

GLENBARD WASTEWATER AUTHORITY

Executive Oversight Committee

Agenda

June 14, 2018

8:00 a.m.

Meeting will be held at the Glenbard Wastewater Plant
945 Bemis Rd, Glen Ellyn, IL

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

Motion the EOC to approve the following items including Payroll and Vouchers for the Month of April and May 2018 totaling \$1,521,815.17 (Trustee Enright).

- 5.1 Executive Oversight Committee Meeting Minutes:
April 12, 2018 EOC Meeting
- 5.2 Vouchers Previously Reviewed by:
April and May 2018 – Trustee Enright
- 5.3 Approval of 4” Trash Pump Purchase

On May 31, 2018 the Authority received and publicly opened bids for a new 4” portable trash pump purchase. The bid had been publicly advertised in the Daily Herald and was budgeted for replacement this year. The Village of Glen Ellyn’s Fleet Maintenance inspected the Authority’s existing 2001 4” pump and is in agreement that due to its age and number of running hours, it is in need of replacement. The low bidder was Mersino in the amount of \$32,730.

Therefore, it is recommended the EOC award Mersino the 4” pump purchase in the amount of **\$32,730**. This amount will be taken out of the designated amount in CY2018 Approved Budget, Fund 40 Vehicle and Equipment Replacement, which is currently budgeted at \$23,962.

6. Approval of Televising Contract

In April 2018 Authority staff worked with the Village of Lombard, who developed and sent out a request for qualifications and technical proposals for Large Diameter Sewer Inspection/Assessment. The due date for the proposals was April 17, 2018.

The Authority received three sets of qualifications and technical proposals in response to the RFP that was sent out, along with prices. Attached is a spreadsheet containing the bid prices. The apparent low bidder is Red Zone Robotics. The proposed bid and contract were reviewed by the TAC. All references were checked and are satisfactory.

Therefore, it is recommended the EOC award Red Zone Robotics the 2018 Large Diameter Sewer Inspection/Assessment Contract in the amount not to exceed **\$135,912.50**. This amount will be taken out of the designated amount in CY2018 Approved Budget, Fund 40 580150 Plant Equipment Rehabilitation, which is currently budgeted at \$100,000.

7. CY2017 Audit Report

Attached is the Annual Audited Financial Statements for the Glenbard Wastewater Authority for the fiscal year that ended December 31, 2017. Financial highlights for the Authority's fiscal year 2017 (FY2017) are presented on pages MD&A2 and MD&A3 of the report. A complete narrative summary of the Authority's operations and financial position is found in Management's Discussion and Analysis on pages MD&A1 through 9. I will present highlights of the financial report during the EOC meeting and our audit partner, Jamie Wilkey, will present the auditor's opinion.

Motion to accept the Audited Financial Statements of the Glenbard Wastewater Authority for the fiscal year ended December 31, 2017 and to forward the audit report to the full Authority Board for final approval at the next annual meeting.

Motion to distribute the operating surplus of \$159,394 in a manner determined by the Executive Oversight Committee.

8. Approval of Administration Building HVAC Rehabilitation Design

In February 2018 Authority staff developed and sent out a request for qualifications and technical proposals to our six shortlisted professional consulting firms for the 2018 Administration Building HVAC Rehabilitation Design. The due date for the proposals was April 6, 2018. The existing control system is pneumatic and requires manual intervention for seasonal changes with no external alarming or control. Outside of the chiller package and duct heater, which were replaced in 1994, the remainder of the equipment has been in operation since the 1977 plant improvement. Any potential incentives or grant funding related to the project shall be explored as well, as it is suspected many are available.

The Authority received two sets of qualifications and technical proposals in response to the RFQ/RFP that was sent out, at which point staff performed reviews of the proposals and selected Strand Associates, Inc. to perform the work. After the selection was made a cost proposal was submitted for \$125,000 which staff was able to negotiate down to a not to exceed price of \$99,000.

During a TAC meeting the Village of Lombard raised concerns about the high cost of design and mentioned other routes that could be taken, such as considering the other proposal that was received, or going a different direction and utilizing an architect or HVAC contractor for design. Typically, GWA needs to work with a design engineering consulting firm for these types of design projects due a consultant's ability to assist with not just design, but also researching technology options, writing specifications, researching manufacturers, SCADA integration, automation, bidding requirements, and other items that we at the Authority have limited resources and staff for. After further discussion, it was still recommended to bring forward this proposal for EOC approval.

Therefore, it is recommended the EOC award Strand Associates, Inc. the 2018 Administration Building HVAC Rehabilitation Design in the amount not to exceed \$99,000. This amount will be taken out of the designated amount in CY2018 Approved Budget, Fund 40 580150 Plant Equipment Rehabilitation, which is currently budgeted at \$75,000.

9. Request to Declare Surplus Equipment – Cryogenic Plant and Associated Equipment

In April 2017 the Authority shut down its 40-year old cryogenic generation plant and switched to using liquid oxygen created off site. The plant was costly to operate and maintain, and lower costs were able to be utilized by hauling in the liquid oxygen.

Although the Authority has not reached any agreements to sell the equipment, or have it taken off site, the Authority requests the EOC declare the Cryogenic Plant and Associated Equipment as surplus equipment, which would allow it to be sold or auctioned off to the highest bidder.

10. Approve Contract for new SCADA Server, LAN Server, and Firewall

The Glenbard Wastewater Authority presently employs and is heavily dependent on the operation of two distinct computer networks/systems to accomplish its' mission, the SCADA System and the business Local Area Network (LAN).

The SCADA (Supervisory Control and Data Acquisition) System is a computerized network used to monitor and control plant processes and equipment, provide real-time and historical data, and provide local/remote alarm notification to staff. This system affords Glenbard the ability to operate the facility with manned personnel during one shift per day as opposed to the round the clock coverage which was once the normal practice prior to the SCADA System installation.

The business LAN is the other computer network used to provide typical business functionality such as e-mail, data storage, word processing, spreadsheet creation/data

analysis, CMMS (Computerized Maintenance Management System), SCADA historical data archiving, WIMS & Ops Works, a wastewater process database and reporting system, web-based equipment research and purchasing, access of VGE accounting software for accounts payables, and electronic IEPA Discharge Monitoring Reports.

We are recommending utilizing the firm of Concentric Integration, as a sole source provider, and seeking a Waiver of Bids, in the total amount of **\$58,585**. Funds for this replacement were included in the FY-2018 Budget Fund 40-580140 **Infrastructure Improvement-SCADA & LAN Server, Firewall Replacement** line item in the amount of \$80,000.

11. Formalize TAC Resolution

The Technical Advisory Committee (TAC) was formed based off a request made by the Village Managers in order to provide recommendations to the Executive Oversight Committee on matters pertaining to projects, budgets, operations and other duties assigned by the Executive Oversight Committee. The TAC consists of three members; the Directors of Public Works from each Village and the Executive Director of the Authority and meets on a monthly basis or more frequently as required.

Due to the TAC's role in recommending items being brought forward to the EOC, the Authority's legal consul recommended formalizing a resolution establishing the TAC. Therefore, attached is a formal resolution prepared by the TAC, and reviewed by the Authority's legal consul.

It is recommended the EOC adopt the resolution formalizing the TAC to make recommendations to the EOC on the operations of GWA.

12. Discussion

- 12.1 Facility Improvement Project Update
- 12.2 Pretreatment Ordinance Status Update
- 12.3 Personnel Update

13. Other Business

- 13.1 Technical Advisory Committee Updates
- 13.2 Pending Agenda Items

14. ***Next EOC Meeting*** – The next regularly scheduled EOC Meeting is set for ***Thursday, July 12, 2018 at 8:00 a.m. in the Conference Room at the Glenbard Wastewater Authority, 945 Bemis Road, Glen Ellyn, IL 60137.***



April 2018

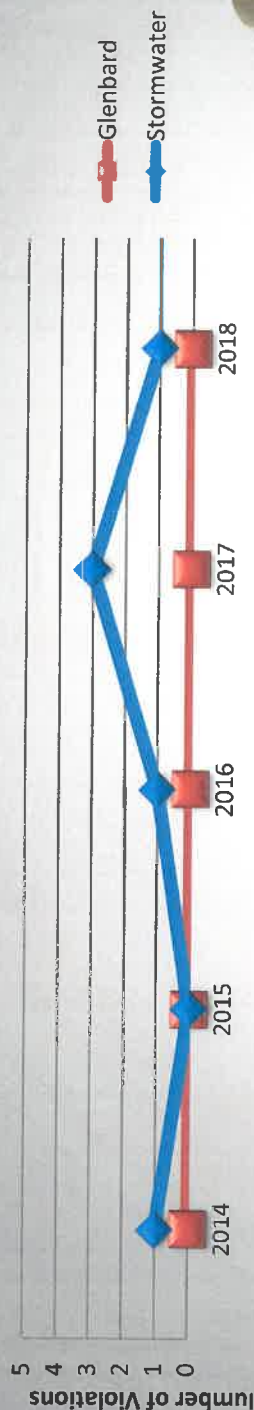
Directors Report

Table of Contents

- Process Review
- Key Performance Indicators
- O&M Expense Reporting – Not available this month
- Capital Project Updates
- Environmental Resources Coordinator Report
- Annual Review of O&M Work Orders
- Combined Heat & Power Production & Return On Investment Report



NPDES Permit Violations



Glenbard Plant: *Current Record

1943 Days February 4, 2013 through May 31, 2018

Previous excursion free operating record:

1058 Days September 8, 2007 – April 10, 2010

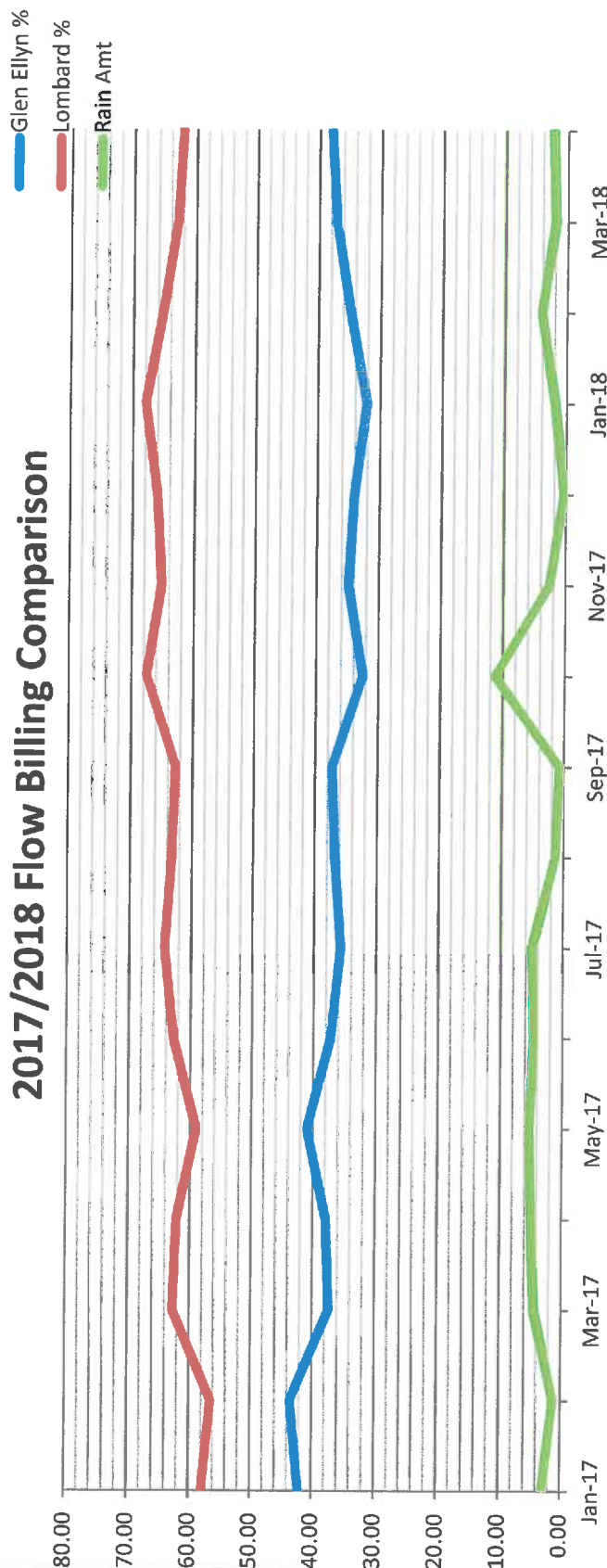
Stormwater Facility:

47 Days April 15, 2018 through May 31, 2018

Current excursion free operating record:

1140 Days July 11, 2009 through August 27, 2012

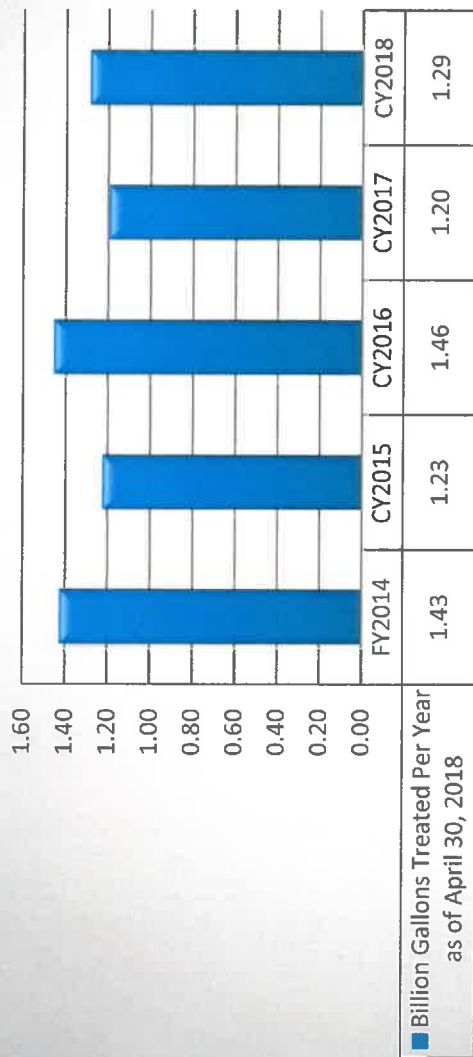
2017/2018 Flow Billing Comparison



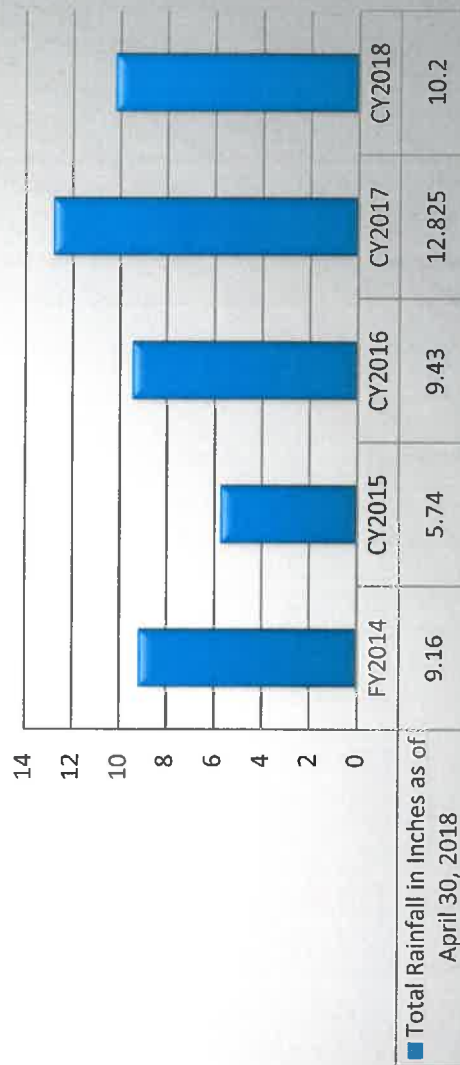
	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18
Glen Ellyn %	42.09	43.49	37.31	37.86	40.97	37.23	35.71	36.771	37.26	32.52	34.89	34.0359	32.1375	34.8096	37.099	37.9253
Lombard %	57.91	56.51	62.69	62.14	59.03	62.77	64.29	63.229	62.74	67.48	65.11	65.9641	67.8625	65.1904	62.901	62.0747
Rain Amt	2.93	1.24	4.31	4.91	5.21	4.61	4.92	1.385	0.72	11.21	2.61	0.345	1.82	4.07	1.915	2.35



Billion Gallons Treated Per Year as of April 30, 2018



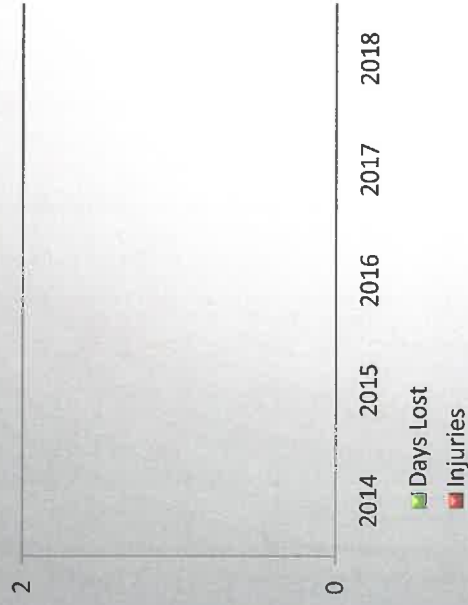
Total Rainfall in Inches as of April 30, 2018



The Authority Key Performance Indicators Regarding Safety and Neighborhood Impacts



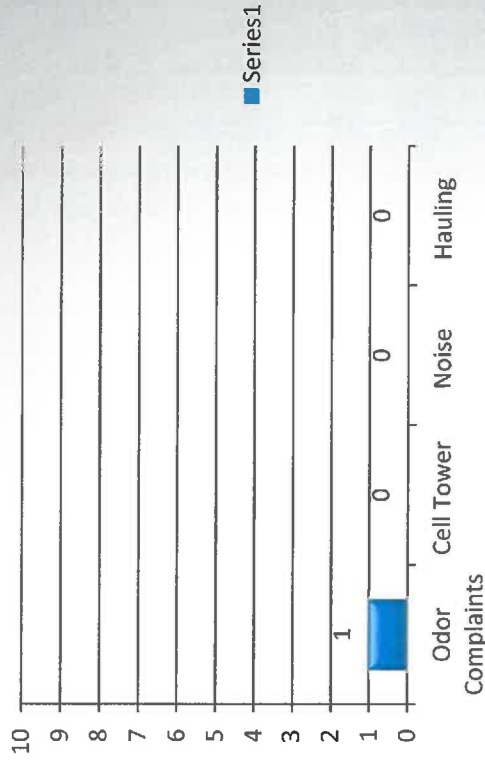
Injuries + Lost Time



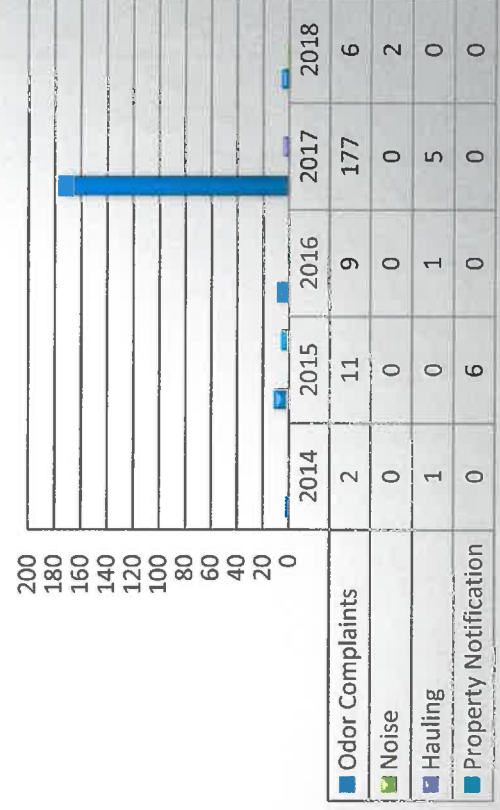
Years	2014	2015	2016	2017	2018
Injuries	0	0	0	0	0
Days Lost	0	0	0	0	0



