	Postage Meter Rental/Postage	1,500		1,500	
	Coffee Machine Services/Supplies	3,000		3,000	
Total			\$16,500		\$16,500

**Glenbard Wastewater Authority
CY2021 Laboratory Supplies Budget
270 530106**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Laboratory Supplies	Laboratory Consumables and Glassware	17,000		16,000	
		<hr/>		<hr/>	
			\$17,000		\$16,000

**Glenbard Wastewater Authority
 CY2021 Pretreatment Supplies Budget
 270 530107**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Pretreatment Supplies	Sampling, Dyes, Test Kits, Tools	1,000		1,000	
Public Outreach	Flyers/Brochures/Artwork/Magnets	0		0	
Testing	Annual Local Limit Baseline Testing	3,500		3,500	
			\$4,500		\$4,500

Glenbard Wastewater Authority
CY2021 Administrative Purchasing Budget
270 530200

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Purchasing	Aerial Photography (Drone Purchase)	1,000		0	
	Celebrating Success	500		500	
	Office Decorations	500		500	
	Total		<hr/> \$2,000		<hr/> \$1,000

**Glenbard Wastewater Authority
CY2021 Safety Budget
270 530225**

Item	Recommendation	CY20 Budgeted	Total	CY21 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 (\$200 max. allowance)	3,800		3,800	
	Cintas (First Aid Kit Supplies)	3,300		3,300	
	Safety Supplies	5,000		5,000	
	Safety Program Consultations & Training	3,000		3,000	
	Safety Suggestion Awards	500		0	
	Site Safety and Signage	1,000		1,000	
	Total		\$21,500		\$21,000

**Glenbard Wastewater Authority
 CY2021 Chemical Supplies Budget
 270 530440**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Treatment Costs	Chemicals that are utilized through daily operation: Hypochlorite, polymer, struvite control, odor control, struvite control, cleaning, acid wash, soda ash, etc.	90,000		90,000	
		<hr/>		<hr/>	
		\$90,000		\$90,000	

**Glenbard Wastewater Authority
CY2021 Liquid Oxygen Supply Budget
270 530443**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Cryo	Liquid Oxygen	330,000		315,000	
			<hr/>	<hr/>	<hr/>
			\$330,000		\$315,000

**Glenbard Wastewater Authority
CY2021 Uniforms Budget
270 530445**

Item	Recommendation	CY20 Budgeted	Total	CY21 Budgeting	Total
Uniforms	Uniform Replacements	5,000		5,000	
		<hr/>			
Total			\$5,000		\$5,000

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

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

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

Budget CY2021

EXPENSES

Operations & Maintenance

Division 270-1

Stormwater Plant & Hill Avenue Lift Station

	Actual CY2019	Budgeted CY2020	Estimated CY2020	Budgeting CY2021	% Difference CY19-CY20	\$ Difference CY19-CY20	
Operations & Maintenance							
520775	Regulatory Fees	20,000	20,000	20,000	20,000	0.0%	0
520970	Maint. - Bldgs. & Grnds. / Support	9,980	11,700	8,725	10,768	-8.0%	(932)
520975	Maint. - Equipment	2,393	5,900	4,500	5,200	-11.9%	(700)
520980	Maint. - Electronics	327	4,000	3,000	2,000	-50.0%	(2,000)
521201	Electric Power	35,499	38,000	37,725	38,000	0.0%	0
521202	Natural Gas	4,107	5,000	3,634	5,000	0.0%	0
521203	Water	3,998	5,000	4,826	5,000	0.0%	0
530105	Operations Supplies	539	1,000	835	1,000	0.0%	0
Commodities							
530440	Chemicals	38,256	50,000	50,672	50,000	0.0%	0
Total 270-1		115,099	140,600	133,917	136,968	-2.6%	(3,632)

Glenbard Wastewater Authority
CY2021 Budget - 270-1 - Stormwater Plant & Hill Avenue Lift Station

Item	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
520775	IEPA Regulatory Fees	20,000		20,000	
			\$20,000		\$20,000
520970	Building/Grounds	Misc. Repairs	2,500		2,500
		Sidewalk Repairs	500		500
	Bldg/Grnds - Support	Door/Lock/Window Repairs	500		500
		Landscape Maintenance	6,700		5,768
		Pest Control	100		100
		Fire Extinguisher Service/Repairs	100		100
		Tru-Green Chemlawn	800		800
		Roof Inspection	0		0
		Roof Repairs	500		500
		Sidewalk Repairs	0		0
			\$11,700		\$10,768
520975	Maintenance	Unanticipated Equipment Repairs	1,000		1,000
		Hill Avenue Submersible Pump Service	1,000		1,000
		Grease/Oil/Belts	2,500		2,500
		Riparian Maintenance	700		0
		Peristaltic Pump Replacement Hose	500		500
	Equipment - Support	Unanticipated Equipment Repairs	0		0
		Underground Locates	0		0
		RPZ Inspections	200		200
			\$5,900		\$5,200
520980	Elect. Maintenance	Control Panel PM/Repairs	200		200
		Electrical Distribution PM/Repairs	1,200		200
		HVAC Equipment PM/Repairs	300		300
		Instrumentation PM/Repairs	800		400
		LAN PM/Repair	0		0

Glenbard Wastewater Authority
CY2021 Budget - 270-1 - Stormwater Plant & Hill Avenue Lift Station

Item	Recommendations	CY20 Budgeted	Total	CY21 Budgeting	Total
	Lighting Equipment PM/Repairs	200		200	
	Motor PM/Repairs	500		250	
	Safety Equipment PM/Repairs	0		0	
	SCADA System PM/Repairs	500		250	
	Telecommunications PM/Repairs	300		200	
			\$4,000		\$2,000
521201	Electricity		\$38,000		\$38,000
521202	Natural Gas	Building Heaters		\$5,000	\$5,000
521203	Water	Hosing, Lab, Chlor/DeChlor carrying water		\$5,000	\$5,000
530105	Operations	Replacement Tools and Yard Hose	1,000	1,000	
			\$1,000		\$1,000
530440	Chemicals	Hypochlorite / Sodium Thiosulfate		\$50,000	\$50,000
Total 270-1			\$140,600		\$136,968

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

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

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

Budget CY2021
 Operations & Maintenance
 270-2
 NRI / St. Charles Road L.S.

EXPENSES

		Actual CY2019	Budgeted CY2020	Estimated CY2020	Budgeting CY2021	% Difference CY20-CY21	\$ Difference CY20-CY21
St. Charles Rd. Lift Station							
520970 SC	Maint. - Bldg. & Grnds.	0	500	298	450	-10.0%	(50)
520975 SC	Maint - Equipment	7,420	9,000	9,275	7,600	-15.6%	(1,400)
520980 SC	Maint. - Electronics	468	3,000	2,900	1,500	-50.0%	(1,500)
521201 SC	Electric Power	21,786	20,000	23,711	20,000	0.0%	0
Total		29,673	32,500	36,184	29,550	-9.1%	(2,950)
North Regional Interceptor							
520970 NRI	Maint. - Piping & Grnds.	0	500	345	500	0.0%	0
Total		0	500	345	500	0.0%	0
Total 270-2		29,673	33,000	36,529	30,050	-8.9%	(2,950)

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

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

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

Budget CY2021
 Operations & Maintenance
 270-3

EXPENSES

SRI / Valley View L.S.		Actual CY2019	Budgeted CY2020	Estimated CY2020	Budgeting CY2021	% Difference CY20-CY21	\$ Difference CY20-CY21
Valley View Lift Station							
520970 VV	Bldg. & Grnds. Support	1,671	700	800	700	0.0%	0
520975 VV	Maint. - Equipment	285	5,000	4,796	5,750	15.0%	750
520980 VV	Maint. - Electronics	0	1,000	1,200	500	-50.0%	(500)
521201 VV	Electric Power	12,035	13,000	11,237	13,000	0.0%	0
521203 VV	Water	1,414	2,000	1,782	2,000	0.0%	0
Total		15,404	21,700	19,815	21,950	1.2%	250
South Regional Interceptor							
520970	Maint. - Piping & Grnds.	1,671	500	250	500	0.0%	0
Total		1,671	500	250	500	0.0%	0
Total 270-3		17,075	22,200	20,065	22,450	1.0%	250

Capital

CY2021

FUND 40 CAPITAL FOOTNOTES

(1) **Proceeds From Borrowing (\$1,870,000):**

This line item depicts the borrowing in CY2021 to help fund the Biosolids Dewatering Improvements Project. The total amount being requested to borrow is estimated to be \$1,870,000. The total estimated 20-year Debt payment scheduled to begin in CY2022 for the project is \$2,297,762.

(2) **Demand Load Response Program (\$26,000)**

In CY2018 the EOC approved the Authority to enter into a Demand Load Response program. Since we have the ability to use the backup generators to remove ourselves from the power grid, the power companies ask that we remain available to do so in the event their demand is too high for any given period. For remaining available to do so we are granted some revenue. This is a 6-year program and will end in CY2023, at which point it may be renewed.

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

We a contract Waste Management to include delivering up to 42,000 gallons per day, five days per week at \$0.025/gallon. The Authority has been averaging 22,000 gallons per day which equates to approximately \$200,000/year in additional revenue. There are a couple reasons to leave a conservative number in for this item; if for any reason the leachate has any ill effects on the treatment process, Waste Management will halt all deliveries until the process recuperates. Also, leachate flow is heavily dependent on rainfall, so if less than average precipitation amounts are experienced, there will be a decrease in leachate revenue.

(4) **Fats Oil & Grease (FOG)/Industrial Waste Tipping Fees (\$75,000)**

In CY2016 upon the completion of the Combined Heat and Power Engines and the FOG receiving station, the EOC approved the acceptance of these materials in order to generate revenue (\$0.05/gallon). The program was put on a moratorium in August 2017 during a major biological upset, but was restarted again in April 2018 after thorough research into proper methods, and the program is expected to grow after proper demonstration.

(5) **Cell Tower Revenue (\$57,000):**

In CY2016 the Authority and the Village of Glen Ellyn negotiated with TowerCo to build a new tower capable of accepting up to four carriers.

The new tower was built in CY2017, and added Verizon as a carrier, therefore adding our anticipated revenue from leasing the land for the cellular tower. In CY2019 TowerCo/the Village allowed for T-Mobile to also be added, increasing the revenue from about \$53,000/year to \$75,000/year. However, T-Mobile still has yet to install their equipment, so the additional revenue has not been seen. There is no anticipated date for the equipment installation either, so a conservative number was chosen for this revenue item. This could be increased if an additional carrier signs onto the tower, as there is still room for one more carrier.

(6) Operating Surplus Transfers (\$181,469):

The EOC approved the audit reported CY2019 O&M surplus to be transferred to the Capital Fund 40 at the August 13, 2020 meeting.

(7) Capital Fund Contributions (\$3,677,461):

The Capital Improvement Fund 40 relies on dedicated contributions from both communities to support GWA capital expenses. Based on Facility Planning efforts during FY2013 and FY2014 the Capital Fund 40 will be increased annually based on project demands for an estimated 20 years. The current rate of increase for the Capital Fund is calculated at 1% annually which is a 1% increase compared to CY2020.

(8) Anaerobic Digester Improvement Project Debt Payment (\$637,000):

This is the principal and interest payment for the IEPA Loan utilized for the 2007-2013 installation of a new 80' digester at the Glenbard Plant. Also included in this project was some cleanup work from the BIP Project. The amount of the loan was \$7,543,026 to be paid back over fifteen (15) years at an interest rate of 2.5%. Substantial completion was awarded near the end of FY2011. Final Completion of the Anaerobic Digester Project was awarded in November 2013.

(9) Facility Improvement (FIP) Debt Payment Actual (Principal & Interest) (\$995,000)

This is the principal and interest payment for the IEPA loan utilized for the 2016 Facility Improvement Project, which included the installation of new tertiary filters, a new raw pump station, and new plant utilities. The total amount of the loan to be paid back is \$16,725,000 to be paid back over 20 years at an interest rate of 1.75%. Substantial Completion of this project is expected in July 2020.

(10) Rolling Stock (\$48,000):

GWA anticipates replacing one of it's two fork lift trucks in CY2021

(11) Small Capital Improvements (\$115,000):

This cost center provides for small capital improvements, such as miscellaneous equipment, materials and small projects. In CY2020, GWA budgeted \$85,000 for this line item.

(12) Infrastructure Improvements (\$51,000):

This cost center provides for various infrastructure improvements throughout the GWA Facilities, which would include underground work on various plant utilities. In CY2020, \$97,000 was budgeted for this item.

(13) Roof Replacements (\$47,000):

This year GWA will be performing minor roofing replacements at the Glenbard Plant while we evaluate the updated plan for future needs.

(14) Plant Equipment Rehabilitation (\$100,000):

This cost center provides for various equipment rehabilitations throughout the GWA Facilities, such as work on sewers and lift stations, and rehabilitating existing equipment. In CY2020, \$335,000 was budgeted for this item.

(15) Atmospheric Vaporizer Lease (\$20,000)

In CY2017 the Authority decommissioned its aging cryogenic plant that was used to create pure oxygen and begin hauling in liquid oxygen produced offsite. In order to meet the needs of this new process, atmospheric vaporizers were leased, as it was determined more cost effective to lease them than purchase them.

(16) Motor Control Center (MCC) Replacements (\$0)

Sufficient replacement funds should be established to support the rehabilitation and replacement efforts necessary to ensure continued operation of all equipment onsite, and to maintain safe electrical equipment. Based on the estimated replacement costs provided in the facility plan, it is recommended that the Authority budget to replace all of the identified equipment over the next ten years. In addition, it is recommended that as part of each capital improvements project that the Authority completes that the MCC's identified be incorporated into the scope of the project. The overall budgeted values should then be updated based on the improvements that have been completed at the end of each year. Typically, the capital fund would designate \$140,000 per year on this item, however the funds for CY2021 have been deferred in order to help supplement the Programming Logic Controller replacement costs (next item).