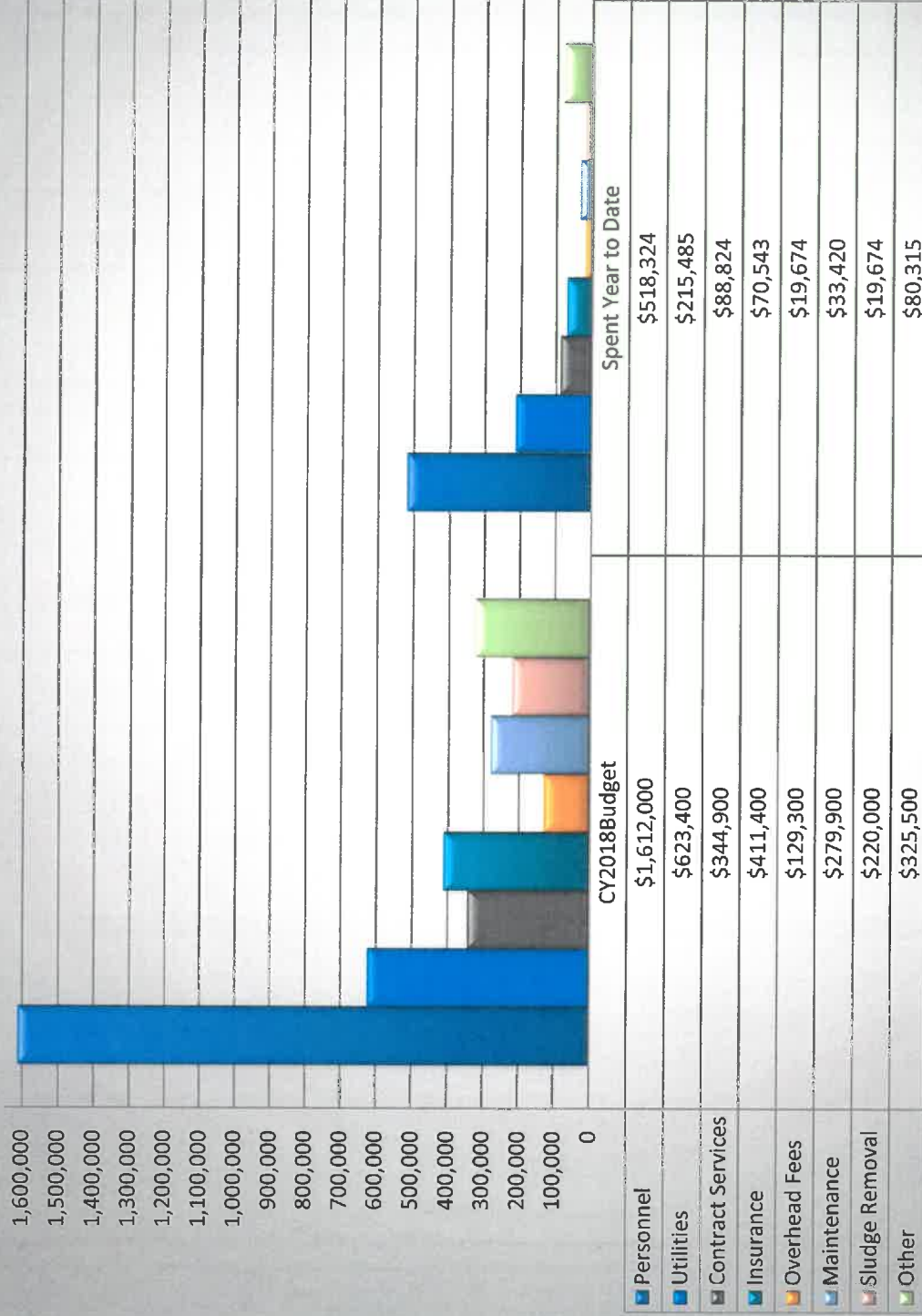
May 2018 Complaints



Annual Complaint Comparison



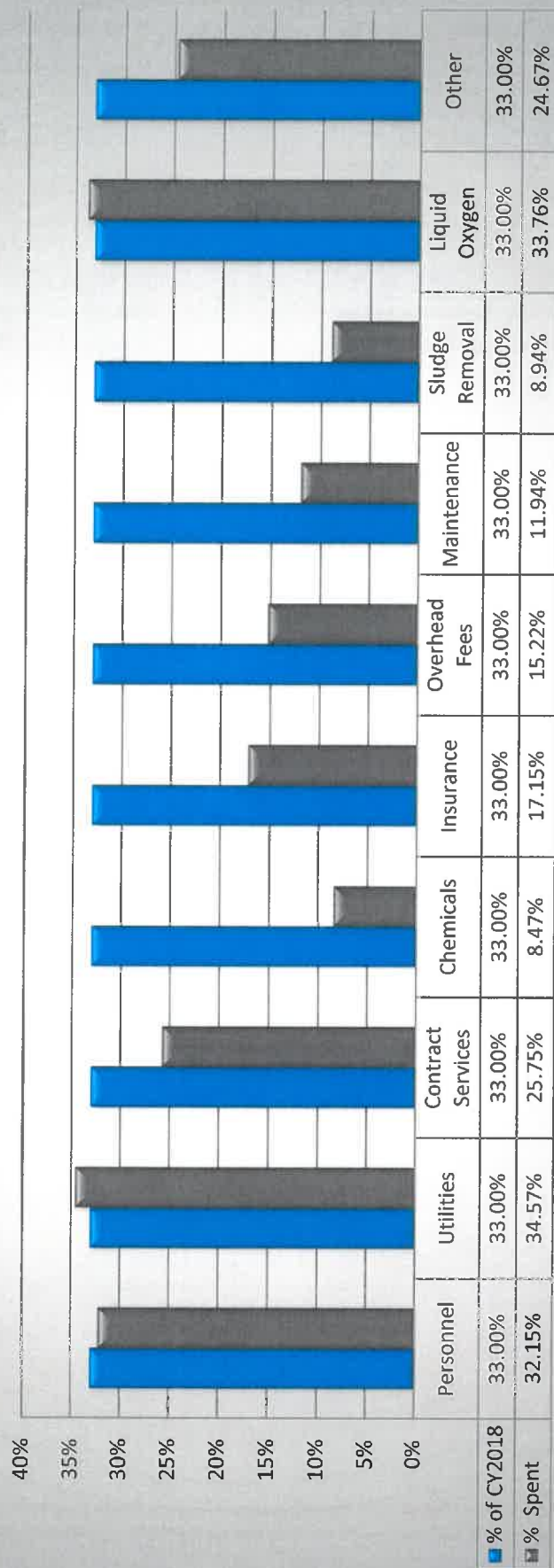
April O&M Expense \$ Reporting



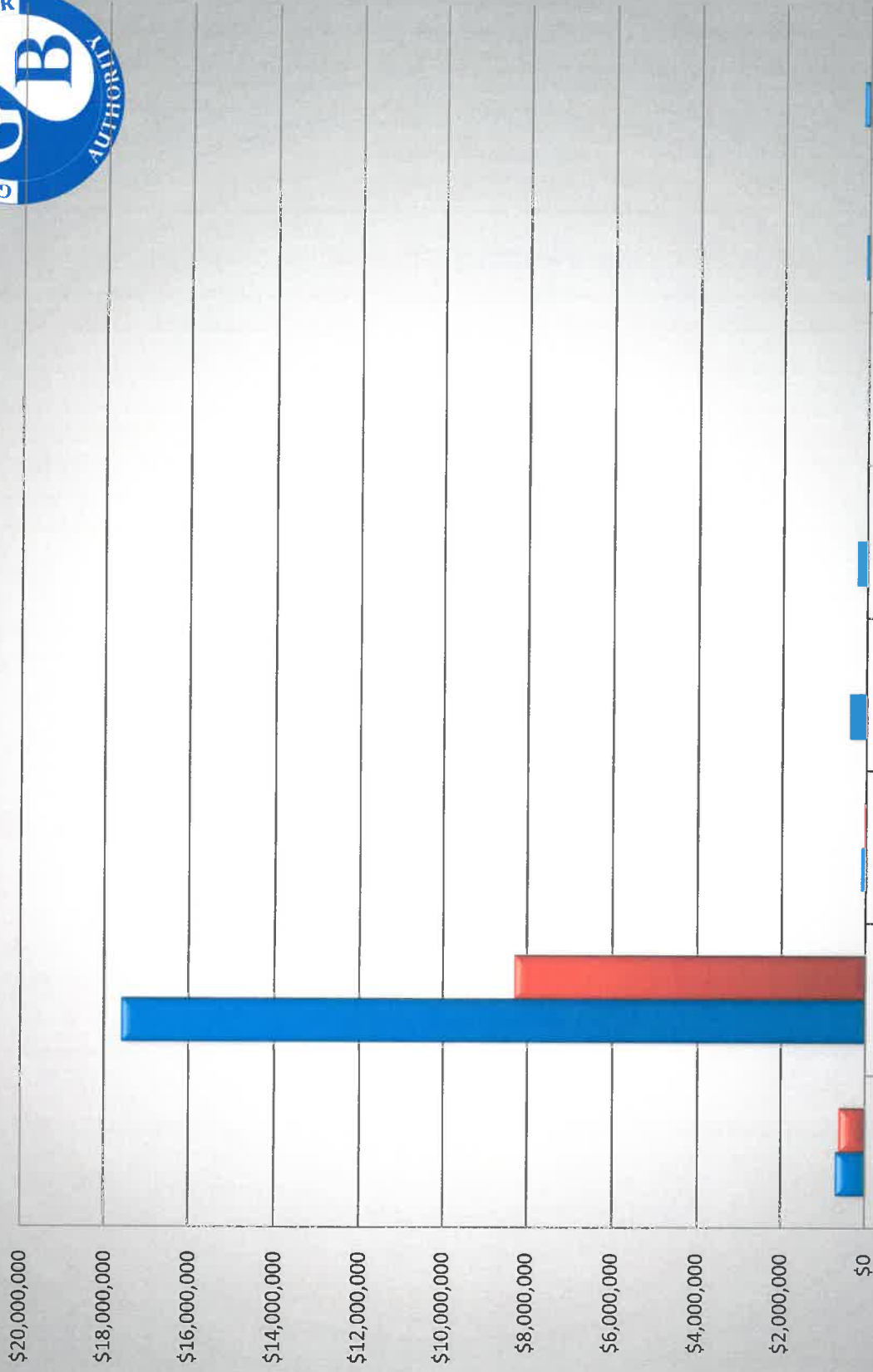
CY2018 Budget Spent Year to Date	Personnel \$1,612,000 33%	Utilities \$623,400 33%	Contract Services \$344,900 25.75%	Chemicals \$115,000 8.47%	Insurance \$411,400 17.15%	Overhead Fees \$129,300 15.22%	Maintenance \$279,900 11.94%	Sludge Removal \$220,000 8.94%	Liquid Oxygen \$325,000 33.76%	Other \$80,315 33%
% of CY2018 % Spent	\$518,324 32.15%	\$215,485 34.57%	\$88,824 25.75%	\$9,737 8.47%	\$70,543 17.15%	\$19,674 15.22%	\$33,420 11.94%	\$19,674 8.94%	\$109,736 33.76%	\$80,315 24.67%



April O&M Expense % Reporting



April 2018 Project Updates



Project Budget Amount	FIP Construction Engineering	FIP Construction	Small Capital Projects	Plant Equipment Rehabilitation	Infrastructure	Rolling Stock	Facility Plan	Electrical Grid Design
	\$706,000	\$17,600,574	\$119,000	\$400,000	\$240,000	\$34,000	\$88,300	\$145,500
Spent to Date	\$624,838	\$8,305,905	\$42,725	\$871	\$16,915	\$0	\$0	\$0

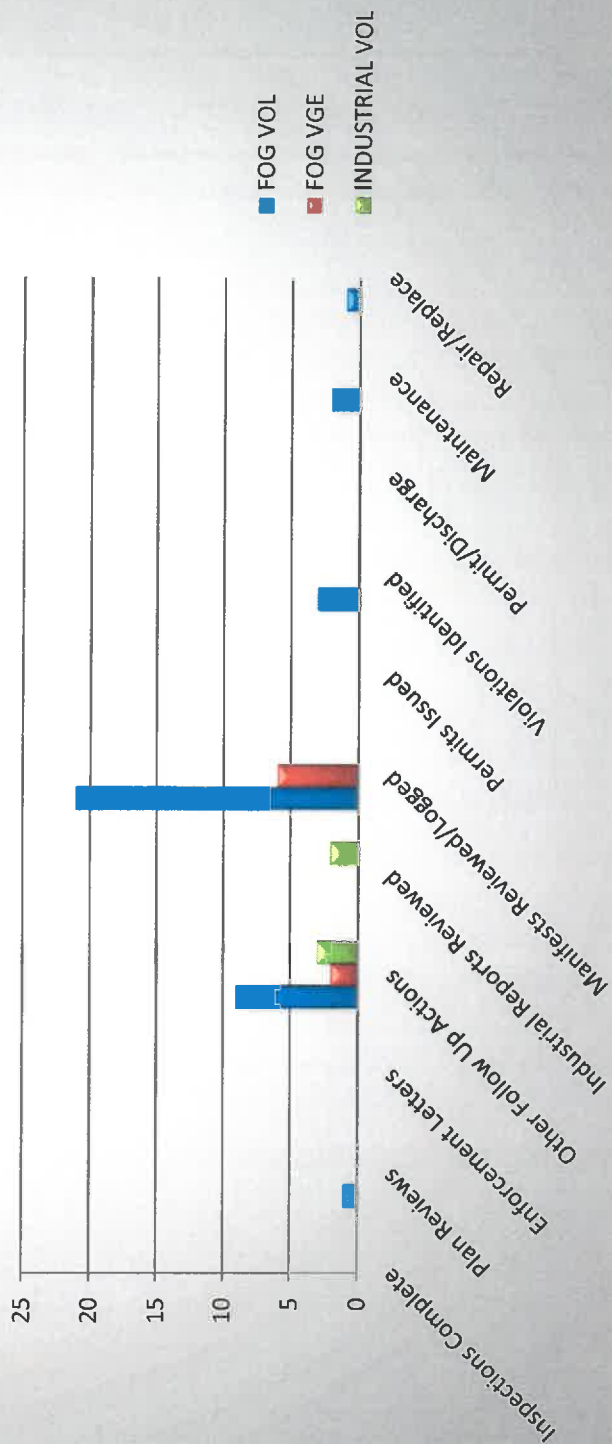
Description	Project Budget Amount	Spent to Date	April Updates
FIP Construction Engineering	\$706,000	\$624,838	See Updated FIP Project Report in the EOC Packet
FIP Construction	\$17,600,574	\$8,305,905	* Not all Paid Out*
Small Capital Projects	\$119,000	\$42,725	Through April 30, 2018
Plant Equipment Rehabilitation	\$400,000	\$871	Through April 30, 2018
Infrastructure	\$240,000	\$16,915	Through April 30, 2018
Rolling Stock	\$34,000	\$0	Through April 30, 2018
Facility Plan	\$88,300	\$0	Through April 30, 2018 (\$150K budgeted)
Electrical Grid Design	\$145,500	\$0	Through April 30, 2018 (\$250K budgeted)



ENVIRONMENTAL RESOURCE COORDINATOR ACTIONS

Apr-18

	FOG		INDUSTRIAL	
	VOL	VGE	VOL	VOL
Inspections Complete	0	0	0	0
Plan Reviews	1	0		
Enforcement Letters	0	0	0	0
Other Follow Up Actions	9	2	3	
Industrial Reports Reviewed	-	-	2	
Manifests Reviewed/Logged	21	6	0	
Permits Issued	-	-	0	
Violations Identified	3	-	0	
Permit/Discharge	-	-	-	
Maintenance	2	0	-	
Repair/Replace	1	0	-	





Environmental Resources Coordinator Monthly Comments

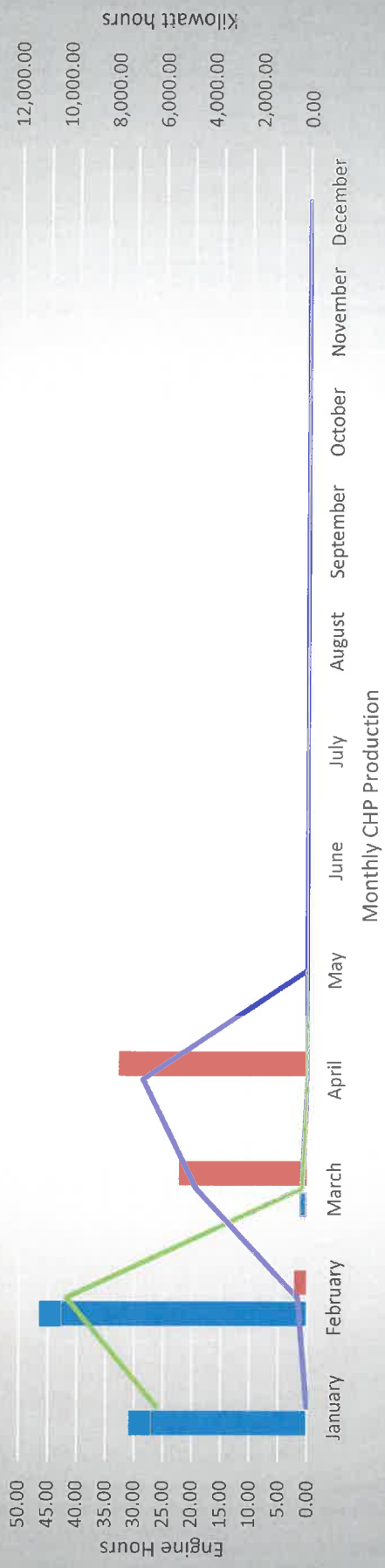
Comments:

- Reviewed all permit applications and certificate of occupancy applications in VOL and all of the business registration applications for VGE to keep data base up to date and for possible future inspections and/or inclusion in the pretreatment program.
- Attended the Illinois Wastewater Professionals Conference.
- Attended ISPS training.
- Completed annual industrial pretreatment report and submitted to IEPA/EPA.
- Researched current process of filing manifests separate from sample analysis.
- Complied information regarding FOG program progress in VOL for the Building Official.
- Contacted possible HSW suppliers to get deliveries restarted.



Combined Heat & Power Production Report

Road to Net Zero



Monthly CHP Production 2018 = \$0.07/kWh

	Engine #1 Hrs	Engine #1 Avail Hrs	Engine #2 Hrs	Engine #2 Avail Hrs	Engine #1 kWh	Engine #1 Avail kWh	Engine #2 kWh	Engine #2 Avail kWh	\$ Saved
January	30.80	744	0.00	744	6,252.00	279,000	10.00	279,000	\$438.34
February	46.40	672	2.20	672	10,038.00	252,000	391.00	252,000	\$730.03
March	1.30	744	22.30	744	224.00	279,000	4,632.00	279,000	\$339.92
April	0.20	720	32.80	720	0.00	270,000	6,854.00	270,000	\$479.78



Return on Investment Monetary Breakdown

Calendar Year 2017	Grant Funding DCEO/ICECF	HSW/FOG Gallons Received	HSW Tipping Fees	Elec Energy Produced @ \$0.09/kWh	Additional NG Costs;		Total + or -	Target to meet 8.8 Year Repayment Schedule	Hit + or Miss
					Comp Previous Years Month	Maintenance Costs			
January		270,253	\$13,512.65	\$35,121.96	(\$7,458.26)	(\$1,283.15)	\$39,893.20	\$37,061.44	2,831.76
February		319,906	\$15,995.30	\$25,186.50	(\$875.65)	(\$16,353.56)	\$23,952.59	\$37,061.44	(13,108.85)
March		306,330	\$15,316.50	\$23,849.37	(\$2,433.50)	(\$7,015.48)	\$29,716.89	\$37,061.44	(7,344.55)
April		353,953	\$17,697.65	\$32,190.75	(\$3,031.14)	(\$995.00)	\$45,862.26	\$37,061.44	8,800.82
May		471,371	\$23,568.55	\$22,998.42	(\$3,542.00)	(\$710.44)	\$42,314.53	\$37,061.44	5,253.09
June	\$129,348.00	572,038	\$28,601.90	\$30,523.32	\$0.00	(\$1,444.40)	\$57,680.82	\$37,061.44	20,619.38
July	\$388,042.50	589,748	\$29,487.40	\$27,406.26	\$0.00	(\$19,703.00)	\$37,190.66	\$37,061.44	129.22
August		479,644	\$23,982.20	\$20,794.32	\$0.00	(\$31,500.00)	\$13,276.52	\$37,061.44	(23,784.92)
September		0	\$0.00	\$7,274.88	\$0.00	(\$895.00)	\$6,379.88	\$37,061.44	(30,681.56)
October		0	\$0.00	\$7,268.13	\$0.00	(\$1,950.43)	\$5,317.70	\$37,061.44	(31,743.74)
November		0	\$0.00	\$3,630.60	\$0.00	\$0.00	\$3,630.60	\$37,061.44	(33,430.84)
December		0	\$0.00	\$1,046.97	\$0.00	\$895.00	\$1,941.97	\$37,061.44	(35,113.47)
Annual Totals	\$517,390.50	3,363,243	\$168,162.15	\$237,291.48	(\$17,340.55)	(\$80,955.46)	\$307,157.62		
Repayment Balance	\$3,913,688.51								
Annual Payback on Investment	\$307,157.62								
Current Return on Investment in Years	12.7								

Average
\$25,521.89

Calendar Year 2018	Grant Funding DCEO/ICECF	HSW/FOG Gallons Received	HSW Tipping Fees	Elec Energy Produced @ \$0.09/kWh	Additional NG Costs;		Total + or -	Target to meet 8.8 Year Repayment Schedule	Hit + or Miss
					Comp Previous Years Month	Maintenance Costs			
January		0	\$0.00	\$438.34			\$438.34	\$34,133.93	(33,695.59)
February		0	\$0.00	\$730.03			\$730.03	\$34,133.93	(33,403.90)
March		0	\$0.00	\$339.92			\$339.92	\$34,133.93	(33,794.01)
April		0	\$0.00	\$479.78			\$479.78	\$34,133.93	(33,654.15)
May		0	\$0.00	\$0.00			\$0.00	\$34,133.93	(34,133.93)
June		0	\$0.00	\$0.00			\$0.00	\$34,133.93	(34,133.93)
July		0	\$0.00	\$0.00			\$0.00	\$34,133.93	(34,133.93)
August		0	\$0.00	\$0.00			\$0.00	\$34,133.93	(34,133.93)
September		0	\$0.00	\$0.00			\$0.00	\$34,133.93	(34,133.93)
October		0	\$0.00	\$0.00			\$0.00	\$34,133.93	(34,133.93)
November		0	\$0.00	\$0.00			\$0.00	\$34,133.93	(34,133.93)
December		0	\$0.00	\$0.00			\$0.00	\$34,133.93	(34,133.93)
Annual Totals		0	\$0.00	\$1,988.07			\$1,988.07		
Repayment Balance	\$3,604,542.82								
Annual Payback on Investment	\$237,853.57								
Current Return on Investment in Years	15.2								

Average Since Inception

SECTION 5.0

CONSENT AGENDA

SECTION 5.1

MINUTES FROM THE
APRIL 12, 2018
MEETING

GLENBARD WASTEWATER AUTHORITY
Executive Oversight Committee
Minutes
April 12, 2018
Meeting held at the Glenbard Wastewater Plant
945 Bemis Road, Glen Ellyn, IL

Members Present:

Diane McGinley	President, Village of Glen Ellyn
Keith Giagnorio	President, Village of Lombard
Bill Enright	Trustee, Village of Glen Ellyn
Mark Franz	Village Manager, Village of Glen Ellyn
Julius Hansen	Public Works Director, Village of Glen Ellyn
Carl Goldsmith	Public Works Director, Village of Lombard

Others Present:

Matthew Streicher	Executive Director, GWA
Rick Freeman	Electrical Superintendent, GWA
David Goodalis	Operations Superintendent, GWA
Jon Braga	Interim Maintenance Superintendent, GWA
Laurie Frieders	Environmental Resources Coordinator, GWA
Christina Coyle	Finance Director, Village of Glen Ellyn
Gayle Lendabarker	Administrative Secretary, GWA

1. Call to Order at 8:03 a.m.
2. Roll Call: President Giagnorio, President McGinley, Trustee Enright, Mr. Franz, Mr. Goldsmith and Mr. Hansen answered "Present". Trustee Fugiel and Mr. Niehaus were excused.
3. Pledge of Allegiance
4. Public Comment
5. Consent Agenda - The following items are considered to be routine by the Executive Oversight Committee and will be approved with a single vote in the form listed below:

Motion the EOC to approve the following items including Payroll and Vouchers for the Month of March 2018 totaling \$396,184.08 (Trustee Enright).

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

- 5.1 Executive Oversight Committee Meeting Minutes:
 - o March 8, 2018 EOC Meeting
- 5.2 Vouchers previously reviewed by Trustee Enright
 - o March 2018
- 6. Approval 2018 Facility Plan Agreement

In November 2017 Authority staff developed and sent out a request for qualifications and technical proposals to our six shortlisted professional consulting firms for the 2018 Facility Plan. The due date for the proposals was February 28, 2018. The development of a new 10-year Facility Plan provides the opportunity to take a comprehensive look at the current and future needs of the Authority's treatment facilities.

The Authority received five sets of qualifications and technical proposals in response to the RFQ/RFP that was sent out, at which point staff performed an initial review, and narrowed it down to two firms to invite for formal interviews. A member of the TAC, as well as Authority staff, participated in the interviews, and after a process of evaluation and elimination selected Trotter & Associates, Inc. to perform the work. It is recommended the EOC award Trotter & Associates, Inc. the 2018 Facility Plan Services in the amount not to exceed **\$88,300**. This amount will be taken out of the designated amount in CY2018 Approved Budget, Fund 40 Capital, for the Facility Plan, which is currently budgeted at \$150,000.

President McGinley motioned and Mr. Goldsmith seconded the motion to award the 2018 Facility Plan Services contract to Trotter & Associates, Inc. of St. Charles Illinois, in the amount not to exceed \$88,300 to be charged to the approved CY2018 Approved Budget 40-580180. President Giagnorio, President McGinley, Trustee Enright, Mr. Franz, Mr. Goldsmith and Mr. Hansen responded "Aye" during a roll vote. The motion carried.

Mr. Streicher summarized the process used to request proposals for the 2018 Facility Plan which is an evaluation done to help GWA plan for future capital projects. Mr. Franz asked what the time frame for completion was. Mr. Streicher advised that the report should be completed by the end of 2018 and will need to be submitted to the IEPA for review, place in a file and reference back to in the event GWA decides to pursue SRF funding through them for any projects, they will be able to see that it was something that had been highlighted as a future project.

Trustee Enright asked if this facility plan would become a document for future equipment/process planning. Mr. Streicher confirmed that the plan will be used to develop future capital projects, especially at the CSO plant since the equipment is outdated and help prioritize them.

Trustee Enright asked if the CSO facility operates in the same manner as the main plant. Mr. Streicher advised that the process is somewhat similar but not nearly as involved and that chemicals are only used for disinfection purposes.

Mr. Goldsmith asked if there were any factors that would preclude Trotter & Associates from submitting engineering proposals on any projects that may result from the facility plan. Mr. Streicher advised there were not and in fact it puts them in a better position since they would have more knowledge.

Mr. Franz asked if odor reductions would be something that Trotter looked at well. Mr. Streicher indicated that they would be evaluating odor control projects and not eliminating odors from the process and do to these more as of an overview of options as some odor control projects can be millions of dollars just for the benefit of a small number of residents. Mr. Streicher added that they will be looking at a range of small scale to large scale projects that would help in controlling or eliminating the odors.

Mr. Hansen reminded the Committee that Trotter & Associates was the firm that stepped quickly to assist with the air quality testing during the odor issues last August.

7. Approval of Facility Improvement Project Change Order No. 004

The Technical Advisory Committee (TAC) reviewed the documents and along with the Authority's legal consul, recommends approval of the proposed Facility Improvements Project Change Order No. 004 in the not to exceed amount of a **\$294,571.47** being presented to the EOC. Due to the higher cost of this proposed change order, the Authority performed due diligence in vetting the costs, and ensuring they are accurate and justified. In addition to the Authority and its consultants investigating the costs, additional layers of support were utilized for this review, including a contract negotiator (Roger McCarron) and the Authority's legal consul. This change order is a request in which the majority of the equipment substantially affects the critical path of the project as identified in comments in the attached memo. The FIP project change order request is addressing a multitude of issues relative to mostly electrical aspects of the project. The change order will increase the overall project cost from \$17,500,573.66 to **\$17,795,145.13**.