(17) Program Logic Controller (PLC) Replacements (\$216,000)

Sufficient replacement funds should be established to support the rehabilitation, repair, and replacement efforts necessary to ensure the continued future reliability of the aging instrumentation and control equipment, as well as to take advantage of new technology. Based on the estimated replacement costs provided, it is recommended that the Authority budget to replace all of the identified equipment over the next ten years. In addition, it is recommended that as part of each capital improvements project that the Authority completes that the PLC's identified be incorporated into the scope of the project. The overall budgeted values should then be updated based on the improvements that have been completed at the end of each year. Typically, the capital fund would designate \$130,000 per year for this item. However, after purchasing new PLC's in CY2020, GWA plans to have the PLC's installed in CY2021 for a cost of \$216,000. The previous item, MCC Replacements (typically \$140k/year), has been deferred in CY2021 so that the combination of the \$140,000 from that item and the \$130,000 from this item can cover the \$216,000 cost.

(18) Unox Deck Replacements (\$0)

Due to the age and condition of the equipment and structures on the unox deck, the high cost of complete replacement, and the strong possibility of needing a new process due to future regulations – the facility plan recommended budgeting \$100,000 over the next 10 years to anticipate various replacements for failed equipment and rehabilitation of structures. However, as part of the Electrical Distribution Rehabilitation there is also rehabilitation efforts being performed on the UNOX deck – therefore this cost was deferred for CY2021, and rediverted to the Distribution project.

(19) DuPage River Salt Creek Work Group (\$281,000):

The project initiatives that the East / West Branch DuPage River & Salt Creek watersheds are providing to the IEPA are imperative to the impacts of the nutrient standards relating to point source dischargers. The work group has been recognized by the IEPA as a leader in developing remediation to stream standards particularly relating to habitat improvements. The work group believes that stream remediation is the path to healthier streams and rivers versus the implementation of overly stringent nutrient discharge limits for phosphorus and total nitrogen. Educating communities about chloride utilization, storm water best management practices, and the discontinued use of coal tar sealants have also been important functions provided by this group. The IEPA has granted the Authority with first of two potential permit cycles (10) years without impending NPDES limits for phosphorus. If the Authority fails to support the assessed fees as agreed to per the commitment agreement with the DRSCWG we may be facing a phosphorus limit as low as .1 mg/l versus a 1.0 mg/l

(20) Electric Service Distribution System Rehabilitation Project (Construction \$2,379,000; Engineering: \$67,000):

Due to recent electrical failures this project had been moved up to be constructed in CY2019, but due to complexities in design, construction started in late CY2020. This was identified in our previous 5-year capital project plan in the Facility Plan as being needed. A RFQ/RFP process selected an engineer in CY2018 to perform the design and engineering. The low bid for this project came in at \$4,758,000, with engineering costs at \$134,000. The funds for this project were distributed evenly between CY2020 and CY2021

The electrical power distribution system is served from a single connection to the local electric utility's distribution system. In the event of loss of utility supply, three on-site 800 kW natural gas generators can produce ample power to serve the facility. The facility has two medium voltage underground distribution circuits, and either circuit can be used to serve all critical plant loads—from the utility or from the generators. However, the two underground circuits share common duct banks and common manholes. Thus, a single event could cause failure of both underground circuits. Alternatives to mitigate these single points of failure will be considered in the analyses. While all the critical plant loads are connected to both medium voltage underground distribution circuits, the Main Cryogenic Compressor and the Administration Building do not have redundant step-down transformers. Thus, a single failure of the step-down transformer to these loads will result in loss of critical power. Alternatives for a redundant transformer or back-up 480 V supply to these two critical loads will be addressed in the analyses. A previous power system study has identified that the protective devices in the supply to the Sludge Dewatering Building and the Digester Building are not appropriately rated to interrupt a worst-case short-circuit event. Appropriate equipment replacement will be addressed in the analyses. As part of the facility's existing maintenance and testing plan, plant staff periodically performs cable testing on the distribution network. The cables being tested must be isolated from the system prior to testing, and the act of cable disconnection (determination) is very time-consuming. Plant staff have expressed an interest in adding disconnect switches to specific circuits to reduce man-hours required to perform the cable testing. Alternatives for more efficient cable testing will be developed in the analyses. The site lighting is aging and appears to be corroding. Replacement of the site lighting will be included in this scope. Any potential incentives or grant funding related to the site lighting or other electrical work shall be explored as well.

(21) Biosolids Dewatering Equipment Replacement Engineering and Construction (\$100,000 & \$1,870,000)

The existing biosolids facility was constructed in 1977 and was last retrofitted in 1991. The majority of the dewatering equipment has an anticipated life of 20 years and is getting past the point of its useful life. The conceptual layout includes two new belt filter presses rated at 200-250 gpm to allow for dewatering only five hours per day, five days per week. The conveyors will be properly sized to convey dewatered sludge from both belt filter presses running simultaneously. The conveyor system will include multiple drop points to allow for discharge across the receiving trailer. A crane system will be included within the project. This budget items are to perform the design engineering of this project and assistance in obtaining an IEPA low interest loan, and prepare for construction in CY2021.

Budget CY2021
 Glenbard Treatment Facility
 Fund 40 Capital Plan
 Capital Improvements Detail