President McGinley motioned and Mr. Franz seconded the motion to approve Change Order 004 to the Facilities Improvement Project for an amount not to exceed \$294,571.47 increasing the overall contract price from \$17,500,573.66 to \$17,795,145.13. President Giagnorio, President McGinley, Trustee Enright, Mr. Franz, Mr. Goldsmith, and Mr. Hansen responded "Aye" during a roll vote. The motion carried.

Mr. Streicher indicated that the amount of the change order is the worse-case scenario and has already been reduced by approximately \$40,000 since the EOC Packet was distributed and negotiations are ongoing by all parties to reduce the amount as much as possible. Mr. Streicher indicated that bullet points number two (2) and three (3) are still being negotiated as well as some of the items are time sensitive and require decisions before May 1st in order to avoid any additional price escalations.

Mr. Franz asked Mr. Streicher if he confident this was going to be the last change order for the project. Mr. Streicher advised there he was confident that there would be more since the contractor had not even started work on the other part of the project. Mr. Streicher also reminded the EOC Committee that other than the large \$1.3 million change order that was approved, this change order was actually their first change asking for an increase as change orders #1 and #2 were both reductions in costs.

Trustee Enright asked which bullet points saw reductions. Mr. Streicher indicated that bullet points #2 and #3 were reduced as the contractor agreed to pay half of the costs associated with those items. Mr. Streicher indicated that he had countered offered that Boller pay 100% of the costs on item #2 and GWA pay 100% of the costs for item #3, but he is waiting for a response on this offer which would reduce the change order by approximately another \$20,000. Mr. Enright asked why the price increases from 2016 to 2018. Mr. Streicher indicated that on some the items cannot be pre-made and therefore as a result of various project delays, the material and labor costs have increased from the time of the original proposal to the time of the planned actual production. Mr. Streicher indicated that all parties are making an effort to keep things from escalating like the ERS system did which resulted in a third-party coming in to help negotiate.

Mr. Goldsmith indicated that some of the items appears to be oversights or errors by the design engineering firm and asked if any thought had been given to going back to them and asking them to help offset or cover some of the costs. Mr. Streicher indicated that he had thought about, but the mentality became if these had been designed properly to begin with, we would be paying these costs anyway minus all of the price escalations. Mr. Goldsmith indicated these issues certainly needs to be kept in the back of everyone's mind if and when Black & Veatch comes back with a change order for construction oversight services. Mr. Streicher indicated that he fully anticipates a change order from them and has highlighted these issues to them.

Mr. Goldsmith asked if the IPEA loan will cover the change orders. Mr. Streicher indicated that the loan only covers \$16,725,000. Mr. Goldsmith asked if GWA's budget can handle the current anticipated overage. Mr. Streicher indicated it could and that GWA could seek an increase on the loan amount from the IEPA; however, the process would involve repeating all of the loan application steps that GWA did when applying for the loan originally. Mr. Streicher indicated that while the capital plan can absorb the additional costs, the plan will need to be reviewed and re-evaluate to determine which

projects can be moved to later years and not have a negative impact on the plant operations.

8. Discussion

8.1 Facility Improvement Project Update

Mr. Streicher advised that the last of the new disc filters were installed and the April 1st operation date was met; however, there are some loose ends that need to be wrapped up but they are installed and operating. Mr. Streicher indicated that the ERS was supposed to have broken ground the previous week but he is optimistic that by the next EOC Committee progress will be visible.

Mr. Streicher added that the Boller has been aggressive in submitting proposals as per the terms of Change order 003, and as an act of good faith agreed to authorize payment for several changes orders equal to approximately 50% of nearly the \$1 million dollars currently being held, so they could pay their contractors and not have to worry about a work stoppage by their sub-contractors.

Mr. Hansen asked Mr. Streicher to elaborate on the what was found in the digester when it was cleaned. Mr. Streicher advised that the old sand filter beds would need to be backwashed to help keep them cleaned as a result a large of the sand would be washed out of the beds, dumped back into the head of the plant process and would eventually settle in the digesters and in 2016 when digester number one was cleaned there was six feet of sand ringing the inside perimeter of the digester and the number which was just cleaned at six to eight feet of sand on the inside perimeter and in the future as a result of the new disc filters, sand will no longer be getting into the digester which will free up operational volume in all of the digesters and enhance the performance of the process and less wear and tear on equipment.

Mr. Franz encouraged Mr. Streicher to keep the contractor moving in the right direction and get the disc filter system closed out.

8.2 Pretreatment Ordinance Status Update

Mr. Streicher advised that the US EPA is still reviewing the Village of Lombard's Pretreatment ordinance and GWA has not received the Village of Glen Ellyn's entire Pretreatment ordinance but the goal and hope is that it is a mirror of the one submitted by the Village of Lombard; therefore, any comments, recommendations or changes needed would be applied to the Village of Glen Ellyn's

as well and once revised they would need to be adopted by each village and the submitted to the US EPA.

Mr. Goldsmith advised that Wheaton Sanitary District will need to comply with the ordinance as well since part of Glen Ellyn is serviced by them. Mr. Franz indicated he will need to have discussions with DuPage County

8.3 Project Engineer Status Update

Mr. Streicher indicated that there had been two candidates interviewed however there was one last minute submission and as the person has acceptable experience and credentials the decision was made to bring him in for a combination first and second interview later in the day and was hopeful that by the next EOC Committee meeting the would be able to announce that who the new hire is.

Mr. Franz asked how the intake of FOG was going. Mr. Streicher indicated that with the digester cleaning, it was not feasible to bring in trucks. Ms. Frieders indicated that she is still pursuing vendors. Mr. Hansen asked if May 1st was a more feasible date. Ms. Frieders advised that she was hoping at least that date if not before.

9. Other Business

9.1 Technical Advisory Committee Updates

9.2 Pending Agenda Items

10. ***Next EOC Meeting*** – The next regularly scheduled EOC Meeting is set for ***Thursday, May 10, 2018 at 8:00 a.m. in the Conference Room at the Glenbard Wastewater Authority, 945 Bemis Road, Glen Ellyn, Illinois.***

Mr. Franz asked a May meeting would be necessary. Mr. Streicher indicated that the proposals for the Administration Building HVAC system were due to be received and will most likely exceed the \$20,000 limit as well as the results of the line televising bids that GWA was having done in conjunction with the Village of Lombard. Mr. Goldsmith advised that the bid opening was early May thereby unlikely it would be included on the May EOC Committee agenda.

Trustee Enright highlighted GWA's non-permit violation record and was impressed that the count was 1,882 days. Mr. Streicher advised that each NACWA awards bronze, Silver, Gold and Platinum Awards for plant performance and that GWA is closing in on it's fifth (5th) year and fifth Gold Award, without any violations and should be eligible for the Platinum Award in 2019.

President McGinley moved to adjourn the April 12, 2018 EOC Meeting and Mr. Goldsmith seconded the MOTION. *President Giagnorio, President McGinley, Mr. Enright, Mr. Franz, Mr. Goldsmith, and Mr. Hansen responded “Aye” during a roll vote. The motion carried. The meeting adjourned at 8:45 a.m.*

Submitted by:

Gayle A. Lendabarker
GWA Administrative Secretary

SECTION 5.2

VOUCHERS

APRIL AND MAY 2018

GLENBARD WASTEWATER AUTHORITY
APPROVAL OF VOUCHERS
For the meeting in June 2018

EXPENDITURES:	Check Date	Paid Amount	
Accounts Payable Warrant 0418-1	4/20/2018	\$909,481.36	
Accounts Payable Warrant 0418-2	4/30/2018	\$149,483.07	
Accounts Payable Warrant 0518-1	5/17/2018	\$274,095.84	
Accounts Payable Warrant 0518-2	5/31/2018	\$74,236.40	
		<u>\$1,407,296.67</u>	Warrant Total
			<u>\$1,407,296.67</u>

PAYROLL EXPENDITURES:	April 13, 2018	April 27, 2018	May 11, 2018	May 25, 2018
Net Employee Payroll Checks	<u>\$32,496.99</u>	<u>\$ 33,101.68</u>	<u>\$33,055.42</u>	<u>\$ 32,545.68</u>

Employee & Employer Payroll Deductions:				
Employee Deductions*	\$16,060.75	\$16,251.62	\$16,507.72	\$16,201.12
IMRF - Employer contribution	\$4,403.39	\$4,461.33	\$4,560.61	\$4,442.88
Social Security/Medicare Tax Withheld - Employer portion	\$3,560.66	\$3,619.61	\$3,631.84	\$3,573.23
Total Payroll	<u>\$ 56,521.79</u>	<u>\$ 57,434.24</u>	<u>\$ 57,755.59</u>	<u>\$ 56,762.91</u>
			\$ -	\$ 114,518.50
			GRAND TOTAL	<u>\$1,521,815.17</u>

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

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TO FISCAL 2018/05 01/01/2018 TO 12/31/2018

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	

VENDOR TOTALS									
		273.60	YTD INVOICED			273.60	YTD PAID		78.12
47 CINTAS CORPORATION #769 18739 03/27/18 INVOICE: 769396986				957282	P	04/20/18	270	BUILDING & GROUNDS CONTRA	190.39
VENDOR TOTALS									
		951.95	YTD INVOICED			951.95	YTD PAID		190.39
768 CINTAS FIRST AID & SAFETY 18740 04/06/18 INVOICE: 8403606798				957283	P	04/20/18	270	SAFETY RELATED EQUIPMNT/S	286.88
VENDOR TOTALS									
		1,407.86	YTD INVOICED			1,407.86	YTD PAID		286.88
1218 COLLEY ELEVATOR CO. 18741 04/01/18 INVOICE: 170926				957284	P	04/20/18	270	BUILDING & GROUNDS CONTRA	191.00
VENDOR TOTALS									
		1,180.00	YTD INVOICED			1,180.00	YTD PAID		191.00
490 COMCAST CABLE COMMUNICATIONS, LLC 18743 03/25/18 INVOICE: 18743				957285	P	04/20/18	270	TELECOMMUNICATIONS	202.59
VENDOR TOTALS									
		1,012.95	YTD INVOICED			1,012.95	YTD PAID		202.59
1138 CONSTELLATION ENERGY SERVICES INC 18745 04/10/18 INVOICE: 2289489				957286	P	04/20/18	270	NATURAL GAS	7,454.55
18745 04/10/18 INVOICE: 2289489				957286	P	04/20/18	270-1	NATURAL GAS	407.95
18745 04/10/18 INVOICE: 2289489				957286	P	04/20/18	270	SELF-GEN GAS	414.17
VENDOR TOTALS									
		42,353.00	YTD INVOICED			42,353.00	YTD PAID		8,276.67
981 CROSS RHODES REPROGRAPHICS INC. 18746 03/30/18 INVOICE: 31091				957287	P	04/20/18	270	OFFICE EXPENSES	198.47
VENDOR TOTALS									
		398.69	YTD INVOICED			398.69	YTD PAID		198.47
994 DIRECT ENERGY MARKETING, INC. 18783 04/12/18 INVOICE: 181020034313497				957288	P	04/20/18	270	ELECTRIC POWER	44,419.81
18784 03/20/18 INVOICE: 180790034139353				957288	P	04/20/18	270-1	ELECTRIC POWER	5,111.72
18785 03/20/18 INVOICE: 180790034139355				957288	P	04/20/18	270	ELECTRIC POWER	40.11
18786 03/22/18				957288	P	04/20/18	270-2	ELECTRIC POWER	2,842.48

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TO FISCAL 2018/05 01/01/2018 TO 12/31/2018

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	

VENDOR TOTALS									
1,876.27 YTD INVOICED									
1,876.27 YTD PAID									
254.80									
119 HACH COMPANY									
18755	04/03/18			957295	P	04/20/18	270	MAINTENANCE-ELECTRONICS	520980
INVOICE:	10903769								
18756	03/23/18			957295	P	04/20/18	270	MAINTENANCE-ELECTRONICS	520980
INVOICE:	10890403								
306.45									
VENDOR TOTALS									
6,384.77 YTD INVOICED									
6,384.77 YTD PAID									
426.24									
1267 HAWKINS, INC.									
18757	03/22/18			957296	P	04/20/18	270	CHEMICALS	530440
INVOICE:	4249856								
887.00									
VENDOR TOTALS									
887.00 YTD INVOICED									
887.00 YTD PAID									
887.00									
1147 ILLINOIS AMERICAN WATER COMPANY									
18758	03/28/18			957297	P	04/20/18	270-3	WATER	521203
INVOICE:	18758								
123.49									
VENDOR TOTALS									
620.73 YTD INVOICED									
620.73 YTD PAID									
123.49									
185 KONICA MINOLTA BUSINESS SOLUTIONS INC									
18759	03/25/18			957298	P	04/20/18	270	OFFICE EXPENSES	530100
INVOICE:	9000436536								
88.46									
VENDOR TOTALS									
319.68 YTD INVOICED									
319.68 YTD PAID									
88.46									
158 LESMAN INSTRUMENT CO.									
18760	03/27/18			957299	P	04/20/18	270	MAINTENANCE-ELECTRONICS	520980
INVOICE:	PS1108048								
1,611.66									
VENDOR TOTALS									
3,212.08 YTD INVOICED									
3,212.08 YTD PAID									
1,611.66									
517 LIPKE-KENTEX CORP.									
18761	03/27/18			957300	P	04/20/18	270	MAINTENANCE-CONTRACTUAL	520976
INVOICE:	548637								
180.64									
VENDOR TOTALS									
180.64 YTD INVOICED									
180.64 YTD PAID									
180.64									
295 VILLAGE OF LOMBARD									
18780	04/02/18			957301	P	04/20/18	270	WATER	521203
INVOICE:	18780								
18781	04/02/18			957301	P	04/20/18	270-1	WATER	521203
INVOICE:	18781								
644.84									
VENDOR TOTALS									
26,986.24 YTD INVOICED									
26,986.24 YTD PAID									
672.10									
1184 MATTHEW STREICHER									
18773	04/12/18			957302	P	04/20/18	270	EMPLOYEE EDUCATION	520620
25.00									

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TO FISCAL 2018/05 01/01/2018 TO 12/31/2018

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	125.00	YTD PAID	25.00

INVOICE: 18773											
VENDOR TOTALS											
1006 PHENOVA, INC.											
18763	03/27/18			957303	P	04/20/18	270	530106	OPERATING SUPPLIES - LAB	530106	602.35
INVOICE: 138657											
18764	04/02/18			957303	P	04/20/18	270	530106	OPERATING SUPPLIES - LAB	530106	116.65
INVOICE: 138924											
VENDOR TOTALS											
873 THE PITNEY BOWES BANK, INC											
18790	04/05/18			957304	P	04/20/18	270	530100	OFFICE EXPENSES	530100	38.71
INVOICE: 18790											
VENDOR TOTALS											
876 PITNEY BOWES, INC											
18765	04/01/18			957305	P	04/20/18	270	530100	OFFICE EXPENSES	530100	204.00
INVOICE: 3102081767											
VENDOR TOTALS											
952 PROGRAM ONE PROFESSIONAL BUILDING SERVICES INC.											
18766	03/30/18			957306	P	04/20/18	270	520971	BUILDING & GROUNDS CONTRA	520971	210.00
INVOICE: 110505											
VENDOR TOTALS											
412 NESTLE WATERS NORTH AMERICA											
18767	04/04/18			957307	P	04/20/18	270	530100	OFFICE EXPENSES	530100	84.86
INVOICE: 18D8100616302											
VENDOR TOTALS											
939 STAPLES CONTRACT & COMMERCIAL INC.											
18768	03/23/18			957308	P	04/20/18	270	530100	OFFICE EXPENSES	530100	90.00
INVOICE: 3373530882											
18769	03/27/18			957308	P	04/20/18	270	530100	OFFICE EXPENSES	530100	5.18
INVOICE: 3373530885											
18770	03/27/18			957308	P	04/20/18	270	530100	OFFICE EXPENSES	530100	9.58
INVOICE: 3373530884											
18771	03/27/18			957308	P	04/20/18	270	530100	OFFICE EXPENSES	530100	47.17
INVOICE: 3373530886											
18772	04/05/18			957308	P	04/20/18	270	530100	OFFICE EXPENSES	530100	47.49
INVOICE: 3374460604											
VENDOR TOTALS											
738 SUBURBAN LABORATORIES, INC.											
				1,344.72	YTD	INVOICED		1,344.72	YTD	PAID	199.42

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VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
18774 INVOICE: 154143	04/05/18			957309	P	04/20/18	270 520806	PROFESSIONAL SERVICES-LAB	629.00
VENDOR TOTALS			11,000.00	YTD INVOICED			11,000.00	YTD PAID	629.00
271 TERRACE SUPPLY COMPANY 18775 INVOICE: 986550	03/31/18			957310	P	04/20/18	270 520976	MAINTENANCE-CONTRACTUAL	48.98
VENDOR TOTALS			499.70	YTD INVOICED			499.70	YTD PAID	48.98
1001 TROTTER AND ASSOCIATES, INC. 18776 INVOICE: 14390	03/31/18			957311	P	04/20/18	270 520816	DESIGN ENGINEERING	465.50
VENDOR TOTALS			7,974.41	YTD INVOICED			7,974.41	YTD PAID	465.50
988 VERIZON WIRELESS SERVICES LLC 18777 INVOICE: 9804565726	04/01/18			957312	P	04/20/18	270 521195	TELECOMMUNICATIONS	225.48
VENDOR TOTALS			3,570.71	YTD INVOICED			3,570.71	YTD PAID	225.48
1049 WEST & SONS TOWING INC 18782 INVOICE: 65884	04/04/18			957313	P	04/20/18	270 530225	SAFETY RELATED EQUIPMNT/S	625.00
VENDOR TOTALS			1,250.00	YTD INVOICED			1,250.00	YTD PAID	625.00
REPORT TOTALS									909,481.36

COUNT	AMOUNT
TOTAL PRINTED CHECKS 39	103,296.57
TOTAL WIRE TRANSFERS 2	806,184.79

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TO FISCAL 2018/05 01/01/2018 TO 12/31/2018

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
VENDOR TOTALS			3,570.71	YTD INVOICED			3,570.71	YTD PAID	441.09
1049 WEST & SONS TOWING INC 18815 04/07/18 INVOICE: 65885				957330	P	04/30/18	270 530225	SAFETY RELATED EQUIPMNT/S	625.00
VENDOR TOTALS			1,250.00	YTD INVOICED			1,250.00	YTD PAID	625.00
								REPORT TOTALS	149,483.07
								COUNT	AMOUNT
								TOTAL PRINTED CHECKS	17 134,186.25
								TOTAL WIRE TRANSFERS	15 15,296.82

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VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
78 DUPAGE SECURITY SOLUTIONS, INC. 18853 03/08/18 INVOICE: 43381				957345	P	05/17/18	270 520980	MAINTENANCE-ELECTRONICS	7.98
18854 03/08/18 INVOICE: 43382				957345	P	05/17/18	270 520980	MAINTENANCE-ELECTRONICS	8.38
18855 03/08/18 INVOICE: 43388				957345	P	05/17/18	270 520975	MAINTENANCE-EQUIPMENT	53.79
VENDOR TOTALS			84.22 YTD INVOICED				84.22 YTD PAID		70.15
86 EESCO, A DIVISION OF WESCO DISTRIBUTION INC 18905 04/02/18 INVOICE: 839740				957346	P	05/17/18	270 520980	MAINTENANCE-ELECTRONICS	229.22
VENDOR TOTALS			1,597.28 YTD INVOICED				1,597.28 YTD PAID		229.22
293 VILLAGE OF GLEN ELLYN 18903 05/01/18 INVOICE: 18903				957347	P	05/17/18	270 521203	WATER	2,253.12
18904 05/01/18 INVOICE: 18904				957347	P	05/17/18	270 521203	WATER	19.86
VENDOR TOTALS			78,290.98 YTD INVOICED				78,290.98 YTD PAID		2,272.98
828 GLENBARD WASTEWATER AUTHORITY 18878 05/09/18 INVOICE: 2018-01				957348	P	05/17/18	270 520600	DUES-SUBSCRIPTIONS-REG FE	200.00
18878 05/09/18 INVOICE: 2018-01				957348	P	05/17/18	270 530100	OFFICE EXPENSES	31.32
VENDOR TOTALS			231.32 YTD INVOICED				231.32 YTD PAID		231.32
297 W.W. GRAINGER, INC. 18857 05/04/18 INVOICE: 9778626441				957349	P	05/17/18	270 520975	MAINTENANCE-EQUIPMENT	595.24
18858 04/27/18 INVOICE: 9772067295				957349	P	05/17/18	270 520980	MAINTENANCE-ELECTRONICS	146.56
18859 05/01/18 INVOICE: 9773970430				957349	P	05/17/18	270 520980	MAINTENANCE-ELECTRONICS	405.28
VENDOR TOTALS			5,530.57 YTD INVOICED				5,530.57 YTD PAID		1,147.08
743 GROOT, INC 18860 05/01/18 INVOICE: 1752454				957350	P	05/17/18	270 520991	OPERATIONS - CONTRACTUAL	274.07
VENDOR TOTALS			1,876.27 YTD INVOICED				1,876.27 YTD PAID		274.07
985 HOLSTEINS GARAGE 18861 03/31/18 INVOICE: 347				957351	P	05/17/18	270 520975	MAINTENANCE-EQUIPMENT	35.00

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VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	YTD PAID	YTD INVOICED

VENDOR TOTALS			227.00						227.00	
1147 ILLINOIS AMERICAN WATER COMPANY 18863 04/20/18 INVOICE: 18863				957352	P	05/17/18	270-3	WATER	521203	
VENDOR TOTALS			620.73						620.73	
1214 IMPACT NETWORKING, LLC 18864 05/01/18 INVOICE: 1100459				957353	P	05/17/18	270	OFFICE EXPENSES	530100	
VENDOR TOTALS			210.00						210.00	
754 R. H. JOHNSON OIL COMPANY 18884 04/12/18 INVOICE: 47965				957354	P	05/17/18	270-2	MAINTENANCE-EQUIPMENT	520975	
VENDOR TOTALS			776.02						776.02	
185 KONICA MINOLTA BUSINESS SOLUTIONS INC 18866 04/25/18 INVOICE: 9004530474				957355	P	05/17/18	270	OFFICE EXPENSES	530100	
VENDOR TOTALS			319.68						319.68	
1145 LAURIE FRIEDERS 18856 05/08/18 INVOICE: 18856				957356	P	05/17/18	270	EMPLOYEE EDUCATION	520620	
VENDOR TOTALS			85.00						85.00	
1133 LAUTERBACH & AMEN, LLP 18867 04/23/18 INVOICE: 28010				957357	P	05/17/18	270	AUDIT FEES - PROF SERVICE	520825	
VENDOR TOTALS			9,100.00						9,100.00	
157 LEN'S ACE HARDWARE, INC. 18868 04/19/18 INVOICE: 84215				957358	P	05/17/18	270	OPERATIONS - SUPPLIES	520990	
18869 04/20/18 INVOICE: 84233				957358	P	05/17/18	270	OPERATIONS - SUPPLIES	520990	
VENDOR TOTALS			267.18						267.18	
1135 LIBERTY PROCESS EQUIPMENT, INC. 18870 04/19/18 INVOICE: 72460-IN				957359	P	05/17/18	40	PLANT EQUIPMENT REHABILIT	580150	

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VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	

VENDOR TOTALS			871.00	YTD INVOICED			871.00	YTD PAID	78.00
1184 MATTHEW STREICHER									
18898	04/12/18			957360	P	05/17/18	270	EMPLOYEE EDUCATION	60.00
INVOICE: 18898									
VENDOR TOTALS			125.00	YTD INVOICED			125.00	YTD PAID	60.00
171 MCMASTER-CARR SUPPLY CO.									
18871	04/25/18			957361	P	05/17/18	270	MAINTENANCE-ELECTRONICS	40.52
INVOICE: 61819485									
18872	04/26/18			957361	P	05/17/18	270	MAINTENANCE-ELECTRONICS	24.23
INVOICE: 61926949									
VENDOR TOTALS			2,919.78	YTD INVOICED			2,919.78	YTD PAID	64.75
407 MUNICIPAL INS COOPERATIVE AGENCY									
18873	04/19/18			957363	P	05/17/18	270	MAINTENANCE-BUILDING & GR	5,000.00
INVOICE: 18873									
18874	05/01/18			957362	P	05/17/18	270	LIABILITY INSURANCE	144,016.00
INVOICE: 18874									
VENDOR TOTALS			149,016.00	YTD INVOICED			149,016.00	YTD PAID	149,016.00
199 NEUCO, INC.									
18875	04/26/18			957364	P	05/17/18	270	MAINTENANCE-ELECTRONICS	578.44
INVOICE: 3040812									
VENDOR TOTALS			2,217.47	YTD INVOICED			2,217.47	YTD PAID	578.44
759 NORTHERN SAFETY CO., INC.									
18876	04/18/18			957365	P	05/17/18	270	MAINTENANCE-EQUIPMENT	264.85
INVOICE: 902902132									
VENDOR TOTALS			264.85	YTD INVOICED			264.85	YTD PAID	264.85
836 ANDREW PAKOSTA									
18877	05/10/18			957366	P	05/17/18	270	EMPLOYEE EDUCATION	125.00
INVOICE: 18877									
VENDOR TOTALS			125.00	YTD INVOICED			125.00	YTD PAID	125.00
226 PORTER PIPE AND SUPPLY CO									
18879	05/04/18			957367	P	05/17/18	270	MAINTENANCE-EQUIPMENT	62.32
INVOICE: 11738355-00									
VENDOR TOTALS			10,482.50	YTD INVOICED			10,482.50	YTD PAID	62.32
180 RELADYNE -MID-TOWN PETROLEUM INC.									
18880	05/04/18			957368	P	05/17/18	270	MAINTENANCE-EQUIPMENT	625.25