	Estimated CY2020	Budgeting CY2021
PROCEEDS FROM BORROWING	1,980,000	1,870,000
INVESTMENT INCOME	46,000	20,000
CONNECTION FEES - GLEN ELLYN	60,000	25,000
CONNECTION FEES - LOMBARD	16,000	25,000
ENERNOC DEMAND RESPONSE PROGRAM	23,494	26,000
LEACHATE REVENUE	195,801	117,000
FATS OIL & GREASE (FOG) / INDUSTRIAL WASTE TIPPING FEES	105,237	75,000
CELL TOWER REVENUE	60,000	57,000
OPERATING SURPLUS TRANSFERS	181,469	0
PRETREATMENT FINES	0	0
MISCELLANEOUS REVENUE	5,500	1,000
EQUIPMENT REPLACEMENT FUND		
	GLEN ELLYN - 45.28%	1,656,860
	LOMBARD - 54.73%	1,984,191
REVENUES TOTAL:	6,314,552	5,893,461
PRINCIPAL & INTEREST:		
IEPA FIP PRINCIPAL	702,042	702,042
IEPA FIP INTEREST	292,688	292,688
IEPA DIGESTER PRINCIPAL	545,395	559,115
IEPA DIGESTER INTEREST	91,607	77,887
PRINCIPAL & INTEREST TOTALS:	1,631,731	1,631,731
CAPITAL IMPROVEMENTS		
PROPERTY ACQUISITION		
	SPENT/ESTIMATED TO SPEND	0
		0
CAPITAL IMPROVEMENT PROJECTS		
VEHICLE AND EQUIPMENT REPLACEMENT	45,468	48,000
SMALL CAPITAL PROJECTS	40,000	115,000
INFRASTRUCTURE UPGRADES	50,000	50,600
ROOF REPLACEMENTS	268,000	47,000
PLANT EQUIPMENT REHABILITATION	135,000	100,000
CRYO MAINTENANCE/ATMOSPHERIC VAPORIZER PURCHASE OR LEASE	20,000	20,000
MCC REPLACEMENTS	0	0
PLC REPLACEMENTS	88,293	216,360
UNOX DECK REPLACEMENTS	0	0
GRIT PUMP & SCREENING WASHER/CONVEYOR REPLACEMENT	245,000	0
ADMINISTRATION BUILDING HVAC REHABILITATION CONSTRUCTION	998,000	0
ADMINISTRATION BUILDING HVAC REHABILITATION CONSTRUCTION ENGINEERING	64,000	0
DUPAGE RIVER SALT CREEK WORKGROUP ASSESSMENT	272,305	281,000
RAS PUMP STATION REHABILITATION	0	180,000
CARBO RAS PUMP REPLACEMENT	240,000	
FACILITY IMPROVEMENTS PROJECT	2,980,000	0
FACILITY IMPROVEMENTS PROJECT CONSTRUCTION ENGINEERING	180,000	0
BIOSOLIDS DEWATERING EQUIPMENT REPLACEMENT ENGINEERING	269,700	100,000
BIOSOLIDS DEWATERING EQUIPMENT REPLACEMENT CONSTRUCTION	0	1,870,000
ELECTRIC SERVICE DISTRIBUTION SYSTEM REHABILITATION PROJECT CON. ENG	66,550	66,550
ELECTRIC SERVICE DISTRIBUTION SYSTEM REHABILITATION PROJECT	2,379,000	2,379,000
CAPITAL IMPROVEMENTS TOTALS:	8,341,316	5,473,510
PRINCIPAL & INTEREST / CAPITAL IMPROVEMENTS TOTALS	9,973,047	7,105,241

**Glenbard Wastewater Authority
CY2021 Small Capital Improvement
40 580120**

Designation	Recommendations	CY20 Budgeted	CY21 Budgeting
	Miscellaneous Office Furniture Upgrades	2,000	2,000
	Health & Wellness- Exercise Equipment Upgrades	1,000	1,000
	Software Upgrades (OS & Application)	5,000	5,000
	Workstation Replacements SCADA & LAN	5,000	2,000
	CRAS/Electronics Building Rooftop A/C Replacement	0	10,000
	Final RAS Header Repair		10,000
	Grinder Exchange Program	25,000	25,000
	Metal Stock and Metal for Various Projects	5,000	5,000
	PVC Pipe, Fittings and Valves	5,000	5,000
	PRV Covers	4,000	4,000
	Combined Heat & Power Spare Parts	10,000	10,000
	Screw Pump - Lower Bearing Replacement	10,000	10,000
	Property Boundary Landscape Clearing/Improvements	7,000	0
	UVT Study	0	20,000
	Miscellaneous Laboratory Equipment	6,000	6,000
	Grand Total	\$85,000	\$115,000

**Glenbard Wastewater Authority
CY2021 Infrastructure Improvement
40 580140**

Designation	Recommendations	CY20 Budgeted	CY21 Budgeting
	Campus Surveillance System	5,000	5,000
	Hydraulic Modeling Study	60,000	43,600
	HSW Improvements/Modifications	25,000	0
	Roof Replacement Consulting	7,000	2,000
	Grand Total	\$97,000	\$50,600

**Glenbard Wastewater Authority
 CY2021 Plant Equipment Rehabilitation
 40 580150**

Designation	Recommendations	CY20 Budgeted	CY21 Budgeting
Glenbard Plant	Moyno Pumps Spare Parts (Total of 10 Moyno Pumps)	25,000	25,000
	Annual Collection System Rehabilitation Funding (Televising, Repairs, etc.)	200,000	10,000
	Clarifier Mechanism and Bridge Painting	0	0
	Siloxane and Hydrogen Sulfide Media Replacement	50,000	50,000
	Grit Chamber Rehabilitation - Steel, Redwood, Chain & Sprockets	10,000	5,000
	Concrete Lining System	0	0
	Annual Lift Station Rehabilitation Funding	50,000	10,000
	Grand Total	\$335,000	\$100,000

Glenbard Wastewater Authority Roof Replacement Schedule
CY 2021 -- Roof Replacement Cost Based on \$28/ sq. ft.

Building Code	Building Description	Roof Installation Year	Known Issues	Existing Roof Type	2017 Showalter Useful Life	Recommended Replacement Type	Square Footage	Warranty Expires	Scheduled Assessment	Scheduled Replacement	Roof Replacement Estimation
L	Filter	1997		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	2 - 3	Existing Type	12,912	Expired	2019	2020	\$ 361,536
E	Scum	1997		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	1 - 5	Existing Type	1,050	Expired	2019	2021	\$ 30,576
G	ATAD	1999		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	3 - 5	Existing Type	540	Expired	2019	2021	\$ 15,725
A	Bar Screen	1993		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	3 - 5	Existing Type	1,500	Expired	2019	2022	\$ 45,427
J	Pump & Metering	1996		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	3 - 5	Existing Type	1,224	Expired	2019	2022	\$ 37,069
N	Warehouse	1998		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	2 - 3	Existing Type	2,490	Expired	2019	2022	\$ 75,409
CSO-C	Tin Shed	unknown	Leaks	unknown		Standing Metal Seam	1,024	Expired	2019	2022	\$ 31,012
B	Raw Pump	2008		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	3 - 5	Existing Type	3,575	Expired	2022	2025	\$ 121,787
U	Digesters	2005/2008		White, Thermoplastic (TPO) Fully Adhered EPDM	6 - 10	Existing Type	5,500	Expired	2022	2026	\$ 194,859
S	Maint. Shop	2008		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	6 - 10	Existing Type	6,460	Expired	2022	2027	\$ 238,026
Q	Cryo	2010		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	5 - 10	Existing Type	2,400	2020	2022	2028	\$ 91,968
D	Pri. Diversion	2010		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	12 - 15	Existing Type	207	2020	2022	2029	\$ 8,250
F	Unox	2010		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	12 - 15	Existing Type	608	2020	2022	2029	\$ 24,230
H	Screw	2010		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	12 - 15	Existing Type	1,020	2020	2022	2029	\$ 40,650
P	Truck Bay (Lower Roof)	2010		Fully adhered white, TPO		Existing Type	323	Expired	2022	2030	\$ 13,387
P	FOG Tank (Lower Roof)	2010		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface		Existing Type	722	2020	2022	2030	\$ 29,925
R	Admin	2012		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	5 - 8	Existing Type	6,996	2022	2022	2031	\$ 301,561
C	Grit	2012		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	12 - 15	Existing Type	1,227	2022	2022	2032	\$ 55,005
V	CoGen	2012	Leaks	4 ply, fiberglass felts, Type VI in asphalt w/gravel surface	10 - 15	Existing Type	2,552	2022	2019	2032	\$ 114,403
CSO-A	A Raw Pump (South Building)	2012		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface		Existing Type	3,025	2022	2022	2033	\$ 141,032
CSO-B	B Grit (North Building)	2012		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface		Existing Type	1,600	2022	2022	2033	\$ 74,595
Y	CHP	2016		Black/White Fully adhered, TPO		Existing Type	3,948	2026	2022	2034	\$ 191,426
LS-St. Ch	St. Charles Rd LS	2011		Standing Metal Seam		Existing Type	896	2021	2022	2040	\$ 54,971
LS-VV	Valley View LS	2015		Standing Metal Seam		Existing Type	2,500	2025	2022	2040	\$ 153,379
T	CRAS / Electronics	2018		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface		Existing Type	2,915	2038	2038	2048	\$ 244,754
P	Press (Upper Roof)	2018		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface		Existing Type	2,750	2038	2038	2048	\$ 230,900
O	UV	2019		4 ply, fiberglass felts, Type VI in asphalt w/gravel surface		Existing Type	4,250	2039	2039	2049	\$ 371,120
Z	SRI	2019		Asphalt Shingle		Existing Type	1,000	2039	2039	2049	\$ 87,322