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TO FISCAL 2018/05 01/01/2018 TO 12/31/2018

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
INVOICE: 1122610-IN 18882 04/23/18 INVOICE: 1117203-IN				957368	P	05/17/18	270 520975	MAINTENANCE-EQUIPMENT	857.40
VENDOR TOTALS			3,415.45	YTD INVOICED				3,415.45 YTD PAID	1,482.65
1070 REVERE ELECTRIC SUPPLY 18883 04/27/18 INVOICE: S3567931.001				957369	P	05/17/18	270 520980	MAINTENANCE-ELECTRONICS	20.75
VENDOR TOTALS			66.58	YTD INVOICED				66.58 YTD PAID	20.75
1212 RJN GROUP, INC 18885 05/02/18 INVOICE: 305016 18886 04/05/18 INVOICE: 305015 18887 04/05/18 INVOICE: B305015			20180002	957370	P	05/17/18	270 520981	ELECTRONICS CONTRACTUAL	9,649.00
VENDOR TOTALS			51,245.00	YTD INVOICED				51,245.00 YTD PAID	22,298.00
939 STAPLES CONTRACT & COMMERCIAL INC. 18888 04/16/18 INVOICE: 3375733223 18897 05/03/18 INVOICE: 3377399831				957371	P	05/17/18	270 530100	OFFICE EXPENSES	60.83
VENDOR TOTALS			1,344.72	YTD INVOICED				1,344.72 YTD PAID	119.96
777 ILLINOIS OFFICE OF THE STATE FIRE MARSHA 18862 04/27/18 INVOICE: 9594701				957373	P	05/17/18	270 520976	MAINTENANCE-CONTRACTUAL	180.79
VENDOR TOTALS			70.00	YTD INVOICED				70.00 YTD PAID	70.00
757 STEWART SPREADING, INC. 18889 04/25/18 INVOICE: 12008				957374	P	05/17/18	270 521150	SLUDGE DISPOSAL - LAND	30,163.00
VENDOR TOTALS			130,339.81	YTD INVOICED				130,339.81 YTD PAID	30,163.00
738 SUBURBAN LABORATORIES, INC. 18890 04/30/18 INVOICE: 154990 18891 04/27/18 INVOICE: 154672 18892 04/26/18 INVOICE: 154628 18893 04/26/18 INVOICE: 154630				957375	P	05/17/18	270 520806	PROFESSIONAL SERVICES-LAB	130.00
				957375	P	05/17/18	270 520806	PROFESSIONAL SERVICES-LAB	350.00
				957375	P	05/17/18	270 520806	PROFESSIONAL SERVICES-LAB	370.50
				957375	P	05/17/18	270 520806	PROFESSIONAL SERVICES-LAB	370.50

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TO FISCAL 2018/05 01/01/2018 TO 12/31/2018

VENDOR NAME	DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
	18894	04/26/18			957375	P	05/17/18	270	520806	PROFESSIONAL SERVICES-LAB
	INVOICE:	154629								370.50
	18895	03/12/18			957375	P	05/17/18	270	520806	PROFESSIONAL SERVICES-LAB
	INVOICE:	153307								370.50
	18896	03/12/18			957375	P	05/17/18	270	520806	PROFESSIONAL SERVICES-LAB
	INVOICE:	153305								370.50
	VENDOR TOTALS			11,000.00	YTD INVOICED			11,000.00	YTD PAID	2,332.50
271	TERRACE SUPPLY COMPANY									
	18899	02/28/18			957376	P	05/17/18	270	520976	MAINTENANCE-CONTRACTUAL
	INVOICE:	985579								44.24
	18900	04/30/18			957376	P	05/17/18	270	520976	MAINTENANCE-CONTRACTUAL
	INVOICE:	987522								48.00
	VENDOR TOTALS			499.70	YTD INVOICED			499.70	YTD PAID	92.24
988	VERIZON WIRELESS SERVICES LLC									
	18901	05/01/18			957377	P	05/17/18	270	521195	TELECOMMUNICATIONS
	INVOICE:	9806413392								225.54
	VENDOR TOTALS			3,570.71	YTD INVOICED			3,570.71	YTD PAID	225.54
									REPORT TOTALS	274,095.84

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TO FISCAL 2018/05 01/01/2018 TO 12/31/2018

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
964 AIR SERVICES COMPANY 18906 INVOICE: 411654	05/14/18			957378	P	05/31/18	270	520975	223.80
VENDOR TOTALS			307.08	YTD INVOICED				307.08	YTD PAID 223.80
881 AIRGAS, INC 18909 INVOICE: 9500465162 18911 INVOICE: 9075472578 18918 INVOICE: 9952833887 18934 INVOICE: 9500465407	05/05/18			957379	P	05/31/18	270	530443	5,603.83
	04/30/18		20180004	957379	P	05/31/18	40	580180	1,500.00
	05/05/18			957379	P	05/31/18	270	520980	47.05
	05/12/18			957379	P	05/31/18	270	530443	7,521.90
VENDOR TOTALS			154,368.52	YTD INVOICED				154,368.52	YTD PAID 14,672.78
9 ALEXANDER CHEMICAL CORPORATION 18912 INVOICE: SLS10070993	05/14/18			957380	P	05/31/18	270-1	530440	2,839.50
VENDOR TOTALS			5,682.79	YTD INVOICED				5,682.79	YTD PAID 2,839.50
1130 ALFA LAVAL INC 18908 INVOICE: 278026640	05/16/18			957381	P	05/31/18	270	520975	226.76
VENDOR TOTALS			226.76	YTD INVOICED				226.76	YTD PAID 226.76
976 MERCURY PARTNERS 90 BI, INC 18838 INVOICE: 128227 18839 INVOICE: 128546 18914 INVOICE: 128781	04/30/18			957382	P	05/31/18	270	520980	425.00
	05/08/18			957382	P	05/31/18	40	580140	-500.00
	05/14/18			957382	P	05/31/18	270	520980	425.00
VENDOR TOTALS			9,165.00	YTD INVOICED				9,165.00	YTD PAID 350.00
819 UNITED COMMUNICATIONS 18915 INVOICE: 18915	05/15/18			957383	P	05/31/18	270	521195	1,111.80
VENDOR TOTALS			5,470.64	YTD INVOICED				5,470.64	YTD PAID 1,111.80
1100 CARLSON PAINT, GLASS & ART STORES, INC. 18916 INVOICE: G141496 18917 INVOICE: G141605	03/15/18			957384	P	05/31/18	270	520980	119.14
	03/21/18			957384	P	05/31/18	270	520980	128.40

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VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	247.54	YTD PAID	247.54	YTD PAID
1268 JF MORGAN CHASE NA 18971 INVOICE: CHASE-1	05/07/18			2352	W	05/30/18	270	EMPLOYEE EDUCATION	520620		247.54	247.54
VENDOR TOTALS												
644 CLC LUBRICANTS 18919 INVOICE: 84255	05/10/18			957385	P	05/31/18	270	MAINTENANCE-EQUIPMENT	520975		247.54	247.54
VENDOR TOTALS												
62 PADDOCK PUBLICATIONS, INC 18920 INVOICE: T4499369	05/02/18			957386	P	05/31/18	270	LEGAL NOTICES	520750		247.54	247.54
VENDOR TOTALS												
74 DREISILKER ELECTRIC MOTORS INC 18922 INVOICE: I085063 18923 INVOICE: I085979	05/08/18			957387	P	05/31/18	270	MAINTENANCE-ELECTRONICS	520980		247.54	247.54
VENDOR TOTALS												
727 FIFTH THIRD BANK 18957 INVOICE: GWA-1820 18958 INVOICE: GWA-1821 18959 INVOICE: GWA-1822 18960 INVOICE: GWA-1823 18961 INVOICE: GWA-1824 18962 INVOICE: GWA-1825 18963 INVOICE: GWA-1826 18964 INVOICE: GWA-1827 18965 INVOICE: GWA-1828 18966 INVOICE: GWA-1829 18967	04/27/18			2338	W	05/30/18	270	EMPLOYEE EDUCATION	520620		247.54	247.54
VENDOR TOTALS												
				2339	W	05/30/18	270	DUES-SUBSCRIPTIONS-REG FE	520600		247.54	247.54
				2340	W	05/30/18	270	EMPLOYEE EDUCATION	520620		247.54	247.54
				2341	W	05/30/18	270	TELECOMMUNICATIONS	521195		247.54	247.54
				2342	W	05/30/18	270	OFFICE EXPENSES	530100		247.54	247.54
				2343	W	05/30/18	270	OFFICE EXPENSES	530100		247.54	247.54
				2344	W	05/30/18	270	OFFICE EXPENSES	530100		247.54	247.54
				2345	W	05/30/18	270	OFFICE EXPENSES	530100		247.54	247.54
				2346	W	05/30/18	270	EMPLOYEE EDUCATION	520620		247.54	247.54
				2347	W	05/30/18	270	MAINTENANCE-ELECTRONICS	520980		247.54	247.54
				2348	W	05/30/18	270	MAINTENANCE-ELECTRONICS	520980		247.54	247.54

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TO FISCAL 2018/05 01/01/2018 TO 12/31/2018

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
18931 INVOICE: 18931	05/13/18			957392	P	05/31/18	270	520975	MAINTENANCE-EQUIPMENT
VENDOR TOTALS		3,231.43	YTD INVOICED					3,231.43	YTD PAID
126 ILLINOIS ASSN. OF WASTEWATER AGENCIES 18932 INVOICE: 4345	05/14/18			957393	P	05/31/18	270	520620	EMPLOYEE EDUCATION
VENDOR TOTALS		100.00	YTD INVOICED					100.00	YTD PAID
1145 LAURIE FRIEDERS 18924 INVOICE: 18924	04/30/18			957394	P	05/31/18	270	520620	EMPLOYEE EDUCATION
VENDOR TOTALS		85.00	YTD INVOICED					85.00	YTD PAID
157 LEN'S ACE HARDWARE, INC. 18938 INVOICE: 84662	05/17/18			957395	P	05/31/18	270	520990	OPERATIONS - SUPPLIES
18939 INVOICE: 84554	05/10/18			957395	P	05/31/18	270	520990	OPERATIONS - SUPPLIES
18940 INVOICE: 84570	05/11/18			957395	P	05/31/18	270	520990	OPERATIONS - SUPPLIES
VENDOR TOTALS		267.18	YTD INVOICED					267.18	YTD PAID
171 MCMASTER-CARR SUPPLY CO. 18933 INVOICE: 62420862	05/03/18			957396	P	05/31/18	270	520975	MAINTENANCE-EQUIPMENT
18935 INVOICE: 62947122	05/10/18			957396	P	05/31/18	270	520975	MAINTENANCE-EQUIPMENT
VENDOR TOTALS		2,919.78	YTD INVOICED					2,919.78	YTD PAID
1211 GMC METALS, INC. 18936 INVOICE: 1005222	05/18/18			957397	P	05/31/18	270	520975	MAINTENANCE-EQUIPMENT
VENDOR TOTALS		66.73	YTD INVOICED					66.73	YTD PAID
1156 ROGUE BEAGLE INITIATIVE, LLC 18937 INVOICE: 2018-44	05/20/18			957398	P	05/31/18	270	520971	BUILDING & GROUNDS CONTRA
VENDOR TOTALS		537.20	YTD INVOICED					537.20	YTD PAID
199 NEUCO, INC. 18942 INVOICE: 3070667	05/17/18			957399	P	05/31/18	270	520980	MAINTENANCE-ELECTRONICS
18943 INVOICE: 3070667	05/08/18			957399	P	05/31/18	270	520980	MAINTENANCE-ELECTRONICS

SECTION 5.3

PURCHASE APPROVAL - 4" TRASH PUMP

MEMORANDUM

TO: Matt Streicher, Executive Director

FROM: Jon Braga, Maintenance Superintendent

DATE: June 6, 2018

RE: Vehicle Number 615
4" Trailer Mounted Pump



The Authority has budgeted for the replacement of the 2001 4" Trailer Mounted Pump, Unit 615. Attached to this memo are the documents for the public bidding of the replacement 4" Trailer Mounted Pump.

The bidding procedure consisted of:

1. Advertisement to bid posted in the Daily Herald On April 16, 2018.
2. Bid Opening at the Glenbard Wastewater Authority on Thursday, May 31st, 2018.

Bid documents were requested and provided to the following companies:

Name	Title	Company
Garrett Mercer	Business Development	Mercer Technologies Firm
Ali Chathiwala	Sales Representative	Burhani Enterprises, Inc
Jacqueline Sessa	Agency Relationship Specialist	Deltek
Dan Trocke	Outside Sales Representative	Xylem/Godwin Pump
Julie Belan	Inside Sales Manager	Tsurumi America
Damon Sholtey	Sales Representative	Wacker Corp.
Mickey Bernard	Sales Representative	Hydro-Kinetics Corp
Joshua Jones	Sales Representative	McCann Construction
Jeff Wright	Sales Representative	Griffin Midwest
Chuck Ramirez	Project Manager	Mersino

Bid pricing from the representatives that elected to bid the project is shown below:

Bidder	4" Trailer Mounted Trash Pump	Unit Price	Lead Time
McCann Construction	Tsurumi EPT4-100DPQKD	\$ 39,500.00	10 weeks
Xylem/ Godwin	Godwin CD100M Dri-Prime	\$ 51,316.04	60 days
Mersino	Global 4GST	\$ 32,730.00	56 days

Mersino is the apparent low bidder for the 4" Trailer Mounted Pump.

A condition evaluation of the current pump was performed by the Village of Glen Ellyn Equipment Services Division. This evaluation determined the current pump has reached the end of its useful life and recommended replacement.

It is requested to provide Mersino with a notice to proceed in the amount of **\$32,730.00** billed to **40-570155** Rolling Stock – Vehicles to purchase the unit. Budgeted amount for replacement is \$23,962.00.

Please advise and Thank You.

SECTION 6.0

CONTRACT APPROVAL – SEWER LINE TELEVISIONING

MEMORANDUM

TO: Executive Oversight Committee
FROM: Matt Streicher, P.E. BCEE
DATE: June 14, 2018
RE: Request for Approval
2018 Televising Contract



In April 2018 Authority staff worked with the Village of Lombard, who developed and sent out a request for qualifications and technical proposals for Large Diameter Sewer Inspection/Assessment. The due date for the proposals was April 17, 2018.

The Authorities maintains roughly 6.24 miles of large diameter interceptor sewer, which ranges from 18 inches to 66 inches. Per the Authority's Capacity, Management, and Operation Plan (CMOM – a requirement per our NPDES Permit), the Authority shall inspect the interceptors roughly every 5 years to ensure they have ability to convey the sanitary sewer water. Typically, the Authority has televised the sewers every 5 years using traditional televising methods instead of any detailed analysis. Since the Authority has large diameter sewer that has not been thoroughly inspected for structural integrity since it was constructed in the late 1970's, this year Authority staff requested proposals for a detailed analysis in conjunction with Lombard's request. This proposal only includes analysis of sewers 30 inches and larger, as those entail the majority of GWA's large diameter sewer and are most critical to conveying the wastewater flow. The Authority will budget for traditional televising on the remaining sewers next calendar year.

The Authority received three sets of qualifications and technical proposals in response to the RFP that was sent out, along with prices. Attached is a spreadsheet containing the bid prices. The apparent low bidder is Red Zone Robotics. The proposed bid and contract were reviewed by the TAC. All references were checked and are satisfactory.

Therefore, it is recommended the EOC award Red Zone Robotics the 2018 Large Diameter Sewer Inspection/Assessment Contract in the amount not to exceed **\$135,912.50**. This amount will be taken out of the designated amount in CY2018 Approved Budget, Fund 40 580150 Plant Equipment Rehabilitation, which is currently budgeted at \$100,000.

GLENBARD WASTEWATER AUTHORITY
CONTRACT
LARGE DIAMETER SEWER INSPECTION/ASSESSMENT CONTRACT

This agreement is made this 14th day of June, 2018, between and shall be binding upon the Glenbard Wastewater Authority, a Joint Authority between the Villages of Glen Ellyn and Lombard (hereinafter referred to as the "Authority") and RedZone Robotics (hereinafter referred to as the "Contractor") and their respective successors.

Witnessed, that in consideration of the mutual promises of the parties delineated in the Contract Documents, the Contractor agrees to perform the services and the Authority agrees to pay for the following services as set forth in the Contract Documents:

The proposed work is officially known as "Large Diameter Combined Sewer Inspection/Assessment". The project consists of inspection and assessment for the as-built condition of approximately 17,950 feet of 36-inch, 48-inch, 60-inch, and 66-inch diameter combined sanitary sewers. The project will also include a preliminary assessment of severity for defect and prioritization of needed repairs, including conceptual budgetary costs. The approximate location of the sewer is shown in greater detail on Sewer Location & Layout Exhibit (GWA). The project consists of inspect the sanitary sewers for the purpose of determining the as-built conditions of the sewers, assessing severity for defects, and prioritizing needed repairs, including conceptual budgetary costs. All of the above as well as other project details are further described in the contract documents for the said work.

1. This contract shall embrace and include all of the applicable Contract Documents listed below as if attached hereto or repeated herein:
 - a. Contract Document for LARGE DIAMETER SEWER INSPECTION/ASSESSMENT, consisting of the following:
 - i) Cover Sheet
 - ii) Table of Contents
 - iii) Request for Bid Proposals
 - iv) General Provisions
 - v) Project Special Provisions
 - vi) Sewer Location and Layout Exhibit
 - vii) Addendum #1 dated April 17, 2018
 - viii) Addendum #2 dated April 19, 2018
 - b. The Contractor's Bid Proposal Dated: April 23, 2018
 - c. Required Performance and Payment Bonds and Certificate(s) of Insurance
 - d. Executed Bidder's Certification Form.
2. The Authority agrees to pay, and the Contractor agrees to accept as full payment the amount as shown on the Contractor's Bid Proposal, which is made a part hereof, subject to such additions and deletions as agreed to by the parties hereto.

3. The Contractor shall commence work under this Contract upon written Notice to Proceed from the Authority and shall complete work under this contract within 120 calendar days from the date of the Notice to Proceed. Time is of the essence in regard to this Contract, and the Contractor agrees to achieve completion within the time permitted by all proper and appropriate means including working overtime without additional compensation.
4. Pursuant to the provisions of Section 5 of the Mechanics' Lien Act of Illinois, prior to making any payment to the Contractor under this Contract, the Authority demands that the Contractor furnish a written statement of the names of all parties furnishing labor and/or materials under this Contract and the amounts due or to become due each. This statement must be made under oath or be verified by affidavit. The Authority shall not issue final payment nor shall any retained percentage become due until releases and waivers of lien have been supplied as the Authority designates.
5. This Contract represents the entire agreement between the parties and may not be modified without the written approval of both parties.

IN WITNESS WHEREOF, the Glenbard Wastewater Authority, Illinois, and the Contractor have each hereunto caused this Contract to be executed by their respective duly authorized representatives this 14th day of June 2018.

If an individual or partnership, the individual or all partners shall sign or, if a corporation, an officer(s) duly authorized shall sign.

RedZone Robotics
Print Company Name

Individual or Partnership _____ Corporation X _____

Accepted this 1 day of June, 2018.

 Dan Yingst Chief Executive Officer
By Position/Title

By Position/Title

THE GLENBARD WASTEWATER AUTHORITY, ILLINOIS

Accepted this _____ day of _____, 2018.

Keith Giagnorio, Chair Person

Attest:

Gayle Lendabarker, Authority
Administration

GLENBARD WASTEWATER AUTHORITY

CONTRACT BOND

KNOW ALL MEN BY THESE PRESENTS, that we Red Zone Robotics, a company organized under the laws of the State of Delaware and licensed to do business in the State of Illinois as Principal and The Cincinnati Insurance Group, a corporation organized and existing under the laws of the State of Ohio, with authority to do business in the State of Illinois, as Surety, are now held and firmly bound unto the Glenbard Wastewater Authority, State of Illinois in the penal sum of one hundred and thirtyfive thousand and nine hundred and twelve dollars and fifty cents (\$135,912.50) lawful money of the United States, well and truly to be paid unto said Authority for the payment of which we bind ourselves, our successors and assigns, jointly, severally, and firmly by these presents.

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that whereas the said Principal has entered into a written contract with the Glenbard Wastewater Authority, acting through the Executive Oversight Committee of the Authority, dated June 14, 2018, for the construction of the work designated:

LARGE DIAMETER SEWER INSPECTION/ASSESSMENT
in Glen Ellyn and Lombard, Illinois, which contract is hereby referred to and made a part hereof as if written herein at length, and whereby the said Principal has promised and agreed to perform said work in accordance with the terms of said contract, and has promised to pay all sums of money due for any labor, materials, apparatus, fixtures or machinery furnished to such Principal for the purpose of performing such work, and has further agreed to guaranty and maintain said work for a one (1) year period following final payment to such Principal, and has further agreed to pay all direct and indirect damages to any person, firm, company, or corporation suffered or sustained on account of the performance of such work during the time thereof and until such work is completed and accepted; and has further agreed that this bond shall inure to the benefit of any person, firm, company or corporation from whom any such labor, materials, apparatus, fixtures or machinery was so furnished and that suit may be maintained on such bond by any such person, firm, company or corporation for the recovery of any such money.

NOW, THEREFORE, if the said Principal shall well and truly perform said work in accordance with the terms of said contract and shall pay all sums of money due or to become due for any labor, materials, apparatus, fixtures or machinery furnished to him for the purpose of constructing such work and shall commence and complete the work within the time prescribed in said contract, and shall pay and discharge all damages, direct and indirect, that may be suffered or sustained on account of such work during the time of the performance thereof and until the said work shall have been accepted, and shall hold the Glenbard Wastewater Authority and its officers, agents and employees, harmless on account of any such damages, and shall in all respects fully and faithfully comply with all the provisions, conditions, and requirements of said contract, then upon the final payment by the Authority to said Principal under said contract, the amount of this bond will be terminated.

APPROVED this ____ day of
duly _____, 2018.

GLENBARD WASTEWATER AUTHORITY

BY: _____
Keith Giagnorio, Chair Person

ATTEST:

Gayle Lendabarker, Administration

IN WITNESS WHEREOF, We have
executed the foregoing Obligation
this 1st day of June _____,
2018

PRINCIPAL:

RedZone Robotics, Inc.

BY: _____

ATTEST: _____

SURETY: The Cincinnati Insurance Company

BY: _____

Barbara A. Leeper, Attorney-in-Fac

BY: _____
Patti K. Lindsey, Witness

THE CINCINNATI INSURANCE COMPANY

Fairfield, Ohio

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That THE CINCINNATI INSURANCE COMPANY, a corporation organized under the laws of the State of Ohio, and having its principal office in the City of Fairfield, Ohio, does hereby constitute and appoint

Alexandra Machnik, Wendy Bright, Brian Jeffe, Barbara Leeper, Patti Lindsey, Jay Black, Josephine Streyle, Brian Long,

of Pittsburgh, PA

its true and lawful Attorney(s)-in-Fact to sign, execute, seal and deliver on its behalf as Surety, and as its act and deed, any and all bonds, policies, undertakings, or other like instruments, as follows:

Fifty Million Dollars and 00/100 (\$50,000,000.00)

This appointment is made under and by authority of the following resolution passed by the Board of Directors of said Company at a meeting held in the principal office of the Company, a quorum being present and voting, on the 6th day of December, 1958, which resolution is still in effect:

"RESOLVED, that the President or any Vice President be hereby authorized, and empowered to appoint Attorneys-in-Fact of the Company to execute any and all bonds, policies, undertakings, or other like instruments on behalf of the Corporation, and may authorize any officer or any such Attorney-in-Fact to affix the corporate seal; and may with or without cause modify or revoke any such appointment or authority. Any such writings so executed by such Attorneys-in-Fact shall be binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company."