Year	Annual Total		TOTAL BUDGET
	Assessment Cost	Replacement Cost	
2020	\$ -	\$ 361,536	\$ 362,000
2021	\$ -	\$ 46,301	\$ 47,000
2022	\$ 3,200	\$ 188,917	\$ 193,000
2023	\$ -	\$ -	\$ -
2024	\$ -	\$ -	\$ -
2025	\$ -	\$ 121,787	\$ 122,000
2026	\$ -	\$ 194,859	\$ 195,000
2027	\$ -	\$ 238,026	\$ 239,000
2028	\$ -	\$ 91,968	\$ 92,000
2029	\$ -	\$ 73,130	\$ 74,000
2030	\$ 5,000	\$ 43,312	\$ 49,000
2031	\$ -	\$ 301,561	\$ 302,000
2032	\$ -	\$ 169,408	\$ 170,000
2033	\$ -	\$ 215,627	\$ 216,000
2034	\$ -	\$ 191,426	\$ 192,000
2035	\$ -	\$ -	\$ -
2036	\$ -	\$ -	\$ -
2037	\$ -	\$ -	\$ -
2038	\$ 400	\$ -	\$ 1,000
2039	\$ 400	\$ -	\$ 1,000
2040	\$ -	\$ 208,350	\$ 209,000
2041	\$ -	\$ -	\$ -
2042	\$ -	\$ -	\$ -
2043	\$ -	\$ -	\$ -
2044	\$ -	\$ -	\$ -
2045	\$ -	\$ -	\$ -
2046	\$ -	\$ -	\$ -
2047	\$ -	\$ -	\$ -
2048	\$ -	\$ 475,654	\$ 476,000
2049	\$ -	\$ 458,442	\$ 459,000
2050	\$ -	\$ -	\$ -
2051	\$ -	\$ -	\$ -
2052	\$ -	\$ -	\$ -
2053	\$ -	\$ -	\$ -
2054	\$ -	\$ -	\$ -
2055	\$ -	\$ -	\$ -
2056	\$ -	\$ -	\$ -

Unit No.	Purchase Year	Unit Description	Scheduled Replacement	Purchased Price	Anticipated Sale Income	Appreciated Planned Year Purchase Cost*	Total Replacement Cost	Year	Annual Vehicle Budget
627	2005	Ford Utilimaster Low Cube (Electrical - orig. 2017)	2020	\$ 29,300	\$ -	\$ 39,434	\$ 39,434	HOLD	\$ 294,000
612	1998	Daewoo Fork Lift	2021	\$ 30,000	\$ -	\$ 47,307	\$ 47,307	2020	\$ 40,000
643	2012	F250 Pick Up w/plow (Fuel Truck)	2022	\$ 29,799	\$ -	\$ 36,325	\$ 36,325	2021	\$ 48,000
610	2002	John Deere Wheel Loader	2022	\$ 86,500	\$ -	\$ 128,534	\$ 128,534	2022	\$ 165,000
644	2012	Crane Truck	2023	\$ 122,375	\$ -	\$ 152,158	\$ 152,158	2023	\$ 210,000
642	2010	Dodge Grand Caravan	2023	\$ 19,916	\$ -	\$ 25,763	\$ 25,763	2024	\$ 315,000
637	2009	Bobcat Skidsteer	2023	\$ 24,018	\$ -	\$ 31,691	\$ 31,691	2025	\$ 137,000
TBN	2017	Polaris Gem eM1400 (Dump Bed Cart)	2024	\$ 14,532	\$ -	\$ 16,693	\$ 16,693	2026	\$ 141,000
TBN	2017	Polaris Gem eM1400 (Cart)	2024	\$ 14,831	\$ -	\$ 17,036	\$ 17,036	2027	\$ -
648	2015	Explorer (Director's Vehicle - 7 year cycle)	2024	\$ 27,659	\$ -	\$ 33,055	\$ 33,055	2028	\$ -
611	2004	Volvo Semi-Tractor	2024	\$ 76,425	\$ -	\$ 113,564	\$ 113,564	2029	\$ -
646	2014	F350 Maintenance Truck	2024	\$ 62,816	\$ -	\$ 76,572	\$ 76,572	2030	\$ -
647	2014	F450 Dump Truck with Plow	2024	\$ 47,052	\$ -	\$ 57,356	\$ 57,356	2031	\$ -
625	2016	Vac-Tron Vacuum Trailer with Jetter	2025	\$ 77,497	\$ -	\$ 92,616	\$ 92,616	2032	\$ 26,000
649	2015	F350 with Utilimaster Body (Electric)	2025	\$ 35,875	\$ -	\$ 43,731	\$ 43,731	2033	\$ -
605	2016	C-Max Hybrid (Pretreatment)	2026	\$ 24,294	\$ -	\$ 29,614	\$ 29,614	2034	\$ -
630	2006	Tandem Dump Trailer	2026	\$ 37,181	\$ -	\$ 55,249	\$ 55,249	2035	\$ 62,000
633	2006	Godwin 8" Trailer Mounted Pump	2026	\$ 37,181	\$ -	\$ 55,249	\$ 55,249	2036	\$ -
600	2017	Bobcat 250 EFI (Mounted on Crane Truck)	2032	\$ 4,570	\$ -	\$ 6,151	\$ 6,151	2037	\$ -
606	2017	Milleromatic 350P w/Gun Push-Pull XR-A Aluma-Pro	2032	\$ 5,699	\$ -	\$ 7,670	\$ 7,670	2038	\$ -
620	2017	Miller TIG/Stick Dynasty 350	2032	\$ 8,946	\$ -	\$ 12,040	\$ 12,040	2039	\$ -
627	2020	Ford F-350 XL 4x2 Chassis Cab w/enclosed utility body (Electric)	2035	\$ 45,468	\$ -	\$ 61,194	\$ 61,194	2040	\$ -
628	1985	Bridgeport Vertical Milling Machine	HOLD	\$ 3,750	\$ -	\$ 8,280	\$ 8,280	2041	\$ -
623	1993	MEC Scissor Lift	HOLD	\$ 3,950	\$ -	\$ 7,444	\$ 7,444	2042	\$ -
617	1997	Pace Trailer (Confined Space)	HOLD	\$ 29,687	\$ -	\$ 51,686	\$ 51,686	2043	\$ -
616	2001	Ingersol-Rand Trailer Air Compressor	HOLD	\$ 15,000	\$ -	\$ 24,127	\$ 24,127	2044	\$ -
618	2003	Miller Trailblazer Welding Machine (Crane Truck)	HOLD	\$ 6,823	\$ -	\$ 10,548	\$ 10,548	2045	\$ -
632	2006	Doosan/Daewoo Fork Lift	HOLD	\$ 27,200	\$ -	\$ 39,625	\$ 39,625	2046	\$ -
635	2007	Salt Dog Salt Spreader	HOLD	\$ 3,456	\$ -	\$ 4,936	\$ 4,936	2047	\$ -
638	2009	Bobcat Skid Steer Backhoe Attachment	HOLD	\$ 6,683	\$ -	\$ 9,174	\$ 9,174	2048	\$ -
641	2009	Bobcat Skid Steer Sweeper Attachment	HOLD	\$ 2,403	\$ -	\$ 3,299	\$ 3,299	2049	\$ -
629	2013	Knuth Metal Cutting Lathe	HOLD	\$ 10,595	\$ -	\$ 13,437	\$ 13,437	2050	\$ -
619	2017	Miller Spectrum Plasma Cutting Machine	HOLD	\$ 1,725	\$ -	\$ 2,021	\$ 2,021	2051	\$ -
645	2012	Transfer Flow Fuel Tanks (Unleaded/Diesel on 643)	HOLD	\$ 2,443	\$ -	\$ 3,160	\$ 3,160	2052	\$ -
620*	1993	Miller - Shopmaster 300 Welding Generator (TIG)	HOLD	\$ 2,300	\$ -	\$ 4,334	\$ 4,334	2053	\$ -
606*		New MIG Welder	HOLD	\$ -	\$ -	\$ -	\$ -	2054	\$ -
634*	2008	Bobcat Utility Cart	HOLD	\$ 18,079	\$ -	\$ 25,315	\$ 25,315	2055	\$ -
640*	2009	Bobcat Utility Cart	HOLD	\$ 15,924	\$ -	\$ 21,860	\$ 21,860	2056	\$ -
615	2001	Mersino 4" Trailer Mounted Pump	HOLD	\$ 32,730	\$ -	\$ 52,644	\$ 52,644	2057	\$ -
621	2003	Alladin Hot Water Pressure Washer	HOLD	\$ 7,359	\$ -	\$ 11,377	\$ 11,377	2058	\$ -