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of the Company at a meeting duly called and held on the 7th day of December, 1973.

"RESOLVED, that the signature of the President or a Vice President and the seal of the Company may be affixed by facsimile on any power of attorney granted, and the signature of the Secretary or Assistant Secretary and the seal of the Company may be affixed by facsimile to any certificate of any such power and any such power of certificate bearing such facsimile signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certified by certificate so executed and sealed shall, with respect to any bond or undertaking to which it is attached, continue to be valid and binding on the Company."

IN WITNESS WHEREOF, THE CINCINNATI INSURANCE COMPANY has caused these presents to be sealed with its corporate seal, duly attested by its Vice President this 10th day of May, 2012.



STATE OF OHIO) ss:
COUNTY OF BUTLER)

THE CINCINNATI INSURANCE COMPANY

Steph A. Jente

Vice President

On this 10th day of May, 2012, before me came the above-named Vice President of THE CINCINNATI INSURANCE COMPANY, to me personally known to be the officer described herein, and acknowledged that the seal affixed to the preceding instrument is the corporate seal of said Company and the corporate seal and the signature of the officer were duly affixed and subscribed to said instrument by the authority and direction of said corporation.



Mark J. Huller

MARK J. HULLER, Attorney at Law
NOTARY PUBLIC - STATE OF OHIO
My commission has no expiration date. Section 147.03 O.R.C.

I, the undersigned Secretary or Assistant Secretary of THE CINCINNATI INSURANCE COMPANY, hereby certify that the above is a true and correct copy of the Original Power of Attorney issued by said Company, and do hereby further certify that the said Power of Attorney is still in full force and effect.

GIVEN under my hand and seal of said Company at Fairfield, Ohio.
this 1st day of JUNE, 2012.



BN-1005 (5/12)

Scott R. Boen

Assistant Secretary

GLENBARD WASTEWATER AUTHORITY

CONTRACTOR'S CERTIFICATION

Dan Yingst, Chief Executive Officer, having been first duly sworn depose and states as follows:
(Officer or Owner of Company)

Red Zone Robotics, having submitted a proposal for:
(Name of Company)

LARGE DIAMETER COMBINED SEWER INSPECTION/ASSESSMENT to the Glenbard Wastewater Authority, hereby certifies that said Contractor:

1. has a written sexual harassment policy in place in full compliance with 775 ILCS 5/2-105(A) (4).
2. is not delinquent in the payment of any tax administered by the Illinois Department of Revenue, or if it is:
 - a. it is contesting its liability for the tax or the amount of tax in accordance with procedures established by the appropriate revenue Act; or
 - b. it has entered into an agreement with the Department of Revenue for payment of all taxes due and is currently in compliance with that agreement.
3. is in full compliance with the Federal Highway Administration Rules on Controlled Substances and Alcohol Use and Testing, 49 CFR Parts 40 and 382 and that
all employee drivers
(Name of employee/driver or "all employee drivers")
is/are currently participating in a drug and alcohol testing program pursuant to the aforementioned rules.

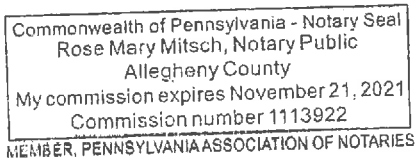
By:



Authorized Agent of Contractor

Subscribed and sworn to
before me this 1
day of June, 2018.


Notary Public



Large Diameter Combined Sewer Inspection/Assessment (#5658982)
Owner: Village of Lombard, IL
Solicitor: Village of Lombard, IL
04/24/2018 10:00 AM CDT

Section Title/Line Item		Item Code	Item Description	UoM	Quantity	Engineer Estimate		Red/Zone Robotics		Taplin Group		National Power Rodding Corp	
Base Bid						Unit Price	Extension	Unit Price	Extension	Unit Price	Extension	Unit Price	Extension
	2 2G		MOBILIZATION/DE-MOBILIZATION TO PROJECT SITE (GLENBARD)	LS	1		\$0.00						
	4 4G		TRAFFIC CONTROL AND PROTECTION/EASEMENT ENTRY	LS	1								
	6 6G		36" SEWER INSPECTION/DATA COLLECTION	LF	1100	\$2,500.00	\$2,500.00	\$5,000.00	\$5,000.00	\$11,523.18	\$11,523.18	\$15,000.00	\$15,000.00
	7 7G		48" SEWER INSPECTION/DATA COLLECTION	LF	1250	\$5.00	\$5,000.00	\$5.24	\$5,500.00	\$5.24	\$5,764.00	\$10.00	\$12,000.00
	8 8G		60" SEWER INSPECTION/DATA COLLECTION	LF	10100	\$5.00	\$6,250.00	\$5.24	\$6,250.00	\$5.24	\$6,550.00	\$10.00	\$11,000.00
	9 9G		66" SEWER INSPECTION/DATA COLLECTION	LF	5500	\$5.75	\$8,075.00	\$5.24	\$8,075.00	\$5.24	\$8,924.00	\$10.00	\$12,500.00
	13 13LG		CCTV DATA PROCESSING/ANALYSIS	LF	17950	\$5.75	\$31,625.00	\$5.24	\$31,625.00	\$5.24	\$28,820.00	\$10.00	\$101,000.00
	14 14LG		SONAR DATA PROCESSING/ANALYSIS	LF	17950	\$0.25	\$4,487.50	\$0.25	\$4,487.50	\$0.63	\$11,308.50	\$1.00	\$17,950.00
	15 15LG		LIDAR/LASER DATA PROCESSING/ANALYSIS	LF	17950	\$0.25	\$4,487.50	\$0.25	\$4,487.50	\$3.17	\$56,901.50	\$1.00	\$17,950.00
	17 17G		GIS DATA COLLECTION/PROCESSING (GLENBARD)	LS	1	\$2,500.00	\$2,500.00	\$1,000.00	\$1,000.00	\$254.15	\$254.15	\$10,000.00	\$10,000.00
	19 19G		REPORT SUBMITTAL & SOFTWARE VIEWER (GLENBARD)	LS	1	\$1,000.00	\$1,000.00	\$2,652.49	\$2,652.49	\$2,652.49	\$2,652.49	\$10,000.00	\$10,000.00
	20 20LG		REMOVAL & DEPOSIT OBSTRUCTION IN SEWER	CU YD	100	\$75.00	\$7,500.00			\$417.00	\$41,700.00	\$25.00	\$2,500.00
Allowance													
	21 21LG		LANDSCAPE RESTORATION	T&M	1	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00
Base Bid Total:							\$2,500.00		\$135,912.50		\$220,897.82		\$285,350.00

SECTION 7.0

APPROVAL - 2017 AUDIT REPORT

MEMORANDUM

TO: Executive Oversight Committee
FROM: Christina Coyle, Finance Director
DATE: May 31, 2018
RE: 2017 Audited Financial Statements



2017 Audited Financial Statements

Attached is the Annual Audited Financial Statements for the Glenbard Wastewater Authority for the fiscal year that ended December 31, 2017.

Financial highlights for the Authority's fiscal year 2017 (FY2017) are presented on pages MD&A2 and MD&A3 of the report. A complete narrative summary of the Authority's operations and financial position is found in Management's Discussion and Analysis on pages MD&A1 through 9. I will present highlights of the financial report during the EOC meeting and our audit partner, Jamie Wilkey, will present the auditor's opinion.

The Authority again received an unmodified audit opinion from the auditing firm, Lauterbach & Amen LLP, which is the highest and best opinion.

Operating Fund Surplus

The Operating Fund Surplus, before the long term pension adjustment, was \$159,394. We annually adjust the partners' contributions to match expenses. Using this measure, the Village of Lombard is owed \$96,441 and Glen Ellyn is owed \$62,953 for the fiscal year ended December 31, 2017.

As of December 31, 2017, the Authority's working cash was 29.7% of operating expenses, or \$188,563 above minimum 25% as set in the current intergovernmental agreement. A complete schedule detailing the working cash calculation may be found in the notes to the financial statements (page 18-19). As the amount of working cash over the minimum requirement is greater than the operating surplus for the year, we are able to distribute the entire FY2017 surplus amount.

The operating surplus may be either rebated back to each community or may be distributed to the Capital Fund. In the past, the operating surplus has been distributed to the Capital Fund and has been used for either specific projects or to offset future Capital Fund rate increases to both Villages. The Executive Oversight Committee directed staff to distribute the 2016 operating surplus to the Capital Fund and to restrict the funds to accelerate the repayment of the loan for the Facility Improvement Project. Accelerating the repayment of this loan would reduce the amount of interest that would need to be paid on the loan.

Other Communications

There are two other communications that are included as attachments to this memo.

SAS114 Letter: This letter is a required communication between the auditors and those charged with governance. It highlights certain areas that auditors are required to disclose each year to those charged with governance.

Management Letter: This letter only highlights forthcoming accounting standards for the coming year. There are no internal control matters reported in the letter.

Proposed Action Items:

Motion to accept the Audited Financial Statements of the Glenbard Wastewater Authority for the fiscal year ended December 31, 2017 and to forward the audit report to the full Authority Board for final approval at the next annual meeting.

Motion to distribute the operating surplus of \$159,394 in a manner determined by the Executive Oversight Committee.



April 18, 2018

The Honorable Chairman
Members of the Board of Directors
Glenbard Wastewater Authority
Glen Ellyn, Illinois

We have audited the financial statements of the Glenbard Wastewater Authority, Illinois for the year ended December 31, 2017. Professional standards require that we provide you with information about our responsibilities under generally accepted auditing standards (and, if applicable, *Government Auditing Standards* and the Uniform Guidance), as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our letter to you dated April 18, 2018. Professional standards also require that we communicate to you the following information related to our audit.

Significant Audit Findings

Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by the Authority are described in the Note 1 to the financial statements. No new accounting policies were adopted and the application of existing policies was not changed during the year ended December 31, 2017. We noted no transactions entered into by the governmental unit during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected. The most sensitive estimate affecting the business-type activities' financial statements was:

Management's estimate of the depreciation expense on capital assets is based on assumed useful lives of the underlying capital assets. We evaluated the key factors and assumptions used to develop the depreciation expense estimate in determining that it is reasonable in relation to the financial statements taken as a whole.

The financial statement disclosures are neutral, consistent, and clear.

Difficulties Encountered in Performing the Audit

We encountered no significant difficulties in dealing with management in performing and completing our audit.

Significant Audit Findings – Continued

Corrected and Uncorrected Misstatements

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are clearly trivial, and communicate them to the appropriate level of management. There were no material misstatements detected as a result of audit procedures.

Disagreements with Management

For purposes of this letter, a disagreement with management is a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

Management Representations

We have requested certain representations from management that are included in the management representation letter dated April 18, 2018.

Management Consultations with Other Independent Auditors

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to the Authority's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

Other Audit Findings or Issues

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the Authority's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

Other Matters

We applied certain limited procedures to the required supplementary information (RSI) that supplements the basic financial statements. Our procedures consisted of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We did not audit the RSI and do not express an opinion or provide any assurance on the RSI.

Other Matters – Continued

We were engaged to report on the combining and individual fund financial statements and budgetary comparison schedules and supplemental schedules, which accompany the financial statements but are not RSI. With respect to this supplementary information, we made certain inquiries of management and evaluated the form, content, and methods of preparing the information to determine that the information complies with the accounting principles generally accepted in the United States of America, the method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the supplementary information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves.

Restrictions on Use

This information is intended solely for the use of the Board of Directors and management of the Authority and is not intended to be, and should not be, used by anyone other than these specified parties.

We wish to express our gratitude to the Board of Directors and staff (in particular the Finance Department) of the Glenbard Wastewater Authority, Illinois for their valuable cooperation throughout the audit engagement.

Lauterbach + Amen LLP
LAUTERBACH & AMEN, LLP

**GLENBARD WASTEWATER
AUTHORITY GLEN ELLYN, ILLINOIS**

MANAGEMENT LETTER

**FOR THE FISCAL YEAR ENDED
DECEMBER 31, 2017**



April 18, 2018

The Honorable Chairman
Members of the Board of Directors
Glenbard Wastewater Authority
Glen Ellyn, Illinois

In planning and performing our audit of the financial statements of the Glenbard Wastewater Authority, for the fiscal year ended December 31, 2017, we considered its internal control structure in order to determine our auditing procedures for the purpose of expressing our opinion on the financial statements and not to provide assurance on the internal control structure.

We do not intend to imply that our audit failed to disclose commendable aspects of your system and structure. For your consideration we herein submit our comments and suggestions which are designed to assist in effecting improvements in internal controls and procedures. Those less significant matters, if any, which arose during the course of the audit, were reviewed with management as the audit field work progressed.

The accompanying comments and recommendations are intended solely for the information and use of the Members of the Board of Directors, management, and others within the Glenbard Wastewater Authority.

We will review the status of these comments during our next audit engagement. We have already discussed many of these comments and suggestions with various Authority personnel. We would be pleased to discuss our comments and suggestions in further detail with you at your convenience, to perform any additional study of these matters, or to review the procedures necessary to bring about desirable changes.

We commend the finance department for the well prepared audit package and we appreciate the courtesy and assistance given to us by the entire Authority staff.

Lauterbach & Amen LLP
LAUTERBACH & AMEN, LLP

PRIOR RECOMMENDATIONS

1. GASB STATEMENT NO. 74 FINANCIAL REPORTING FOR POST-EMPLOYMENT BENEFIT PLANS OTHER THAN PENSION PLANS AND GASB STATEMENT NO. 75 ACCOUNTING AND FINANCIAL REPORTING FOR POST-EMPLOYMENT BENEFITS OTHER THAN PENSIONS

Comment

In June 2015, the Governmental Accounting Standards Board (GASB) issued Statement No. 74, *Financial Reporting for Post-Employment Benefits Plans Other Than Pension Plans*, which applies to individual postemployment benefit plans, and Statement No. 75, *Accounting and Financial Reporting for Post-Employment Benefits Other Than Pensions*, which applies to the state and local government employers that sponsor the plans. The Statements apply to the reporting of other post-employment benefits, including medical, dental, life, vision and other insurance coverages provided by the employer post-employment. The Statements establish standards for measuring and recognizing liabilities, deferred outflows of resources, deferred inflows of resources, and expense/expenditures related to the other post-employment benefit plans, and specifically identify the methods and assumptions that are to be used in calculating and disclosing these OPEB accounts in the financial statements. The Statements also provide for additional note disclosures and required supplementary information and are intended to improve information provided by state and local government employers regarding financial support to their OPEB plans. GASB Statement No. 75 applies to the employer's reporting of other post-employment benefit plans and is applicable to the Glenbard Wastewater Authority's financial statements for the year ended December 31, 2018.

Recommendation

We recommended that the Glenbard Wastewater Authority reach out to the private pension actuary engaged to provide the OPEB actuarial calculations in order to confirm the timeline for implementation and to review requested materials that will be required in order to implement the provisions and requirements of the new Statements. Lauterbach & Amen, LLP will also work directly with the Glenbard Wastewater Authority to assist in the implementation process, including assistance in determining the implementation timeline with the Glenbard Wastewater Authority and private actuary, providing all framework for the financial statements in order to complete the implementation, and assist in answering any questions or concerns the Glenbard Wastewater Authority might have related to the implementation process or requirements.

Status

This comment has not been implemented and will be implanted for the year ended December 31, 2018, as required.

GLENBARD WASTEWATER AUTHORITY
GLEN ELLYN, ILLINOIS

ANNUAL FINANCIAL REPORT

FOR THE FISCAL YEAR ENDED
DECEMBER 31, 2017

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

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FINANCIAL SECTION

INDEPENDENT AUDITORS' REPORT



INDEPENDENT AUDITORS' REPORT

April 18, 2018

The Honorable Chairman
Members of the Board of Directors
Glenbard Wastewater Authority
Glen Ellyn, Illinois

We have audited the accompanying financial statements of the Glenbard Wastewater Authority, Illinois, as of and for the year ended December 31, 2017, and the related notes to the financial statements, which collectively comprise the Authority's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Authority's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Authority's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the Glenbard Wastewater Authority, Illinois, as of December 31, 2017, and the respective changes in financial position and, where applicable, cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis as listed in the table of contents and budgetary information reported in the required supplementary information as listed in the table of contents, be presented to supplement the basic financial statements. Such information, although not part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Glenbard Wastewater Authority, Illinois' basic financial statements. The supplemental schedules are presented for purposes of additional analysis and are not a required part of the financial statements.

The supplemental schedules are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the financial statements. Such information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the supplemental schedules are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The Schedule of Comparative Flows and the Schedule of Allocation of Costs have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

Prior-Year Comparative Information

We have previously audited Glenbard Wastewater Authority's 2016 financial statements, and we expressed unmodified audit opinions on the respective financial statements of the governmental activities, each major fund, and the aggregate remaining fund information in our report dated May 12, 2017. In our opinion, the summarized comparative information presented herein as of and for the year ended December 31, 2016, is consistent, in all material respects, with the audited financial statements from which it has been derived.


LAUTERBACH & AMEN, LLP

MANAGEMENT DISCUSSION AND ANALYSIS

GLENBARD WASTEWATER AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS

December 31, 2017

This discussion and analysis of the Glenbard Wastewater Authority (the "Authority") is designed to provide the reader an objective and easily readable analysis of the Authority's financial activities for the fiscal year 2017 which began on January 1, 2017 and concluded on December 31, 2017. Also highlighted in this analysis are significant financial transactions and issues, comparisons to prior year activities, any relevant trend information, and changes in the Authority's financial position.

This discussion and analysis is an integral part of the Authority's financial statements and should be read in conjunction with the financial statements, which begin on page 3.

Background and Overview of the Financial Statements

The Authority was established by an intergovernmental agreement dated November 28, 1977 between the neighboring villages of Lombard and Glen Ellyn, Illinois for the purpose of jointly treating and processing wastewater. Prior to creation of the Authority, wastewater processing was decentralized. The Authority processes wastewater for the Villages of Lombard and Glen Ellyn as well as certain other areas in DuPage County.

The four principal components of the Authority are the Glenbard Plant, the Lombard Combined Sewerage Treatment Facility (LCSTF) facility, the North Regional Interceptor (NRI) and the South Regional Interceptor (SRI). The original construction cost of these facilities was approximately \$43 million, with \$32 million contributed by a grant from the United States Environmental Protection Agency (USEPA) and the remaining \$11 million contributed by Lombard and Glen Ellyn.

The Board of Directors of the Authority consists of the Village President and six Trustees from each of the Villages of Lombard and Glen Ellyn. The Executive Oversight Committee (EOC) is responsible for overseeing the operational aspects of the Authority's activities and is composed of both Village Presidents, both Village Managers, one Trustee representative from each Village Board and one staff member, traditionally the Public Works Director, of each Village. The Committee meets monthly and reviews operational and staff reports, approves Authority expenditures, awards various contracts for services, reviews the financial statements, reviews and recommends an annual budget to the full Authority Board and performs other functions as defined in the intergovernmental agreement.

The Village of Glen Ellyn is identified by the intergovernmental agreement as the "operating" or lead agency of the Authority. In its capacity as lead agency, Glen Ellyn performs operational supervision, accounting, personnel and administrative services for the Authority on a contractual basis.

The Authority's accounting and financial transactions are recorded in two separate funds – the Operating Fund and the Equipment Replacement Fund.

The Operating Fund pays for the day-to-day operating costs of the Glenbard Plant, LCSTF, NRI and SRI and includes costs such as staff salaries and benefits, contractual services, sludge removal, utilities, insurance and related expenses. Operating costs are allocated between the Lombard and Glen Ellyn partners based on a five year rolling average of the percentage of wastewater flow contributed by each community.

GLENBARD WASTEWATER AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS

December 31, 2017

Each Village contributes a monthly amount to the Authority based on the adopted Operating Fund budget for the year. These contributions are adjusted two times per fiscal year based on actual wastewater flow share between the parties. Also, an adjustment is made after the conclusion of the fiscal year so that total year-end operating revenues are equivalent to total year-end operating expenses, excluding the adjustment for the IMRF pension obligation.

The Equipment Replacement Fund was established to accumulate funds for the repair and replacement of plant components as needed and was a required element for the initial grant assistance received from the Federal EPA. The two partners contribute a budgeted amount to the Equipment Replacement Fund each year based the wastewater flow split percentage of the Glenbard Plant and associated infrastructure.

Financial Highlights

1. The Authority's overall cash position at December 31, 2017 increased by \$2.73 million or by 104% compared to balances at the close of the prior fiscal year. The Operating Fund experienced an increase in cash balance of \$133,736, while the Equipment Replacement Fund's cash balance increased by \$2.60 million. The Equipment Replacement Fund received loan proceeds from an Illinois Environmental Protection Agency (IEPA) loan in the amount of \$7.5 million and has incurred capital costs of \$9.9 million. The main project undertaken is the Facility Improvement Project (FIP), which entails a series of updates to the facility. See page 33 for detailed cash flow information.
2. Total Operating Fund expenses for fiscal year 2017 were \$4,107,986, a decrease of \$129,738 or 3.1% compared to the previous fiscal year. For additional information concerning changes in operating costs compared to the prior fiscal year, see page 8 of this Management's Discussion and Analysis.
3. Total Operating Fund expenses were under the approved budget of \$4,184,550 by \$76,564 or 1.8%. Savings were seen on maintenance costs (under budget by \$177,293) and commodities (under budget by \$103,229). Additional budget comparison information is located on pages 34 - 35.
4. Amounts due from/(to) each of the Villages as of December 31, 2017, include following components:

	Village of Lombard	Village of Glen Ellyn	Total
Amounts Due from (to) Villages			
Billing Adjustment for the Fiscal Year Ended on December 31, 2017	\$ (96,441)	(62,953)	(159,394)
Billing Adjustment - July 2017 to December 2017	109,906	(109,906)	-
Miscellaneous Receivable (Payable)	-	1,210	1,210
Cumulative Balance Due from (to) Villages	13,465	(171,649)	(158,184)

GLENBARD WASTEWATER AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS

December 31, 2017

5. The percentage of wastewater flow contributed by each of the partners to the Glenbard Plant for 2017 compared to the previous three years is shown below:

	FY 2015	FY 2016	FY 2017
Lombard	54.75%	55.61%	57.35%
Glen Ellyn	45.25%	44.39%	42.65%

A history of annual flow data is presented on page 38.

6. The Authority has a minimum working cash policy for its Operating Fund equal to 25% of operating expenses (see Note 3 on page 18 - 19). The Authority's net working cash balance of \$1,198,358 as of December 31, 2017 is equivalent to a 29.7% reserve level, above the minimum 25% level by \$188,563.
7. The Authority invested significantly in capital projects during 2017. The Authority embarked on the Facility Improvement Project (FIP) in 2017. This project includes improvements to the raw sewage pump building, improvements and modifications to the filter building, modification of the non-potable water system, installation of a reclaimed water system, improvements to the natural gas system serving the treatment facility and improvements to the final clarifiers. As of December 31, \$8.1 million had been expended on this project.
8. In 2017, an imbalance in the digesters caused a foul odor in the surrounding neighborhoods. To address the imbalance, the Authority temporarily halted processing of fats, oils, and grease (FOG). The Authority also incurred additional costs for chemicals and sludge removal to address the upset digester.

Authority's Financial Analysis

Net Position

The Statement of Net Position includes all of the Authority's assets/deferred outflows and liabilities/deferred inflows and provides information about the nature and amount of investments in resources and the obligations to creditors. This statement provides the basis for evaluating the capital structure and assessing the liquidity and financial flexibility of the Authority.

A summary of the Authority's Statement of Net Position is presented on the next page.

GLENBARD WASTEWATER AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS

December 31, 2017

	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>
Current and Other Assets	\$ 4,737,766	\$ 2,848,307	\$ 6,258,960
Deferred Outflows	518,751	400,244	239,180
Capital Assets	<u>37,675,061</u>	<u>38,913,771</u>	<u>46,255,289</u>
Total Assets & Deferred Outflows	<u>42,931,578</u>	<u>42,162,322</u>	<u>52,753,429</u>
Long Term Debt	4,850,739	4,331,782	11,348,756
Other Liabilities	3,080,999	1,854,562	3,167,456
Deferred Inflows	<u>-</u>	<u>51,668</u>	<u>925,256</u>
Total Liabilities & Deferred Inflows	<u>7,931,738</u>	<u>6,238,012</u>	<u>15,441,468</u>
Net Investment in Capital Assets	32,318,101	34,063,033	34,374,524
Restricted	<u>2,681,739</u>	<u>1,861,277</u>	<u>2,937,437</u>
Total Net Position	<u>\$34,999,840</u>	<u>\$35,924,310</u>	<u>\$37,311,961</u>

The total net position of the Authority increased \$1,387,651 to \$37,311,961, an increase of 3.9% from the prior fiscal year, due to the contribution by the Villages of the previous year operating surplus to the Equipment Replacement Fund as well as increases in other revenue streams such as connection fees, FOG (fats, oils, and grease) revenue and grant revenue.

For more detailed information, see the Statement of Net Position beginning on page 3.

GLENBARD WASTEWATER AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS

December 31, 2017

Activities

The Statement of Revenues, Expenses and Changes in Net position provides an indication of the Authority's financial health. A summary of the Authority's Statement of Revenues, Expenses and Changes in Net Position is presented below.

	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>
Operating Revenues	\$ 7,267,893	\$ 7,455,808	\$ 7,421,656
Non-Operating Revenues	<u>680,880</u>	<u>868,299</u>	<u>1,286,271</u>
Total Revenues	<u>7,948,773</u>	<u>8,324,107</u>	<u>8,707,927</u>
Depreciation Expense	2,525,016	2,624,572	2,549,513
Other Operating Expenses	4,416,232	4,649,616	4,658,182
Non-Operating Expenses	<u>151,674</u>	<u>125,449</u>	<u>112,581</u>
Total Expenses	<u>7,092,922</u>	<u>7,399,637</u>	<u>7,320,276</u>
Changes in Net Position	855,851	924,470	1,387,651
Net Position – Beginning of Year	<u>34,143,989</u>	<u>34,999,840</u>	<u>35,924,310</u>
Net Position – End of Year	<u>\$34,999,840</u>	<u>\$35,924,310</u>	<u>\$37,311,961</u>

For more detailed information, see the Statement of Revenues, Expenses and Changes in Net Position on page 5.

Revenues

Operating Fund Revenues

Operating Fund operating revenues consist of contributions made by the Villages of Lombard and Glen Ellyn. These contributions are initially based on the adopted Operating Fund budget for the year and are adjusted so that total year-end operating revenues are equivalent to total year-end operating expenses, excluding depreciation expense and IMRF GASB 68 pension adjustment. Amounts that are contributed by the partners in excess of total year-end operating expenses are distributed based on each partner's five-year rolling average wastewater flow and are recorded in the Statement of Net Position as liabilities payable to the respective Villages.

GLENBARD WASTEWATER AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS December 31, 2017

A comparison of Operating Fund operating revenues from charges to the Villages for the fiscal year ended December 31, 2017 compared to the previous two years is shown in the table below.

Partner	FY 2015	FY 2016	FY 2017	\$ Change from 2016 to 2017	% Change from 2016 to 2017
Village of Lombard	\$2,190,422	\$2,294,324	\$2,306,219	\$ 11,895	0.52%
Village of Glen Ellyn	1,810,471	1,831,484	1,715,437	(116,047)	-6.34%
Total	<u>\$4,000,893</u>	<u>\$4,125,808</u>	<u>\$4,021,656</u>	<u>\$ (104,152)</u>	<u>-2.52%</u>

In 2017, the Combined Heat and Power system was operational and reduced utility costs from \$1.0 million in 2016 to \$646,000 in 2017. That was offset by increased costs in sludge removal and maintenance, and commodities.

Equipment Replacement Fund Revenues

A comparison of Equipment Replacement Fund revenues for the fiscal year ended December 31, 2017 compared to the previous two years is shown in the table below:

Revenue	FY 2015	FY 2016	FY 2017	\$ Change from 2016 to 2017	% Change from 2016 to 2017
Lombard ¹	\$ 1,713,122	\$ 1,760,068	\$ 1,826,913	\$ 66,845	3.8%
Glen Ellyn ¹	1,553,878	1,569,932	1,573,087	3,155	0.2%
Excess Contributions ²	244,704	142,157	48,692	(93,465)	-65.7%
Connection Fees ³	145,130	67,124	290,110	222,986	332.2%
Leachate Revenue ⁴	133,389	166,863	156,100	(10,763)	-6.5%
Cell Tower Revenue ⁵	26,651	27,179	52,616	25,437	93.6%
FOG Revenue ⁶	-	35,818	167,806	131,988	NA
Investment Income ⁷	10,918	6,260	11,936	5,676	90.7%
Grant Revenue ⁸	57,000	383,000	517,390	134,390	NA
Other Income ⁹	53,871	41,472	24,097	(17,375)	-41.9%
Total Revenues	<u>\$ 3,938,663</u>	<u>\$ 4,199,873</u>	<u>\$ 4,668,747</u>	<u>\$ 468,874</u>	<u>11.2%</u>

¹. Each partner contributes an annual amount to be allocated for reinvestment in plant infrastructure and rehabilitation. Contributions are determined annually as a part of the budget preparation process and are allocated based on the wastewater flows contributed by each partner at the Glenbard Plant.

². As part of the closeout of the 2016 fiscal year, both Villages contributed their portion of the operating surplus in the Operating Fund to the Equipment Replacement Fund.

GLENBARD WASTEWATER AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS

December 31, 2017

- ^{3.} New connections to the respective sanitary sewer systems of the partners are charged a fee which is paid into the Equipment Replacement Fund. FY 2017 had greater fees than FY 2016 fees due to a few larger development projects.
- ^{4.} Beginning in FY2012/13, the Authority began processing Leachate at the rate of two trucks per day. In FY2013/14, the number of trucks increased to three per day. In April 2014, the number of trucks was increased to a maximum of 6 per day.
- ^{5.} GWA has an agreement with AT&T to house a cell phone tower on its premises. Beginning in November 2016, Verizon also entered into an agreement with the Authority to house a cell tower on the premises of the Glenbard plant.
- ^{6.} Starting in 2016, the Authority began collecting Fats, Oils, and Grease (FOG) revenue. The Authority processes unwanted FOG from outside customers in the Authority's treatment process. This is a new revenue stream for the Authority. This process was halted at the end of FY17 as it caused an imbalance in the digester, resulting in a foul odor which disturbed neighboring subdivisions. The Authority plans to restart receiving FOG in 2018 once best practices are honed.
- ^{7.} During 2017, interest rates rose as well as the cash balance in the Equipment Replacement Fund.
- ^{8.} The Authority received state grants for its Combined Heat and Power capital project in 2016 and 2017.
- ^{9.} The Authority received revenue in 2015 and 2016 for the EnerNoc Demand Response Program, which enables program participants to receive payment for being available to reduce or eliminate electricity consumption when the reliability of the electric grid is in jeopardy. No revenue was received in FY2017.

GLENBARD WASTEWATER AUTHORITY

MANAGEMENT'S DISCUSSION AND ANALYSIS

December 31, 2017

Expenses

Operating Fund Expenses

A comparison of Operating Fund expenses for FY 2017 compared to the previous two years is shown in the table below:

	FY 2015	FY 2016	FY 2017	2017 Percent of Total	\$ Change from 2016 to 2017	% Change from 2016 to 2017
Personnel Services ¹	\$1,545,124	\$1,592,611	\$1,583,225	38.54%	\$ (9,386)	-0.6%
IMRF Pension Expense	178,077	113,490	68,806	1.67%	(44,684)	-39.4%
Contractual Services						
Maintenance ²	444,683	451,733	478,057	11.64%	26,324	5.8%
Service Charge	126,500	128,372	128,372	3.12%	0	0.0%
Sludge Removal ³	150,591	155,380	179,218	4.36%	23,838	15.3%
Utilities ⁴	1,001,479	1,015,080	645,708	15.72%	(369,372)	-36.4%
Insurance	399,545	408,304	400,937	9.76%	(7,367)	-1.8%
Other ⁵	191,498	225,496	198,992	4.84%	(26,504)	-11.8%
Commodities ⁶	150,690	147,258	424,671	10.35%	277,413	188.4%
Total	<u>\$4,188,187</u>	<u>\$4,237,724</u>	<u>\$4,107,986</u>	<u>100.00%</u>	<u>(\$129,738)</u>	<u>-3.1%</u>

^{1.} Personnel services include salaries for 17 full-time and 7 part-time/seasonal staff positions, overtime, Social Security and Medicare employer costs, and required retirement contributions to the Illinois Municipal Retirement Fund (IMRF) for full-time employees. Costs of employee health plan benefits are reflected in the "Insurance" category. In 2016, an Assistant Director/Engineer position was added.

^{2.} The Combined Heat and Power system was operational in FY17, increasing maintenance costs as the system requires annual maintenance of the systems.

^{3.} In 2017, an imbalance of the digester caused a foul odor at the facility. Additional sludge hauling was done to remove any solids which may be contributing to the odor.

^{4.} The implementation of the Combined Heat and Power system reduced costs for utilities, mainly for electric power. However, costs for natural gas were also decreased for FY17.

^{5.} There was an approximate \$21,500 reduction in design engineering expenses.

^{6.} The Authority began purchasing liquid oxygen rather than producing it, raising commodity costs by \$236,854. Also, chemical costs increased by \$20,000 trying to neutralize the odor that occurred in FY17.

GLENBARD WASTEWATER AUTHORITY
MANAGEMENT'S DISCUSSION AND ANALYSIS
December 31, 2017

Equipment Replacement Fund Expenses

The Authority invested over \$9.9 million in the continued replacement and rehabilitation of various capital equipment and plant upgrades during the fiscal year ended December 31, 2017. The major projects undertaken during the year were the UV System Upgrade and the Facility Improvement Plan.

Capital Assets

A schedule of the Authority's capital asset balances is presented below.

	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>
Capital Assets, Not Being Depreciated	<u>\$ 3,689,853</u>	<u>\$ 1,757,788</u>	<u>\$10,599,278</u>
Capital Assets Being Depreciated	88,870,523	94,636,354	95,685,895
Less: Accumulated Depreciation	<u>(54,885,315)</u>	<u>(57,480,371)</u>	<u>(60,029,884)</u>
Total Capital Assets Being Depreciated, Net	<u>33,985,208</u>	<u>37,155,983</u>	<u>35,656,011</u>
Net Capital Assets	<u><u>\$37,675,061</u></u>	<u><u>\$38,913,771</u></u>	<u><u>\$46,255,289</u></u>

For more detailed information, see Note 3 on page 14.

Long-Term Debt

A schedule of the Authority's State of Illinois EPA loan balances at December 31, 2017 is presented below.

	<u>Amount</u>
Digester Project	<u>\$ 4,331,782</u>
Facility Improvement Project	<u>7,548,983</u>
	<u><u>\$ 11,880,765</u></u>

The Authority is in process of drawing down funds for the Facility Improvement Project and the total approved loan amount is \$16,333,300. A final repayment schedule will not be available until construction is complete and final disbursements are reimbursed.

For more detailed information, see Note 3 on pages 15 - 16.

Contacting the Authority's Financial Management

This financial report is designed to provide the users of these financial statements an overview of the Authority's operations and finances and to demonstrate accountability for the funds it receives. Questions concerning these financial statements may be directed to the Authority at 945 Bemis Road, Glen Ellyn, IL 60137.

FINANCIAL STATEMENTS

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Statement of Net Position

December 31, 2017

(with Comparative Information for December 31, 2016)

See Following Page

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Statement of Net Position

December 31, 2017

(with Comparative Information for December 31, 2016)

	December 31, 2017	December 31, 2016
ASSETS		
Current Assets		
Restricted Cash and Investments		
Working Cash Account	\$ 1,220,060	1,086,324
Equipment Replacement Account	4,130,035	1,532,712
Accounts Receivable - Net of Allowances		
Accounts Receivable	42,987	47,323
Member Contributions	31,770	42,395
Loans	385,126	-
Deposits	-	33,682
Inventory and Prepaids	151,873	105,871
Total Current Assets	5,961,851	2,848,307
Noncurrent Assets		
Capital Assets		
Nondepreciable Capital Assets	10,599,278	1,757,788
Depreciable Capital Assets	95,685,895	94,636,354
Accumulated Depreciation	(60,029,884)	(57,480,371)
Total Capital Assets	46,255,289	38,913,771
Other Assets		
Net Pension Asset - IMRF	297,109	-
Total Noncurrent Assets	46,552,398	38,913,771
Total Assets	52,514,249	41,762,078
DEFERRED OUTFLOWS OF RESOURCES		
Deferred Items - IMRF	239,180	400,244
Total Assets and Deferred Outflows of Resources	52,753,429	42,162,322

The notes to the financial statements are an integral part of this statement.

	December 31, 2017	December 31, 2016
LIABILITIES		
Current Liabilities		
Accounts Payable	\$ 2,177,347	298,084
Unearned Rental Revenue	22,144	21,297
Members Payable	189,954	79,352
Accrued Payroll	70,623	76,124
Interest Payable	45,613	51,078
Current Portion of Long-Term Debt	557,962	547,249
Total Current Liabilities	<u>3,063,643</u>	<u>1,073,184</u>
Noncurrent Liabilities		
Compensated Absences	103,813	113,172
Net Pension Liability - IMRF	-	668,206
FIP Loan Payable	7,548,983	-
Digester Loan Payable	3,799,773	4,331,782
Total Noncurrent Liabilities	<u>11,452,569</u>	<u>5,113,160</u>
Total Liabilities	14,516,212	6,186,344
DEFERRED INFLOWS OF RESOURCES		
Deferred Items - IMRF	<u>925,256</u>	<u>51,668</u>
Total Liabilities and Deferred Inflows of Resources	<u>15,441,468</u>	<u>6,238,012</u>
NET POSITION		
Net Investment in Capital Assets	34,374,524	34,063,033
Restricted	<u>2,937,437</u>	<u>1,861,277</u>
Total Net Position	<u>37,311,961</u>	<u>35,924,310</u>

The notes to the financial statements are an integral part of this statement.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Statement of Revenues, Expenses, and Changes in Net Position

For the Fiscal Year Ended December 31, 2017

(with Comparative Information for the Fiscal Year Ended December 31, 2016)

	December 31, 2017	December 31, 2016
Operating Revenues		
Charges to Villages	\$ 7,421,656	7,455,808
Operating Expenses		
Personnel Services	1,648,081	1,669,810
IMRF Pension Expense	69,337	128,868
Contractual Services		
Maintenance	478,057	451,733
Service Charge	128,372	128,372
Sludge Removal	179,218	155,380
Utilities	645,708	1,015,080
Insurance	404,506	411,909
Other	198,992	225,496
Commodities	424,671	147,258
Maintenance of Capital Facilities and Equipment	481,240	315,710
Depreciation	2,549,513	2,624,572
Total Operating Expenses	7,207,695	7,274,188
Operating Income	213,961	181,620
Nonoperating Revenues (Expenses)		
Surplus Contributions	48,692	142,157
Connection Fees	290,110	67,124
Leachate Revenues	156,100	166,863
Fats, Oil & Grease Waste Fees	167,806	35,818
Enernoc Demand Response	-	25,112
Cell Tower Revenues	52,616	27,179
Other Income	15,638	515
Sale of Capital Assets	13,374	12,365
Grant Revenue	517,390	383,000
Investment Income	24,545	8,166
Interest Expense	(112,581)	(125,449)
Total Nonoperating Revenues (Expenses)	1,173,690	742,850
Change in Net Position	1,387,651	924,470
Net Position - Beginning	35,924,310	34,999,840
Net Position - Ending	37,311,961	35,924,310

The notes to the financial statements are an integral part of this statement.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Statement of Cash Flows

For the Fiscal Year Ended December 31, 2017

(with Comparative Information for the Fiscal Year Ended December 31, 2016)

	December 31, 2017	December 31, 2016
Cash Flows from Operating Activities		
Receipts from Charges to Villages	\$ 8,164,852	8,274,429
Payments to Employees	(1,717,418)	(1,669,810)
Payments to Suppliers	(767,335)	(4,048,803)
	<u>5,680,099</u>	<u>2,555,816</u>
Cash Flows from Capital and Related Financing Activities		
Purchase of Capital Assets	(9,891,031)	(3,863,528)
Disposal of Capital Assets	-	246
Issuance of Capital Related Debt	7,548,983	
Interest and Fiscal Charges	(112,581)	(125,449)
Payment of Loans Principal	(518,956)	(506,222)
	<u>(2,973,585)</u>	<u>(4,494,953)</u>
Cash Flows from Investing Activities		
Investment Income	<u>24,545</u>	<u>8,166</u>
Net Change in Cash and Cash Equivalents	2,731,059	(1,930,971)
Cash and Cash Equivalents		
Beginning	<u>2,619,036</u>	<u>4,550,007</u>
Ending	<u>5,350,095</u>	<u>2,619,036</u>
Reconciliation of Operating Income to Net Cash		
Provided (Used) by Operating Activities		
Operating Income	213,961	181,620
Adjustments to Reconcile Operating		
Income to Net Income to Net Cash		
Provided by (Used In) Operating Activities:		
Depreciation Expense	2,549,513	2,624,572
Other Income	1,261,726	860,133
Other Expense	-	128,868
(Increase) Decrease in Current Assets	(518,530)	(41,512)
Increase (Decrease) in Current Liabilities	<u>2,173,429</u>	<u>(1,197,865)</u>
Net Cash Provided by Operating Activities	<u>5,680,099</u>	<u>2,555,816</u>

The notes to the financial statements are an integral part of this statement.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The Glenbard Wastewater Authority, Glen Ellyn, Illinois, Illinois (the “Authority”) was created and established by an agreement dated November 28, 1977, between the Villages of Lombard, Illinois and Glen Ellyn, Illinois, for the purpose of jointly treating and processing wastewater. This agreement has been amended since inception. The last amendment was April 17, 2014. The wastewater is treated in two plants, known as the Glenbard Wastewater Authority and the Lombard Storm Water Facility.

Construction of the facilities was financed by monies appropriated by the Villages and by grants from the U.S. Environmental Protection Authority. The Village of Glen Ellyn, as the designated lead Authority, maintained the Glenbard Lead Authority Construction Fund, which included all transactions relating to planning, design, and construction of the wastewater treatment facilities. The cost of the facilities, which aggregated \$43,297,682, was contributed to the Authority by the Glenbard Lead Authority Construction Fund.

In accordance with the 1977 agreement, as amended in April 1998 and April 2014, the Village of Glen Ellyn provides certain management services (administration, personnel, payroll, data processing, and accounting services) to the Authority. The Village is reimbursed for such services and, therefore, receives a service charge (overhead fee) pursuant to the agreement.

The government-wide financial statements are prepared in accordance with generally accepted accounting principles (GAAP). The Governmental Accounting Standards Board (GASB) is responsible for establishing GAAP for state and local governments through its pronouncements (Statements and Interpretations). The more significant of the Authority’s accounting policies established in GAAP and used by the Authority are described below.

REPORTING ENTITY

In evaluating how to define the Authority for financial reporting purposes, management has considered all potential component units. Criteria for including a component unit in the Authority’s reporting entity principally consist of the potential component unit’s financial interdependency and accountability to the Authority. Based on those criteria, there are no potential component units to be included in the reporting entity. The Authority itself is not a component unit of another governmental entity, but rather is considered to be a jointly governed organization.

BASIS OF PRESENTATION

In the Statement of Net Position, the Authority’s activities are reported on a full accrual, economic resources basis, which recognizes all long-term assets/deferred outflows and receivables as well as long-term obligations/deferred inflows.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES – Continued

BASIS OF PRESENTATION – Continued

The Authority uses funds to report on its financial position and the results of its operations. Fund accounting is designed to demonstrate legal compliance and to aid financial management by segregating transactions related to certain government functions or activities. A fund is a separate accounting entity with a self-balancing set of accounts.

The Authority utilizes a single proprietary fund. Proprietary funds are used to account for activities similar to those found in the private sector, where the determination of net income is necessary or useful to sound financial administration. Goods or services from such activities are provided to outside parties.

MEASUREMENT FOCUS AND BASIS OF ACCOUNTING

Measurement focus is a term used to describe “which” transactions are recorded within the various financial statements. Basis of accounting refers to “when” transactions are recorded regardless of the measurement focus applied.

Measurement Focus

All proprietary funds utilize an “economic resources” measurement focus. The accounting objectives of this measurement focus are the determination of operating income, changes in net position, financial position, and cash flows. All assets/deferred outflows and liabilities/deferred inflows (whether current or noncurrent) associated with their activities are reported. Proprietary fund equity is classified as net position.

Basis of Accounting

The Authority’s basic financial statements are presented using the accrual basis of accounting. Under the accrual basis of accounting, revenues are recognized when earned and expenses are recorded when the liability is incurred or economic asset used.

Proprietary funds distinguish operating revenues and expenses from nonoperating items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with a proprietary fund’s principal ongoing operations. The principal operating revenues of the Authority are charges to customers for services. Operating expenses include the cost of services, administrative expenses, and depreciation and amortization on capital assets. All revenues and expenses not meeting this definition are reported as nonoperating revenues and expenses.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES – Continued

ASSETS/DEFERRED OUTFLOWS, LIABILITIES/DEFERRED INFLOWS, AND NET POSITION OR EQUITY – Continued

Cash and Investments

For the purpose of the Statement of Net Position, the cash and cash equivalents are considered to be cash on hand, demand deposits and short-term investments with original maturities of three months or less from the date of purchase.

Investments are generally reported at fair value. Short-term investments are reported at cost, which approximates fair value. For investments, the Authority categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs. All of the Authority's investments are in 2a7-like investment pools that are measured at the net asset value per share determined by the pool.

Restricted Cash and Investments

Refer to the working cash account and equipment replacement account sections in the Net Position note for details on assets restricted under intergovernmental and grant agreements.

Receivables

In the government-wide financial statements, receivables consist of all revenues earned at year-end and not yet received. There is no allowance for uncollectible since these amounts are expected to be fully collectible. The Authority reports member contributions as its major receivable.

Prepays/Inventories

Certain payments to vendors reflect costs applicable to future accounting periods and are recorded as prepaids in both the government-wide and fund financial statements. Prepays/inventories are valued at cost, which approximates market, using the first-in/first-out (FIFO) method.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES – Continued

ASSETS/DEFERRED OUTFLOWS, LIABILITIES/DEFERRED INFLOWS, AND NET POSITION OR EQUITY – Continued

Capital Assets

Capital assets purchased or acquired are reported at historical cost or estimated historical cost. For movable property, the Authority's capitalization policy includes all items with a unit cost of \$20,000 or more (depending on asset class) and an estimated useful life that is greater than one year. Renovations to buildings and land improvements that significantly increase the value or extend the useful life of the structure are capitalized. Routine repairs and maintenance are charged to operating expense in the year in which the expense was incurred. Donated capital assets are recorded at estimated acquisition value at the date of donation. Depreciation has been provided using the straight-line method over the following estimated useful lives of the assets:

Vehicles	7 Years
Land Improvements	7 - 20 Years
Equipment	10 - 15 Years
Buildings and Improvements	10 - 45 Years
Sewer Lines	40 - 50 Years

Deferred Outflows/Inflows of Resources

Deferred outflow/inflow of resources represents an acquisition of net position that applies to a future period and therefore will not be recognized as an outflow of resources (expense)/inflow of resources (revenue) until that future time.

Compensated Absences

The Authority grants a specific number of annual leave hours bi-weekly with pay to its employees. Earned annual leave and compensatory time may be accumulated and is payable to the employee upon termination of employment and, therefore, is accrued through year-end. Long-term accumulated sick leave is not reimbursable upon termination of employment and, therefore, is not accrued.

Long-Term Obligations

In the financial statements long-term debt and other long-term obligations are reported as liabilities in the Statement of Net Position. Loan premiums and discounts are deferred and amortized over the life of the bonds using the effective interest method. Loans payable are reported net of the applicable loan premium or discount. Loan issuance costs are reported as expenses at the time of issuance.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES – Continued

ASSETS/DEFERRED OUTFLOWS, LIABILITIES/DEFERRED INFLOWS, AND NET POSITION OR EQUITY – Continued

Net Position

In the government-wide financial statements, equity is classified as net position and displayed in two components:

Net Investment in Capital Assets – Consists of capital assets including restricted capital assets, net of accumulated depreciation and reduced by the outstanding balances of any bonds, mortgages, notes or other borrowings that are attributable to the acquisition, construction, or improvement of those assets.