Appendix

CY2021

GLENBARD WASTEWATER AUTHORITY EQUIPMENT REPLACEMENT FUND

FUND 40		Actual CY19 Bdgt	Approved CY20 Bdgt	Estimated CY20 Bdgt	Budgeting CY21 Bdgt
5966	Equipment Replacement Flow Split - Total = Half of the Whole	1,767,500	1,820,525	1,820,525	1,838,730
	* Glen Ellyn Flow Split - 40.55%	752,248	746,597	746,597	745,605
	* Lombard Flow Split - 59.45%	1,015,252	1,073,928	1,073,928	1,093,125
	Equipment Replacement Split in Equity - Total = Half of the Whole	1,767,500	1,820,525	1,820,525	1,838,730
	Glen Ellyn Flow Split - 50%	883,750	910,263	910,263	919,365
	Lombard Flow Split - 50%	883,750	910,263	910,263	919,365
	Total	3,535,000	3,641,050	3,535,000	3,677,461

				Total Contributions	Percentage by Contribution
Total Glen Ellyn Equipment Replacement Fund Contribution:		1,635,998	1,656,860	1,656,860	45.28%
Total Lombard Equipment Replacement Fund Contribution:		1,899,002	1,984,190	1,984,191	54.73%

* Indicates Current 5 Year Avg. Flow Split for CY2021

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%		Fund 27 NRI 2.1%		Total Budgeted Contribution	IFT Transfers to Fund 28	NRI Flowsplits	Fund 27 SRI 1.3%	IFT Transfers to Fund 28	Actual Contributions	Total to Fund 28	Fund 28 % Increase	Total Glen Ellyn	Total Lombard	Accumulated Funding
	Glen Ellyn	Lombard				Glen Ellyn	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	\$ 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	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	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	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		9,148.10	9,000.00	675,124.10	705,000.00	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		9,790.30	9,600.00	795,977.30	753,100.00	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		8,191.30	8,100.00	647,392.30	630,100.00	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		8,607.20	8,500.00	626,616.20	662,092.00	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		9,035.00	8,900.00	713,718.00	695,000.00	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		9,490.00	9,300.00	704,507.00	730,000.00	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		9,964.50	9,800.00	709,945.50	766,500.00	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		10,465.00	9,800.00	771,362.00	804,100.00	294,314.00	477,048.00	7,018,717.00	
TOTALS	\$ 3,105,199.13	\$ 3,219,121.00	\$ 6,324,320.13	\$ 5,938,292.00		\$ 915,231.48	\$ 842,050.00	\$ 52,634.00	\$ 107,327.00	\$ 159,961.00	\$ 149,750.00		\$ 99,134.38	\$ 88,625.00	\$ 7,498,646.99	\$ 7,018,717.00	\$ 3,256,967.51	\$ 4,241,679.48		

Original Fund 40 FY1998 through FY2010

Fiscal Year	Glenbard 84.6%		Glenbard Flowsplits	Stormwater 12%	NRI 2.1%		NRI Flowsplits	SRI 1.3%	Actual Contributions	Percentage Increase	Total 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	34.10/65.90	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	Division 41	Fund 42	Fund 43	Fund 44	Fund 45	Fund 46	Fund 47	Actual Contributions	Percentage Increase	Total Glen Ellyn	Total Lombard	Accumulated Funding
	Glenbard Plant 66.7%	Stormwater Plant 12%	NRI 6.9%	SRI 3.1%	St. Charles Rd L.S 6.7%	Valley View L.S 2%	SRI L.S 2%	Sunnyside L.S .5%					
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 CY2030