Restricted – Consists of net position with constraints placed on the use either by (1) external groups such as creditors, grantors, contributors, or laws or regulations of other governments; or (2) law through constitutional provisions or enabling legislations.

Unrestricted – All other net position balances that do not meet the definition of “restricted” or “net investment in capital assets.”

The Authority considers restricted amounts to have been spent when an expenditure is incurred for purposes for which both restricted and unrestricted fund position is available.

NOTE 2 – STEWARDSHIP, COMPLIANCE AND ACCOUNTABILITY

BUDGETARY INFORMATION

Budgeted amounts used for comparison in this report are obtained from the operating budget of the Authority, approved by Glenbard Wastewater Authority Board of Directors, which is prepared in accordance with generally accepted accounting principles, except that depreciation expense is not part of the operating budget, and note principal payments are budgeted as expenses. The budget amounts included in the supplemental information are from the final adopted budget, including all amendments, which were not significant. The budget lapses at the end of the fiscal year.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 3 – DETAILED NOTES ON THE BASIC FINANCIAL STATEMENTS

DEPOSITS AND INVESTMENTS

Permitted Deposits and Investments – Statutes authorize the Authority to make deposits/invest in commercial banks, savings and loan institutions, obligations of the U.S. Treasury and U.S. Agencies, obligations of States and their political subdivisions, credit union shares, repurchase agreements, commercial paper rated within the three highest classifications by at least two standard rating services, and the Illinois Funds and Illinois Metropolitan Investment Fund investment pools.

Illinois Funds is an investment pool management by the Illinois Public Treasurer's Office, which allows governments within the state to pool their funds for investment purposes. Although not registered with the SEC, Illinois Funds does operate in a manner consistent with Rule 2a7 of the investment company Act of 1940. Investments in Illinois Funds are valued at the share price, the price for which the investment could be sold.

The Illinois Metropolitan Investment Fund (IMET) is a non-for-profit investment trust formed pursuant to the Illinois Municipal Code. IMET is managed by a Board of Trustees elected from the participating members. IMET is not registered with the SEC as an Investment Company. Investments in IMET are valued at the share price, the price for which the investment could be sold.

Interest Rate Risk, Credit Risk, Custodial Credit Risk and Concentration Risk

Deposits. At year-end, the carrying amount of the Authority's deposits totaled \$2,726,624 and the bank balances totaled \$2,764,641. The Authority also has \$1,055,990 invested in the Illinois Funds and \$1,567,481 in IMET at year end.

Interest Rate Risk. Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. The Authority's investment policy states they will attempt to match its investments with anticipated cash flows requirements. Unless matched to a specific cash flow, the Authority will not directly invest in securities maturing more than five years from the date of purchase. Any investment purchased with a maturity longer than four years must be supported with written documentation explaining the reason for the purchase and must be supported with written documentation explaining the reason for the purchase and must be specifically approved by the Authority Board. The Authority's investments in the Illinois Funds and IMET have an average maturity of less than one year.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 3 – DETAILED NOTES ON THE BASIC FINANCIAL STATEMENTS – Continued

DEPOSITS AND INVESTMENTS – Continued

Interest Rate Risk, Credit Risk, Custodial Credit Risk and Concentration Risk – Continued

Credit Risk. Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. The Authority may invest in any type of security authorized by the State of Illinois Public Funds Investment Act (30 ILCS 235/) regarding the investment of public funds. The Authority's investments in the Illinois Funds is rated AAAm by Standard & Poor's and the Authority's investment in IMET is not rated.

Custodial Credit Risk. In the case of deposits, this is the risk that in the event of a bank failure, the Authority's deposits may not be returned to it. The Authority's policy requires that funds on deposit in excess of FDIC limits be secured by some form of collateral. The Authority will accept government securities, obligations of federal agencies, obligations of federal instrumentalities, and obligations of the State of Illinois. At year end, the entire bank balance was covered by collateral, federal depository or equivalent insurance.

For an investment, this is the risk that, in the event of the failure of the counterparty, the Authority will not be able to recover the value of its investments or collateral securities that are in the possession of an outside party. At December 31, 2017, the Authority's investment in the Illinois Funds and IMET funds are not subject to custodial credit risk.

Concentration of Credit Risk. This is the risk of loss attributed to the magnitude of the Authority's investment in a single issuer. At year-end, the Authority does not have any investments over 5 percent of cash and investments (other than investments issued or explicitly guaranteed by the U.S. government and investments in mutual funds, external investment pools, and other pooled investments).

CONSTRUCTION COMMITMENTS

The Authority has entered into contracts for the construction or renovation of various facilities as follows:

Project	Expended to Date	Remaining Commitment
Facility Improvement Plan	\$ 8,109,891	10,379,409

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 3 – DETAILED NOTES ON THE BASIC FINANCIAL STATEMENTS – Continued

CAPITAL ASSETS

The following is a summary of capital assets as of the date of this report:

	Beginning Balances	Additions	Deletions	Ending Balances
Nondepreciable Capital Assets				
Land	\$ 466,788	-	-	466,788
Construction in Progress	1,291,000	9,699,162	857,672	10,132,490
	<u>1,757,788</u>	<u>9,699,162</u>	<u>857,672</u>	<u>10,599,278</u>
Depreciable Capital Assets				
Glenbard Plant	66,448,925	1,049,541	-	67,498,466
Stormwater Plant	11,865,247	-	-	11,865,247
North Regional Interceptor	10,751,759	-	-	10,751,759
South Regional Interceptor	5,570,423	-	-	5,570,423
	<u>94,636,354</u>	<u>1,049,541</u>	<u>-</u>	<u>95,685,895</u>
Less Accumulated Depreciation				
Glenbard Plant	39,036,324	1,751,747	-	40,788,071
Stormwater Plant	8,416,284	259,307	-	8,675,591
North Regional Interceptor	7,063,812	301,352	-	7,365,164
South Regional Interceptor	2,963,951	237,107	-	3,201,058
	<u>57,480,371</u>	<u>2,549,513</u>	<u>-</u>	<u>60,029,884</u>
Total Net Depreciable Capital Assets	<u>37,155,983</u>	<u>(1,499,972)</u>	<u>-</u>	<u>35,656,011</u>
Total Net Capital Assets	<u>38,913,771</u>	<u>8,199,190</u>	<u>857,672</u>	<u>46,255,289</u>

Depreciation was allocated to the members as follows:

Village of Lombard	\$ 1,368,451
Village of Glen Ellyn	<u>1,181,062</u>
	<u>2,549,513</u>

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 3 – DETAILED NOTES ON THE BASIC FINANCIAL STATEMENTS – Continued

LONG-TERM DEBT

Loans Payable

The Authority has entered into loan agreements to provide low interest financing for capital improvements. Loans currently outstanding are as follows:

Issue	Beginning Balances	Issuances	Retirements	Ending Balances (a)
Anaerobic Digester Loan Payable dated October 10, 2007, due in annual installments of \$319,271, including interest at 2.500%, through July 31, 2024.	\$ 4,850,738	-	518,956	4,331,782 (b)
Facility Improvement Project Loan Payable dated September 23, 2016, due in annual installments of \$425,208, including interest at 1.750%, through October 10, 2039.	-	7,548,983	-	7,548,983 (c)
	4,850,738	7,548,983	518,956	11,880,765

(a) Includes construction interest.

(b) Amounts disbursed as of the date of the audit report is \$7,703,497. Total approved loan amount is \$7,700,000. The future debt service shown here has been calculated based on a preliminary repayment schedule issued by the IEPA and adjusted for final disbursements reimbursed. As of December 31, 2017, there were no additional loan requests outstanding. The original amount exceeds the \$7,700,000 due to estimated construction interest.

(c) Amounts disbursed as of the date of the audit report is \$7,548,983. Total approved loan amount is \$16,333,300. The final repayment schedule for this loan will not be available until construction is complete and final disbursements are reimbursed.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 3 – DETAILED NOTES ON THE BASIC FINANCIAL STATEMENTS – Continued

LONG-TERM DEBT – Continued

Long-Term Liability Activity

Changes in long-term liabilities during the fiscal year were as follows:

Type of Debt	Beginning Balances	Additions	Deductions	Ending Balances	Amounts Due within One Year
Compensated Absences	\$ 141,465	11,699	23,398	129,766	25,953
Net Pension Liability/(Asset) - IMRF	668,206	-	965,315	(297,109)	-
Loans Payable	4,850,738	7,548,983	518,956	11,880,765	532,009
	5,660,409	7,560,682	1,507,669	11,713,422	557,962

Debt Service Requirements to Maturity

The annual debt service requirements to maturity, including principal and interest, are as follows:

Fiscal Year	Loans Payable	
	Principal	Interest
2018	\$ 532,009	104,990
2019	545,394	91,607
2020	559,115	77,887
2021	573,180	63,822
2022	587,599	49,402
2023	602,381	34,621
2024	617,534	19,467
2025	314,570	3,932
	4,331,782	445,728

The Facility Improvement Project Loan Payable does not have final repayment schedule; therefore, is not included in the debt service requirements to maturity above.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 3 – DETAILED NOTES ON THE BASIC FINANCIAL STATEMENTS – Continued

NET POSITION

Net Position Classification

Net position consists of the following as of December 31, 2017 and December 31, 2016:

	December 31, 2017	December 31, 2016
Net Position		
Net Investment in Capital Assets	\$ 34,374,524	34,063,033
Equipment Replacement Account (Restricted)	2,476,993	1,332,027
Working Cash Account (Restricted)	460,444	529,250
Total Net Position	37,311,961	35,924,310

Net investment in capital assets was comprised of the following as of December 31, 2017 and December 31, 2016:

	December 31, 2017	December 31, 2016
Business-Type Activities		
Capital Assets - Net of Accumulated Depreciation	\$ 46,255,289	38,913,771
Less Capital Related Debt:		
Loans Payable	(11,880,765)	(4,850,738)
Net Investment in Capital Assets	34,374,524	34,063,033

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 3 – DETAILED NOTES ON THE BASIC FINANCIAL STATEMENTS – Continued

NET POSITION – Continued

Equipment Replacement Fund

The equipment replacement account is required under the grant agreement from the U.S. Environmental Protection Agency and represents accumulated funds held for plan and equipment replacement. The activities for the years ended December 31, 2017 and December 31, 2016 are as follows:

	December 31, 2017	December 31, 2016
Beginning Balance	\$ 35,395,060	34,357,100
Revenue and Expense Results within Equipment Replacement Sub-Fund	545,342	184,115
Surplus Contributions	48,692	142,157
Investment Income (Loss)	11,936	6,260
Service Fees Charged to Villages	3,400,000	3,330,000
Depreciation	(2,549,513)	(2,624,572)
	36,851,517	35,395,060
Less: Net Investment in Capital Assets	(34,374,524)	(34,063,033)
Restricted for Future Plant and Equipment Replacement	2,476,993	1,332,027

Working Cash Account

The agreement dated November 28, 1977 and all amended agreements as of March 31, 1987 between the Villages were amended as of April 16, 1998. The purpose of the amendment was to provide the Authority the ability to maintain a working cash account as of the end of the fiscal year at a level not less than 25% of the annual operating and maintenance expenses exclusive of depreciation and equipment replacement. Working cash is calculated as the total general ledger cash and short-term investment balances less all current and prior open encumbrances (Operating Sub-Fund only). In the event the working cash balance at the end of the fiscal year is less than 25% of the annual operating expenses exclusive of depreciation and equipment replacement, each of the Villages will contribute an amount sufficient to adjust the working cash balance to the minimum amount required. The required contribution by the Villages is based upon their proportionate share of total operating expenses for the year. No additional funding is required by the Villages in the event the minimum 25% of operating expense working cash requirement is satisfied as of the end of the fiscal year. Additionally, the amendment also was designed to modify the payment process with the Villages. The following is the calculation of the working cash account required:

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 3 – DETAILED NOTES ON THE BASIC FINANCIAL STATEMENTS – Continued

NET POSITION – Continued

Working Cash Account – Continued

	Village of Lombard	Village of Glen Ellyn	December 31, 2017	December 31, 2016
Operating Expenses (as Defined in Intergovernmental Agreement)	\$ 2,316,268	1,722,912	4,039,180	4,124,234
Minimum Working Capital Balance (25% of Operating Expenses)	\$ 579,067	430,728	1,009,795	1,031,059
Cash and Investments - Operating Sub-Fund			\$ 1,220,060	1,086,324
Less: Outstanding Encumbrances			(21,702)	(520)
Working Cash			1,198,358	1,085,804
Less: Required Working Cash			(1,009,795)	(1,031,059)
Working Cash over Minimum Requirement			188,563	54,746

Working cash balance computation:

	Village of Lombard	Village of Glen Ellyn	Totals
Amount Required	\$ (579,067)	(430,728)	(1,009,795)
Amount Available	666,407	531,951	1,198,358
Cash Reserve Excess	87,340	101,223	188,563

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 4 – OTHER INFORMATION

RISK MANAGEMENT

The Authority is exposed to various risks of loss related to torts; theft of, damage to and destruction of assets; errors and omissions; natural disasters; and injuries to the Authority's employees. These risks are covered by commercial insurance. There has been no significant reduction in coverage in any program from coverage in the prior year. For all programs, settlement amounts have not exceeded insurance coverage for the past three years.

Municipal Insurance Cooperative Association

Effective January 1, 2003, the Authority joined together with other local governments in Illinois in the Municipal Insurance Cooperative Association (MICA). MICA is a public entity risk pool operating a common risk management and insurance program for its member governments. The Authority pays an annual premium to MICA based upon the Authority's prior experience within the pool. Amounts paid into the pool in excess of claims for any coverage year may be rebated back to members in subsequent periods. The Authority is not aware of any additional premiums owed to MICA for the current or prior year claims. The Authority pays the first \$1,000 for property, liability and crime claims. MICA maintains selective reinsurance contracts to cover potential claims to the total loss aggregate for all members of \$11,750,000. MICA also purchases excess coverage of \$400,000,000 for property liability and \$9,000,000 for other liability.

Intergovernmental Risk Management Agency (IRMA)

Prior to joining MICA, the Authority participated in the Intergovernmental Risk Management Agency (IRMA) through December 31, 2002. IRMA is an organization of municipalities and special districts in Northeastern Illinois which have formed an association under the Illinois Intergovernmental Cooperation's Statute to pool its risk management needs. The agency administers a mix of self-insurance and commercial insurance coverages; property/casualty and workers' compensation claim administration/litigation management services; unemployment claim administration; extensive risk management/loss control consulting and training programs; and a risk information system and financial reporting service for its members.

IRMA has actuarially calculated loss reserves for claims incurred while the Authority was an active member. The Authority has continuing responsibilities to IRMA for any open claims that exceed the reserved amounts. These claims are offset by the Authority's \$28,533 member reserve balance with IRMA.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 4 – OTHER INFORMATION – Continued

RISK MANAGEMENT – Continued

Intergovernmental Personnel Benefit Cooperative (IPBC)

Risks for medical and death benefits for employees and retirees are provided for through the Authority's participation in the Intergovernmental Personnel Benefit Cooperative (IPBC) (through the Village of Glen Ellyn). IPBC acts as an administrative agency to receive, process and pay such claims as may come within the benefit program of each member. IPBC maintains specific reinsurance coverage for claims in excess of \$50,000 per individual employee participant. The Authority pays premiums to IPBC based upon current employee participation and its prior experience factor with the pool. Current year overages or underages for participation in the pool are adjusted into subsequent years' experience factor for premiums.

CONTINGENT LIABILITIES

Litigation

The Authority is a defendant in various lawsuits. Although the outcome of these lawsuits is not presently determinable, in the opinion of the Authority's attorney, the resolution of these matters will not have a material adverse effect on the financial condition of the Authority.

EMPLOYEE RETIREMENT SYSTEM – DEFINED BENEFIT PENSION PLAN

Illinois Municipal Retirement Fund (IMRF)

The Authority contributes to the Illinois Municipal Retirement Fund (IMRF), through the Village of Glen Ellyn's, a defined benefit agent multiple-employer public employee retirement system that acts as a common investment and administrative agent for local governments and school districts in Illinois. IMRF provides retirement, disability, annual cost-of-living adjustments and death benefits to plan members and beneficiaries. IMRF issues a publicly available financial report that includes financial statements and required supplementary information for the plan as a whole, but not by individual employer. That report may be obtained online at www.imrf.org. The benefits, benefit levels, employee contributions, and employer contributions are governed by Illinois Compiled Statutes (ILCS) and can only be amended by the Illinois General Assembly.

Plan Descriptions

Plan Administration. All employees hired in positions that meet or exceed the prescribed annual hourly standard must be enrolled in IMRF as participating members. The plan is accounted for on the economic resources measurement focus and the accrual basis of accounting. Employer and employee contributions are recognized when earned in the year that the contributions are required, benefits and refunds are recognized as an expense and liability when due and payable.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 4 – OTHER INFORMATION – Continued

EMPLOYEE RETIREMENT SYSTEM – DEFINED BENEFIT PENSION PLAN – Continued

Illinois Municipal Retirement Fund (IMRF) – Continued

Plan Descriptions – Continued

Benefits Provided. IMRF has three benefit plans. The vast majority of IMRF members participate in the Regular Plan (RP). The Sheriff's Law Enforcement Personnel (SLEP) plan is for sheriffs, deputy sheriffs, and selected police chiefs. Counties could adopt the Elected County Official (ECO) plan for officials elected prior to August 8, 2011 (the ECO plan was closed to new participants after that date).

IMRF provides two tiers of pension benefits. Employees hired *before* January 1, 2011, are eligible for Tier 1 benefits. Tier 1 employees are vested for pension benefits when they have at least eight years of qualifying service credit. Tier 1 employees who retire at age 55 (at reduced benefits) or after age 60 (at full benefits) with eight years of service are entitled to an annual retirement benefit, payable monthly for life, in an amount equal to 1-2/3% of the final rate of earnings for the first 15 years of service credit, plus 2% for each year of service credit after 15 years to a maximum of 75% of their final rate of earnings. Final rate of earnings is the highest total earnings during any consecutive 48 months within the last 10 years of service, divided by 48. Under Tier 1, the pension is increased by 3% of the original amount on January 1 every year after retirement.

Employees hired *on or after* January 1, 2011, are eligible for Tier 2 benefits. For Tier 2 employees, pension benefits vest after ten years of service. Participating employees who retire at age 62 (at reduced benefits) or after age 67 (at full benefits) with ten years of service are entitled to an annual retirement benefit, payable monthly for life, in an amount equal to 1-2/3% of the final rate of earnings for the first 15 years of service credit, plus 2% for each year of service credit after 15 years to a maximum of 75% of their final rate of earnings. Final rate of earnings is the highest total earnings during any 96 consecutive months within the last 10 years of service, divided by 96. Under Tier 2, the pension is increased on January 1 every year after retirement, upon reaching age 67, by the *lesser* of:

- 3% of the original pension amount, or
- 1/2 of the increase in the Consumer Price Index of the original pension amount.

Plan Membership. As of December 31, 2017, the measurement date, the following employees were covered by the benefit terms:

Active Plan Members

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A detailed breakdown of IMRF membership for the Village, Library, and the Authority combined is available in the Village of Glen Ellyn's comprehensive annual financial report.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 4 – OTHER INFORMATION – Continued

EMPLOYEE RETIREMENT SYSTEM – DEFINED BENEFIT PENSION PLAN – Continued

Illinois Municipal Retirement Fund (IMRF) – Continued

Plan Descriptions – Continued

Contributions. As set by statute, the Authority's Regular Plan Members are required to contribute 4.5% of their annual covered salary. The statute requires employers to contribute the amount necessary, in addition to member contributions, to finance the retirement coverage of its own employees. For the year-ended December 31, 2017, the Authority's contribution was 10.44% of covered payroll.

Net Pension Liability. The Authority's net pension liability was measured as of December 31, 2017. The total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date.

Actuarial Assumptions. The total pension liability was determined by an actuarial valuation performed, as of December 31, 2017, using the following actuarial methods and assumptions:

Actuarial Cost Method	Entry Age Normal
Asset Valuation Method	Market
Actuarial Assumptions	
Interest Rate	7.50%
Salary Increases	3.39% - 14.25%
Cost of Living Adjustments	2.50%
Inflation	2.50%

For nondisabled retirees, an IMRF specific mortality table was used with fully generational projection scale MP-2017 (base year 2015). IMRF specific rates were developed from the RP-2014 Blue Collar Health Annuitant Mortality Table with adjustments to match current IMRF experience. For disabled retirees, an IMRF specific mortality tables was used with fully generational projection scale MP-2017 (base year 2015). IMRF specific rates were developed from the RP-2014 Disabled Retirees Mortality Table applying the same adjustment that were applied for nondisabled lives. For active members, an IMRF specific mortality table was used with fully generational projection scale MP-2017 (base year 2015). IMRF specific rates were developed from the RP-2014 Employee Mortality Table with adjustments to match current IMRF experience.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 4 – OTHER INFORMATION – Continued

EMPLOYEE RETIREMENT SYSTEM – DEFINED BENEFIT PENSION PLAN – Continued

Illinois Municipal Retirement Fund (IMRF) – Continued

Plan Descriptions – Continued

Actuarial Assumptions – Continued. The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense, and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return to the target asset allocation percentage and adding expected inflation. The target allocation and best estimates of geometric real rates of return for each major asset class are summarized in the following table:

Asset Class	Target	Long-Term Expected Real Rate of Return
Fixed Income	27%	3.0%
Domestic Equities	38%	6.9%
International Equities	17%	6.8%
Real Estate	8%	5.8%
Blended	9%	2.65% - 7.35%
Cash and Cash Equivalents	1%	2.3%

Discount Rate

The discount rate used to measure the total pension liability was 7.50%, the same as the prior valuation. The projection of cash flows used to determine the discount rate assumed that member contributions will be made at the current contribution rate and that Authority contributions will be made at rates equal to the difference between the actuarially determined contribution rates and the member rate. Based on those assumptions, the IMRF's fiduciary net position was projected to be available to make all project future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all period of projected benefit payments to determine the total pension liability.

Discount Rate Sensitivity

The following is a sensitivity analysis of the net pension liability/(asset) to changes in the discount rate. The table below presents the pension liability/(asset) of the Authority calculated using the discount rate as well as what the Authority's net pension liability/(asset) would be if it were calculated using a discount rate that is one percentage point lower or one percentage point higher than the current rate:

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

**Notes to the Financial Statements
December 31, 2017**

NOTE 4 – OTHER INFORMATION – Continued

EMPLOYEE RETIREMENT SYSTEM – DEFINED BENEFIT PENSION PLAN – Continued

Illinois Municipal Retirement Fund (IMRF) – Continued

Discount Rate Sensitivity – Continued

		1% Decrease (6.50%)	Current Discount Rate (7.50%)	1% Increase (8.50%)
Net Pension Liability/(Asset)	\$	688,864	(297,109)	(1,114,050)

Changes in the Net Pension Liability

	Total Pension Liability (A)	Plan Fiduciary Net Position (B)	Net Pension Liability (A) - (B)
Balances at December 31, 2016	\$ 8,896,138	8,227,932	668,206
Changes for the Year:			
Service Cost	137,350	-	137,350
Interest on the Total Pension Liability	615,459	-	615,459
Difference Between Expected and Actual Experience of the Total Pension Liability	(73,414)	-	(73,414)
Changes of Assumptions	(257,267)	-	(257,267)
Contributions - Employer	-	135,586	(135,586)
Contributions - Employees	-	58,474	(58,474)
Net Investment Income	-	1,413,859	(1,413,859)
Benefit Payments, Including Refunds of Employee Contributions	(431,868)	(431,868)	-
Other (Net Transfer)	-	(220,476)	220,476
Net Changes	(9,740)	955,575	(965,315)
Balances at December 31, 2017	8,886,398	9,183,507	(297,109)

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Notes to the Financial Statements December 31, 2017

NOTE 4 – OTHER INFORMATION – Continued

EMPLOYEE RETIREMENT SYSTEM – DEFINED BENEFIT PENSION PLANS – Continued

Illinois Municipal Retirement – Continued

Pension Expense, Deferred Outflows of Resources, and Deferred Inflows of Resources Related to Pensions

For the year ended December 31, 2017, the Authority recognized pension expense of \$204,571. At December 31, 2017, the Authority reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources	Totals
Difference Between Expected and Actual Experience	\$ -	(73,381)	(73,381)
Change in Assumptions	-	(184,280)	(184,280)
Net Difference Between Projected and Actual Earnings on Pension Plan Investments	239,180	(667,595)	(428,415)
Total Deferred Amounts Related to IMRF	239,180	(925,256)	(686,076)

Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense in future periods as follows:

Fiscal Year	Net Deferred (Inflows) of Resources
2018	\$ (173,972)
2019	(149,066)
2020	(196,139)
2021	(166,899)
2022	-
Thereafter	-
Total	(686,076)

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

**Notes to the Financial Statements
December 31, 2017**

NOTE 4 – OTHER INFORMATION – Continued

OTHER POST-EMPLOYMENT BENEFITS

The Authority has evaluated its potential other post-employment benefits liability. Former employees who choose to retain their rights to health insurance through the Authority are required to pay 100% of the current premium. However, there is minimal participation. As the Authority provides no explicit benefit, and there is minimal participation, there is no material implicit subsidy to calculate in accordance with GASB Statement No. 45, *Accounting and Financial Reporting by Employers for Post-Employment Benefits Other Than Pensions*. Therefore, the Authority has not recorded a liability as of December 31, 2017.