Fiscal Year	Glen Ellyn Split 50/50		Lombard Split 50/50	1/2 Half of Actual	Glen Ellyn Split By Flow		Lombard Split By Flow	% Flow Split By Partner	1/2 Half of Actual	Actual Contributions	Percentage Increase	Total Glen Ellyn	Total Lombard	Accumulated Funding
	Split 50/50	Split 50/50			Split By Flow	Split By Flow								
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)	875,000.00	875,000.00	1,750,000.00	777,875.00	972,125.00	44.45 / 55.55	1,750,000.00	3,500,000.00	3%	\$ 1,652,875.00	\$ 1,847,125.00	\$ 52,847,739.00		
CY(2019)	883,750.00	883,750.00	1,767,500.00	752,248.00	1,015,252.00	42.56 / 57.44	1,767,500.00	3,535,000.00	1.0%	\$ 1,635,998.00	\$ 1,899,002.00	\$ 56,382,739.00		
CY(2020)	910,262.50	910,262.50	1,820,525.00	746,597.30	1,073,927.70	41.01/58.99	1,820,525.00	3,641,050.00	3.0%	\$ 1,656,859.80	\$ 1,984,190.20	\$ 60,023,789.00		
CY(2021)*	919,365.13	919,365.13	1,838,730.25	745,605.12	1,093,125.13	40.55/59.45	1,838,730.25	3,677,460.50	1.0%	\$ 1,664,970.24	\$ 2,012,490.26	\$ 63,701,249.50		
CY(2022)	928,558.78	928,558.78	1,857,117.55	742,847.02	1,114,270.53	40/60	1,857,117.55	3,714,235.11	1.0%	\$ 1,671,405.80	\$ 2,042,829.31	\$ 67,415,484.61		
CY(2023)	937,844.36	937,844.36	1,875,688.73	750,275.49	1,125,413.24	40/60	1,875,688.73	3,751,377.46	1.0%	\$ 1,688,119.86	\$ 2,063,257.60	\$ 71,166,862.06		
CY(2024)	947,222.81	947,222.81	1,894,445.62	757,778.25	1,136,667.37	40/60	1,894,445.62	3,788,891.23	1.0%	\$ 1,705,001.05	\$ 2,083,890.18	\$ 74,955,753.29		
CY(2025)	956,695.04	956,695.04	1,913,390.07	765,356.03	1,148,034.04	40/60	1,913,390.07	3,826,780.14	1.0%	\$ 1,722,051.06	\$ 2,104,729.08	\$ 78,782,533.43		
CY(2026)	966,261.99	966,261.99	1,932,523.97	773,009.59	1,159,514.38	40/60	1,932,523.97	3,865,047.94	1.0%	\$ 1,739,271.57	\$ 2,125,776.37	\$ 82,647,581.38		
CY(2027)	975,924.61	975,924.61	1,951,849.21	780,739.68	1,171,109.53	40/60	1,951,849.21	3,903,698.42	1.0%	\$ 1,756,664.29	\$ 2,147,034.13	\$ 86,551,279.80		
CY(2028)	985,683.85	985,683.85	1,971,367.70	788,547.08	1,182,820.62	40/60	1,971,367.70	3,942,735.41	1.0%	\$ 1,774,230.93	\$ 2,168,504.47	\$ 90,494,015.21		
CY(2029)	995,540.69	995,540.69	1,991,081.38	796,432.55	1,194,648.83	40/60	1,991,081.38	3,982,162.76	1.0%	\$ 1,791,973.24	\$ 2,1			

CY(2036)	1,067,354.37	1,067,354.37	2,134,708.74	853,883.50	1,280,825.24	40/60	2,134,708.74	4,269,417.48	1.0%	\$ 1,921,237.86	\$ 2,348,179.61	\$ 123,488,903.99
CY(2037)	1,078,027.91	1,078,027.91	2,156,055.82	862,422.33	1,293,633.49	40/60	2,156,055.82	4,312,111.65	1.0%	\$ 1,940,450.24	\$ 2,371,661.41	\$ 127,801,015.63
CY(2038)	1,088,808.19	1,088,808.19	2,177,616.38	871,046.55	1,306,569.83	40/60	2,177,616.38	4,355,232.77	1.0%	\$ 1,959,854.74	\$ 2,395,378.02	\$ 132,156,248.40
CY(2039)	1,099,696.27	1,099,696.27	2,199,392.55	879,757.02	1,319,635.53	40/60	2,199,392.55	4,398,785.09	1.0%	\$ 1,979,453.29	\$ 2,419,331.80	\$ 136,555,033.50
CY(2040)	1,110,693.24	1,110,693.24	2,221,386.47	888,554.59	1,332,831.88	40/60	2,221,386.47	4,442,772.94	1.0%	\$ 1,999,247.83	\$ 2,443,525.12	\$ 140,997,806.44
CY(2041)	1,121,800.17	1,121,800.17	2,243,600.34	897,440.13	1,346,160.20	40/60	2,243,600.34	4,487,200.67	1.0%	\$ 2,019,240.30	\$ 2,467,960.37	\$ 145,485,007.11
TOTALS	\$ 11,022,998.61	\$ 11,022,998.61		\$ 10,217,784.19	\$ 13,760,736.99			\$ 63,807,623.36		\$ 64,647,296.39	\$ 79,115,558.34	

* Indicates Actual 5 Year Flow Split

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
- ~ SY2014, contribution which was originally the FY2015 contribution was scheduled to be \$2,970,000 based on a 12 month fiscal year. With the change to a calendar year format FY2015 was modified to a Stub Year (SY) due to the 8 month budget. The scheduled contribution for capital improvements for FY2015 of \$2,970,000 was reduced by 33% or 829,800 for a total contribution of \$1,960,200. This is shown as a 38% reduction on the schedule above. The following year CY2015 the contribution continues as scheduled indicating a \$1,306,800 or 40% increase over SY2014
- ~ CY2016 The Capital Equipment Replacement Fund 40 continues utilizing the 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
- ~ CY2019 Proposed 1% increase has been requested

Glenbard Wastewater Authority
Summary of Projected Future Debt Service Payments
As of January 1, 2021

	Digester Project	Facility Improvements Project	Total Debt Service
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	995,684
CY35		995,684	995,684
CY36		995,684	995,684
CY37		995,684	995,684
CY38		995,684	995,684
CY39		995,684	995,684
CY40			0
CY41			0
CY42			0
CY43			0
CY44			0
CY45			0
CY46			0
CY47			0
CY48			0
CY49			0
CY50			0
CY51			0
CY52			0
CY53			0
CY54			0
CY55			0
	4,777,508	19,913,680	23,695,504

**Budget CY2021
Anaerobic Digester
Loan # L17-287400**

**IEPA Loan - Payback Schedule
Interest Rate: 2.5%**

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

<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.

**Calendar Year 2021
Position Classification**

ADMINISTRATION	Salary Range	CY 17	CY 18	CY 19	CY 20	CY 21
Executive Director	S	1	1	1	1	1
Engineering, Assistant Executive Director	Q	1	1	1	1	1
Enviromental Resources Coordinator	I	1	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		4	4	4	4	4
PT Employee Totals		1	1	1	1	1
FTE Totals		4.25	4.25	4.25	4.25	4.25
Operations						
Operations Superintendent	N	1	1	1	1	1
Plant Operator I	I	2	2	3	3	3
Plant Operator II	H	0	0	0	0	0
Plant Operator III	G	0	0	0	0	0
Plant Operator IV	F	2	2	1	1	1
Operator-in-Training	E	0	0	0	0	0
Operator PT - FTE = 1.0	E	5	5	5	5	5
Laboratory Services Coordinator	K	N/A	1	1	1	1
Wastewater Laboratory Technician	I	1	0	0	0	0
PT Laborer - FTE = .50	D	1	1	1	1	1
FT Employee Totals		6	6	6	6	6
PT Employee Totals		6	6	6	6	6
FTE Totals		7.5	7.5	7.5	7.5	7.5
MECHANICAL MAINTENANCE						
Mechanical Maintenance Superintendent	N	1	1	1	1	1
Maintenance Mechanic I	I	1	1	1	1	1
Maintenance Mechanic II	G	2	1	1	1	1
Maintenance Mechanic III	F	0	1	1	1	1
FT Employee Totals		4	4	4	4	4
PT Employee Totals		0	0	0	0	0
FTE Totals		4	4	4	4	4
ELECTRICAL MAINTENANCE						
Electrical Superintendent	N	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		17	17	17	17	17
Total PT/Seasonal Employees		7	7	7	7	7
Total Full Time Equivalent (FTE)		18.75	18.75	18.75	18.75	18.75

Glenbard Wastewater Authority
 Salary Schedule - January 1, 2021 through December 31, 2021

Range	Annualized				Hourly		
	Min	Mid	Max		Min	Mid	Max
CY21 Salary Schedule Adjustment = 1% Increase to Salary Ranges from CY20							
A	37,877	47,709	57,518	-	18.21	22.94	27.65
B	39,728	50,072	60,394		19.10	24.07	29.04
C	41,734	52,614	63,493		20.06	25.29	30.53
D	43,807	55,200	66,592		21.06	26.54	32.02
E	46,015	58,009	70,003		22.12	27.89	33.66
F	48,333	60,929	73,525		23.24	29.29	35.35
G	50,785	63,983	77,181		24.42	30.76	37.11
H	53,327	67,194	81,038		25.64	32.30	38.96
I	55,980	70,560	85,118		26.91	33.92	40.92
J	58,744	74,038	89,331		28.24	35.60	42.95
K	61,709	77,783	93,857		29.67	37.40	45.12
L	64,831	81,662	98,494		31.17	39.26	47.35
M	68,019	85,698	103,354		32.70	41.20	49.69
N	71,430	89,978	108,526		34.34	43.26	52.18
O	75,086	94,637	114,189		36.10	45.50	54.90
P	78,831	99,319	119,807		37.90	47.75	57.60
Q	82,688	104,179	125,670		39.75	50.09	60.42
R	86,901	109,507	132,091		41.78	52.65	63.51
S	91,226	114,969	138,690		43.86	55.27	66.68

TABLE 1. TOTAL WASTEWATER FLOWS AND PERCENTAGES FOR CY2021 BUDGET

	MONTH	TOTAL FLOW MILLION GALS (MG)	GLEN ELLYN FLOW (MG)	PERCENT OF TOTAL	LOMBARD FLOW (MG)	PERCENT OF TOTAL
Y e a r O n 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%
Y e a r T w o	Jan-16	448.026	198.793	44.37%	249.233	55.63%
	Feb-16	353.109	159.869	45.27%	193.240	54.73%
	Mar-16	463.285	192.650	41.58%	270.635	58.42%
	Apr-16	404.293	180.648	44.68%	223.645	55.32%
	May-16	606.741	253.696	41.81%	353.045	58.19%
	Jun-16	359.676	154.490	42.95%	205.186	57.05%
	Jul-16	328.681	138.818	42.23%	189.863	57.77%
	Aug-16	330.953	139.356	42.11%	191.597	57.89%
	Sep-16	252.565	109.721	43.44%	142.844	56.56%
	Oct-16	323.385	136.770	42.29%	186.615	57.71%
	Nov-16	280.226	124.145	44.30%	156.081	55.70%
	Dec-16	333.522	150.090	45.00%	183.432	55.00%
Y e a r T h r e e	Jan-17	384.403	156.180	40.63%	228.223	59.37%
	Feb-17	283.491	121.309	42.79%	162.182	57.21%
	Mar-17	428.291	163.067	38.07%	265.224	61.93%
	Apr-17	498.452	192.400	38.60%	306.052	61.40%
	May-17	524.012	218.211	41.64%	305.801	58.36%
	Jun-17	309.589	115.265	37.23%	194.324	62.77%
	Jul-17	313.630	112.004	35.71%	201.626	64.29%
	Aug-17	228.498	84.021	36.77%	144.477	63.23%
	Sep-17	201.378	75.029	37.26%	126.349	62.74%
	Oct-17	577.263	187.698	32.52%	389.565	67.48%
	Nov-17	391.068	136.452	34.89%	254.616	65.11%
	Dec-17	276.902	94.246	34.04%	182.656	65.96%
Y e a r F o u r	Jan-18	381.492	122.602	32.14%	258.890	67.86%
	Feb-18	502.867	175.046	34.81%	327.821	65.19%
	Mar-18	373.514	138.570	37.10%	234.944	62.90%
	Apr-18	372.669	141.336	37.93%	231.333	62.07%
	May-18	481.336	186.327	38.71%	295.009	61.29%
	Jun-18	477.075	186.258	39.04%	290.817	60.96%
	Jul-18	251.469	106.069	42.18%	145.400	57.82%
	Aug-18	280.070	103.967	37.12%	176.103	62.88%
	Sep-18	290.026	110.434	38.08%	179.592	61.92%
	Oct-18	459.853	124.849	27.15%	335.004	72.85%
	Nov-18	295.224	123.642	41.88%	171.582	58.12%
	Dec-18	382.605	161.226	42.14%	221.379	57.86%
Y e a r F i v e	Jan-19	318.896	138.933	43.57%	179.963	56.43%
	Feb-19	451.171	172.314	38.19%	278.857	61.81%
	Mar-19	395.588	157.321	39.77%	238.267	60.23%
	Apr-19	467.686	177.686	37.99%	290.000	62.01%
	May-19	762.655	293.351	38.46%	469.304	61.54%
	Jun-19	323.629	142.766	44.11%	180.863	55.89%
	Jul-19	268.093	121.928	45.48%	146.165	54.52%
	Aug-19	247.046	105.654	42.77%	141.392	57.23%
	Sep-19	306.237	121.314	39.61%	184.923	60.39%
	Oct-19	417.528	180.472	43.22%	237.056	56.78%
	Nov-19	335.586	144.345	43.01%	191.241	56.99%
	Dec-19	320.896	128.362	40.00%	192.534	60.00%
AVERAGE		378.927	152.981	40.55%	225.946	59.45%

AVERAGED WASTEWATER FLOWS UTILIZED FOR BUDGET