REQUIRED SUPPLEMENTARY INFORMATION

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Illinois Municipal Retirement Fund

Required Supplementary Information

Schedule of Employer Contributions

December 31, 2017

Fiscal Year	Actuarially Determined Contribution	Contributions in Relation to the Actuarially Determined Contribution	Contribution Excess/ (Deficiency)	Covered Payroll	Contributions as a Percentage of Covered Payroll
2015	\$ 128,318	\$ 128,318	\$ -	\$ 1,186,197	10.82%
2016	140,036	139,480	(556)	1,294,237	10.78%
2017	134,225	135,586	1,361	1,298,110	10.44%

Notes to the Required Supplementary Information:

Actuarial Cost Method	Entry Age Normal
Amortization Method	Level % Pay (Closed)
Remaining Amortization Period	26 Years
Asset Valuation Method	5-Year Smoothed Market
Inflation	2.75%
Salary Increases	3.75% - 14.50%
Investment Rate of Return	7.50%
Retirement Age	See the Notes to the Financial Statements
Mortality	An IMRF specific mortality table was used with fully generational projection scale MP-2014 (base year 2012).

Note:

This schedule is intended to show information for ten years. Information for additional years will be displayed as it becomes available.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS**Illinois Municipal Retirement Fund**
Required Supplementary Information
Schedule of Changes in the Employer's Net Pension Liability
December 31, 2017

	2015	2016	2017
Total Pension Liability			
Service Cost	\$ 123,338	128,961	137,350
Interest	605,696	628,935	615,459
Differences Between Expected and Actual Experience	97,561	(67,729)	(73,414)
Change of Assumptions	9,922	(9,982)	(257,267)
Benefit Payments, Including Refunds of Member Contributions	(399,698)	(434,992)	(431,868)
Net Change in Total Pension Liability	436,819	245,193	(9,740)
Total Pension Liability - Beginning	8,214,126	8,650,945	8,896,138
Total Pension Liability - Ending	8,650,945	8,896,138	8,886,398
Plan Fiduciary Net Position			
Contributions - Employer	\$ 128,318	139,480	135,586
Contributions - Members	54,005	59,117	58,474
Net Investment Income	39,822	543,260	1,413,859
Benefit Payments, Including Refunds of Member Contributions	(399,698)	(434,992)	(431,868)
Other (Net Transfer)	45,862	(20,365)	(220,476)
Net Change in Plan Fiduciary Net Position	(131,691)	286,500	955,575
Plan Net Position - Beginning	8,073,123	7,941,432	8,227,932
Plan Net Position - Ending	7,941,432	8,227,932	9,183,507
Employer's Net Pension Liability	\$ 709,513	668,206	(297,109)
Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	91.80%	92.49%	103.34%
Covered Payroll	\$ 1,186,197	1,294,237	1,298,110
Employer's Net Pension Liability as a Percentage of Covered Payroll	59.81%	51.63%	(22.89)%

Note:

This schedule is intended to show information for ten years. Information for additional years will be displayed as it becomes available.

SUPPLEMENTAL SCHEDULES

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

**Combining Statement of Net Position
December 31, 2017**

See Following Page

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Combining Statement of Net Position

December 31, 2017

	Operating Sub-Fund	Equipment Replacement Sub-Fund	Totals
ASSETS			
Current Assets			
Restricted Cash and Investments			
Working Cash Account	\$ 1,220,060	-	1,220,060
Equipment Replacement Account	-	4,130,035	4,130,035
Accounts Receivable - Net of Allowances			
Accounts Receivable	-	42,987	42,987
Member Contributions			
Village of Lombard	-	31,770	31,770
Loans	-	385,126	385,126
Prepays	84,745	25,806	110,551
Inventory	-	41,322	41,322
Total Current Assets	1,304,805	4,657,046	5,961,851
Noncurrent Assets			
Capital Assets			
Nondepreciable Capital Assets	-	10,599,278	10,599,278
Depreciable Capital Assets	-	95,685,895	95,685,895
Accumulated Depreciation	-	(60,029,884)	(60,029,884)
Total Capital Assets	-	46,255,289	46,255,289
Other Assets			
Net Pension Asset - IMRF	284,957	12,152	297,109
Total Noncurrent Assets	284,957	46,267,441	46,552,398
Total Assets	1,589,762	50,924,487	52,514,249
DEFERRED OUTFLOWS OF RESOURCES			
Deferred Items - IMRF	229,398	9,782	239,180
Total Assets and Deferred Outflows of Resources	1,819,160	50,934,269	52,753,429

	Operating Sub-Fund	Equipment Replacement Sub-fund	Totals
LIABILITIES			
Current Liabilities			
Accounts Payable	\$ 112,452	2,064,895	2,177,347
Unearned Rental Revenue	-	22,144	22,144
Accrued Payroll	70,623	-	70,623
Interest Payable	-	45,613	45,613
Members Accounts Payable			
Village of Glen Ellyn	140,157	31,492	171,649
Village of Lombard	18,305	-	18,305
Current Portion of Long-Term Debt	25,953	532,009	557,962
Total Current Liabilities	367,490	2,696,153	3,063,643
Noncurrent Liabilities			
Compensated Absences	103,813	-	103,813
FIP Loan Payable	-	7,548,983	7,548,983
Digester Loan Payable	-	3,799,773	3,799,773
Total Noncurrent Liabilities	103,813	11,348,756	11,452,569
Total Liabilities	471,303	14,044,909	14,516,212
DEFERRED INFLOWS OF RESOURCES			
Deferred Items - IMRF	887,413	37,843	925,256
Total Liabilities and Deferred Inflows of Resources	1,358,716	14,082,752	15,441,468
NET POSITION			
Net Investment in Capital Assets	-	34,374,524	34,374,524
Restricted	460,444	2,476,993	2,937,437
Total Net Position	460,444	36,851,517	37,311,961

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

**Combining Statement of Revenues, Expenses, and Changes in Net Position - Budget and Actual
For the Fiscal Year Ended December 31, 2017**

	Operating Sub-Fund	Equipment Replacement Sub-Fund	Totals
Operating Revenues			
Charges to Villages	\$ 4,021,656	3,400,000	7,421,656
Operating Expenses			
Personnel Services	1,583,225	64,856	1,648,081
IMRF Pension Expense	68,806	531	69,337
Contractual Services			
Maintenance	478,057	-	478,057
Service Charge	128,372	-	128,372
Sludge Removal	179,218	-	179,218
Utilities	645,708	-	645,708
Insurance	400,937	3,569	404,506
Other	198,992	-	198,992
Commodities	424,671	-	424,671
Maintenance of Capital Facilities and Equipment	-	481,240	481,240
Depreciation	-	2,549,513	2,549,513
Total Operating Expenses	4,107,986	3,099,709	7,207,695
Operating Income (Loss)	(86,330)	300,291	213,961
Nonoperating Revenues (Expenses)			
Surplus Contribution	-	48,692	48,692
Connection Fees	-	290,110	290,110
Leachate Revenues	-	156,100	156,100
Fats, Oil & Grease Waste Fees	-	167,806	167,806
Cell Tower Revenues	-	52,616	52,616
Other Income	4,915	10,723	15,638
Sale of Capital Assets	-	13,374	13,374
Grant Revenue	-	517,390	517,390
Investment Income	12,609	11,936	24,545
Interest Expense	-	(112,581)	(112,581)
Total Nonoperating Revenues (Expenses)	17,524	1,156,166	1,173,690
Change in Net Position	(68,806)	1,456,457	1,387,651
Net Position - Beginning	529,250	35,395,060	35,924,310
Net Position - Ending	460,444	36,851,517	37,311,961

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

**Combining Statement of Cash Flows
December 31, 2017**

	Operating Sub-Fund	Equipment Replacement Sub-Fund	Totals
Cash Flows from Operating Activities			
Receipts from Charges to Villages	\$ 3,928,078	4,236,774	8,164,852
Payments to Employees	(1,652,031)	(65,387)	(1,717,418)
Payments to Suppliers	(2,154,920)	1,387,585	(767,335)
	<u>121,127</u>	<u>5,558,972</u>	<u>5,680,099</u>
Cash Flows from Capital and Related Financing Activities			
Purchase of Capital Assets	-	(9,891,031)	(9,891,031)
Issuance of Capital Related Debt	-	7,548,983	7,548,983
Interest and Fiscal Charges	-	(112,581)	(112,581)
Payment of Bond Principal	-	(518,956)	(518,956)
	<u>-</u>	<u>(2,973,585)</u>	<u>(2,973,585)</u>
Cash Flows from Investing Activities			
Investment Income	<u>12,609</u>	<u>11,936</u>	<u>24,545</u>
Net Change in Cash and Cash Equivalents	133,736	2,597,323	2,731,059
Cash and Cash Equivalents			
Beginning	<u>1,086,324</u>	<u>1,532,712</u>	<u>2,619,036</u>
Ending	<u>1,220,060</u>	<u>4,130,035</u>	<u>5,350,095</u>
Reconciliation of Operating Income to Net Cash Provided (Used) by Operating Activities			
Operating Income	(86,330)	300,291	213,961
Adjustments to Reconcile Operating Income to Net Income to Net Cash			
Provided by (Used In) Operating Activities:			
Depreciation Expense	-	2,549,513	2,549,513
Other Income	4,915	1,256,811	1,261,726
(Increase) Decrease in Current Assets	(98,493)	(420,037)	(518,530)
Increase (Decrease) in Current Liabilities	301,035	1,872,394	2,173,429
Net Cash Provided by Operating Activities	<u>121,127</u>	<u>5,558,972</u>	<u>5,680,099</u>

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS**Operating Sub-Fund****Statement of Revenues, Expenses, and Changes in Net Position - Budget and Actual
For the Fiscal Year Ended December 31, 2017
(with Comparative Information for the Fiscal Year Ended December 31, 2016)**

	For the Fiscal Year Ended December 31, 2017		
	Budget	Actual	Variance Over (Under)
Operating Revenues			
Charges to Villages	\$ 4,181,050	4,021,656	(159,394)
Operating Expenses			
Personnel Services	1,648,000	1,583,225	(64,775)
IMRF Pension Expense	-	68,806	68,806
Contractual Services			
Maintenance	655,350	478,057	(177,293)
Service Charge	128,400	128,372	(28)
Sludge Removal	170,000	179,218	9,218
Utilities	422,100	645,708	223,608
Insurance	411,000	400,937	(10,063)
Other	221,800	198,992	(22,808)
Commodities	527,900	424,671	(103,229)
Total Operating Expenses	4,184,550	4,107,986	(76,564)
Operating Income (Loss)	(3,500)	(86,330)	(235,958)
Nonoperating Revenues			
Other Income (Loss)	-	4,915	12,423
Interest Income	3,500	12,609	23
Total Nonoperating Revenues	3,500	17,524	12,446
Change in Net Position	-	(68,806)	(223,512)
Net Position - Beginning		529,250	
Net Position - Ending		460,444	

For the Fiscal Year Ended December 31, 2016		
Budget	Actual	Variance Over (Under)
\$ 4,174,500	4,125,808	(48,692)
1,619,400	1,592,611	(26,789)
-	113,490	113,490
542,250	451,733	(90,517)
128,400	128,372	(28)
170,000	155,380	(14,620)
905,750	1,015,080	109,330
422,800	408,304	(14,496)
219,300	225,496	6,196
170,100	147,258	(22,842)
4,178,000	4,237,724	59,724
(3,500)	(111,916)	11,032
-	(3,480)	12,423
3,500	1,906	23
3,500	(1,574)	12,446
-	(113,490)	23,478
	642,740	
	529,250	

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Equipment Replacement Sub-Fund

**Statement of Revenues, Expenses, and Changes in Net Position - Budget and Actual
For the Fiscal Year Ended December 31, 2017
(with Comparative Information for the Fiscal Year Ended December 31, 2016)**

	For the Fiscal Year Ended December 31, 2017		
	Budget	Actual	Variance Over (Under)
Operating Revenues			
Charges to Villages	\$ 3,400,000	3,400,000	-
Operating Expenses			
Personnel Services	97,000	64,856	32,144
IMRF Pension Expense	-	531	(531)
Contractual			
Insurance	5,000	3,569	1,431
Maintenance of Capital Facilities and Equipment	13,978,000	481,240	13,496,760
Depreciation	-	2,549,513	(2,549,513)
Total Operating Expenses	14,080,000	3,099,709	10,980,291
Operating Income (Loss)	(10,680,000)	300,291	10,980,291
Nonoperating Revenues (Expenses)			
Surplus Contributions	-	48,692	48,692
Connection Fees	125,000	290,110	165,110
Leachate Revenues	140,000	156,100	16,100
Fats, Oil & Grease Waste Fees	100,000	167,806	67,806
Enernoc Demand Response	-	-	-
Cell Tower Revenues	49,000	52,616	3,616
Other Income	10,000	10,723	723
Sale of Capital Assets	-	13,374	13,374
Grant Revenue	500,000	517,390	17,390
Investment Income (Loss)	20,000	11,936	(8,064)
Interest Expense	(131,000)	(112,581)	18,419
Debt Issuance	10,334,000	7,548,983	(2,785,017)
Digester Loan Principal	(506,000)	(518,956)	(12,956)
Less Items to Statement of Net Position	-	(7,030,027)	(7,030,027)
Total Nonoperating Revenues (Expenses)	10,641,000	1,156,166	(9,484,834)
Change in Net Position	(39,000)	1,456,457	1,495,457
Net Position - Beginning		35,395,060	
Net Position - Ending		36,851,517	

For the Fiscal Year Ended December 31, 2016		
Budget	Actual	Variance Over (Under)
\$ 3,330,000	3,330,000	-
98,000	77,199	20,801
-	15,378	(15,378)
15,000	3,605	11,395
10,385,000	315,710	10,069,290
-	2,624,572	(2,624,572)
10,498,000	3,036,464	7,461,536
(7,168,000)	293,536	7,461,536
-	142,157	142,157
50,000	67,124	17,124
117,000	166,863	49,863
-	35,818	35,818
20,000	25,112	5,112
26,000	27,179	1,179
11,000	3,995	(7,005)
-	12,365	12,365
900,000	383,000	(517,000)
17,000	6,260	(10,740)
(130,780)	(125,449)	5,331
8,000,000	-	(8,000,000)
(506,222)	(506,222)	-
-	506,222	506,222
8,503,998	744,424	(7,759,574)
<u>1,335,998</u>	<u>1,037,960</u>	<u>(298,038)</u>
	<u>34,357,100</u>	
	<u>35,395,060</u>	

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS

Schedule of Comparative Flows - Last Ten Fiscal Years December 31, 2017 (Unaudited)

Fiscal Year	Glenbard				North Regional Interceptor			
	Glen Ellyn		Lombard		Glen Ellyn		Lombard	
	Gallons (in 000's)	Percent	Gallons (in 000's)	Percent	Gallons (in 000's)	Percent	Gallons (in 000's)	Percent
2009	\$ 2,371,469	48.39%	\$ 2,529,403	51.61%	\$ 1,102,789	36.32%	\$ 1,933,862	63.68%
2010	2,150,813	47.29%	2,397,365	52.71%	923,648	33.42%	1,840,040	66.58%
2011	2,269,677	47.17%	2,542,361	52.83%	1,022,527	34.17%	1,970,275	65.83%
2012	1,958,098	47.65%	2,151,514	52.35%	861,399	34.81%	1,612,956	65.19%
2013	1,755,400	46.70%	2,003,538	53.30%	792,733	34.97%	1,474,329	65.03%
2014	1,773,595	44.61%	2,201,911	55.39%	759,050	32.07%	1,607,612	67.93%
2014*	1,163,852	45.43%	1,398,187	54.57%	N/A	N/A	N/A	N/A
2015	1,939,993	45.25%	2,347,125	54.75%	N/A	N/A	N/A	N/A
2016	1,890,348	44.39%	2,368,065	55.61%	N/A	N/A	N/A	N/A
2017	1,916,548	42.65%	2,576,590	57.35%	N/A	N/A	N/A	N/A

*For the eight months ended December 31, 2014.

N/A - The North Regional Interceptor flows are no longer used in the billing computations in the Schedule of Allocation of Costs.

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS, ILLINOIS

Schedule of Allocation Costs December 31, 2017 (Unaudited)

The agreement between the Villages of Lombard and Glen Ellyn for the purpose of jointly treating and processing wastewater requires certain information to accompany the annual financial statements. This information is from the Operating Sub-Fund. The combined data, including the Equipment Replacement and Working Cash Accounts, is part of the general purpose financial statements. Such required information for the year ended December 31, 2017, not included elsewhere in the accompanying financial statements follows:

1. Total Water Flow

Participant	Glenbard Plant	
	Gallons (in 000's)	Percent
Village of Lombard	2,576,590	57.35%
Village of Glen Ellyn	1,916,548	42.65%
	<u>4,493,138</u>	<u>100.00%</u>

2. Factors and Amounts Used in Computing Final Billing

A. Operating revenue and expenses, based on wastewater flow, were allocated among the operating facilities for the fiscal year ended December 31, 2017, as follows:

	Operating Fund
Operating Revenue	
Amounts Billed Prior to Billing Adjustments	\$ 4,181,050
Other Revenues	17,524
Adjustment	<u>(159,394)</u>
Operating Revenue Applicable to Operating Expenses	<u>4,039,180</u>
Operating Expenses	
Personnel Services	\$ 1,583,225
Contractual Services	
Maintenance	478,057
Service Charge	128,372
Sludge Removal	179,218
Utilities	645,708
Insurance	400,937
Other	198,992
Commodities	<u>424,671</u>
Total Operating Expenses	<u>4,039,180</u>

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS, ILLINOIS

Schedule of Allocation Costs – Continued
December 31, 2017 (Unaudited)

2. Factors and Amounts Used in Computing Final Billing – Continued

B. The allocation of operating expenses based on the wastewater flow of Glenbard Plant follows:

Participant	Amount	Percent
Village of Lombard	\$ 2,316,268	57.35%
Village of Glen Ellyn	1,722,912	42.65%
	<u>4,039,180</u>	<u>100.00%</u>

C. The computation of the billing adjustment for the fiscal year ended December 31, 2017 follows:

	Village of Lombard	Village of Glen Ellyn	Totals
Charges			
Total Operating Expenses (Depreciation Excluded)	\$ 2,316,268	1,722,912	4,039,180
Equipment Replacement Reserve	1,826,913	1,573,087	3,400,000
Total Operating Charges	<u>4,143,181</u>	<u>3,295,999</u>	<u>7,439,180</u>
Amount Billed	4,229,573	3,351,477	7,581,050
Plus: Credit for Other Revenues Received	10,049	7,475	17,524
Revenues Available to Offset Operating Charges	<u>4,239,622</u>	<u>3,358,952</u>	<u>7,598,574</u>
Amount Due from (to) Villages	<u>(96,441)</u>	<u>(62,953)</u>	<u>(159,394)</u>

GLENBARD WASTEWATER AUTHORITY, GLEN ELLYN, ILLINOIS, ILLINOIS

Schedule of Allocation Costs – Continued December 31, 2017 (Unaudited)

2. Factors and Amounts Used in Computing Final Billing – Continued

D. Amounts due from (to) the Village of Lombard and the Village of Glen Ellyn at December 31, 2017 are as follows:

	Village of Lombard	Village of Glen Ellyn	Totals
Amounts Due from (to) Villages			
Billing Adjustment for the Fiscal Year Ended December 31, 2017 (as shown the prior page)	\$ (96,441)	(62,953)	(159,394)
Billing Adjustments:			
July 2017 to December 2017	109,906	(109,906)	-
Miscellaneous Receivables	-	1,210	1,210
Cumulative Balance Due from (to) Villages*	13,465	(171,649)	(158,184)

*This balance is the end result of actual expenses compared to actual fiscal flow splits on an accrual basis after any necessary audit adjustments are made.

3. Total Revenue Billed and Received per Authority:

Participant	Amount Billed	Receivable (Payable) December 31, 2017	Receivable (Payable) December 31, 2016	Amount Received
Village of Lombard	\$ 4,229,573	96,441	31,281	4,164,413
Village of Glen Ellyn	3,351,477	62,953	17,411	3,305,935
	7,581,050	159,394	48,692	7,470,348

SECTION 8.0

CONTRACT APPROVAL – HVAC REHABILITATION DESIGN – ADMINISTRATION BUILDING

MEMORANDUM

TO: Executive Oversight Committee

FROM: Matt Streicher, P.E. BCEE

DATE: June 14, 2018

RE: **Request for Approval**
2018 Administration Building HVAC Rehabilitation Design



In February 2018 Authority staff developed and sent out a request for qualifications and technical proposals to our six shortlisted professional consulting firms for the 2018 Administration Building HVAC Rehabilitation Design. The due date for the proposals was April 6, 2018.

The Authorities present HVAC system/equipment consists primarily of two main air handlers (one supply, one return), an inline electric duct heater which tempers the fresh air supply and provide additional heat during colder periods, an outdoor redundant reciprocal chiller package with interior located glycol cooling coil, variable air volume's (VAV's) & electric baseboard heaters controlled by pneumatic thermostats located in each office, along with numerous exhaust fans. The existing control system is pneumatic and requires manual intervention for seasonal changes with no external alarming or control. Outside of the chiller package and duct heater, which were replaced in 1994, the remainder of the equipment has been in operation since the 1977 plant improvement. Although the HVAC system in place is not in extreme imminent danger of failing, it is beyond its predicted life and would become an emergency if it fails. This design work is proposed to be completed this calendar year in preparation for the construction work to be bid out next calendar year. Any potential incentives or grant funding related to the project shall be explored as well, as it is suspected many are available.

The Authority received two sets of qualifications and technical proposals in response to the RFQ/RFP that was sent out, at which point staff performed The Authority received two sets of qualifications and technical proposals in response to the RFQ/RFP that was sent out, at which point staff performed reviews of the proposals and selected Strand Associates, Inc. to perform the work. After the selection was made a cost proposal was submitted for \$125,000 which staff was able to negotiate down to a not to exceed price of \$99,000. Some modifications were made to the scope in order for the price to be reduced, however staff feels the essential items related to design are still incorporated.

During a TAC meeting the Village of Lombard raised concerns about the high cost of design and mentioned other routes that could be taken, such as considering the other proposal that was received, or going a different direction and utilizing an architect or HVAC contractor for design. The other proposal that was received was insufficient, and typically GWA needs to work with an

engineering consulting firm for these types of design projects due to their ability to assist with not just design, but also researching technology options, writing specifications, researching manufacturers, SCADA integration, automation, bidding requirements, and other items that we at the Authority have limited resources and staff for. After further discussion, it was still recommended to bring forward this proposal for EOC approval.

Therefore, it is recommended the EOC award Strand Associates, Inc. the 2018 Administration Building HVAC Rehabilitation Design in the amount not to exceed **\$99,000**. This amount will be taken out of the designated amount in CY2018 Approved Budget, Fund 40 580150 Plant Equipment Rehabilitation, which is currently budgeted at \$75,000.

SECTION 9.0

DECLARATION OF SURPLUS EQUIPMENT – CRYO PLANT & ASSOCIATED EQUIPMENT

MEMORANDUM

TO: Executive Oversight Committee

FROM: Matt Streicher, P.E. BCEE

DATE: June 14, 2018

RE: **Request for to Declare Surplus Equipment**
Cryogenic Plant and Associated Equipment



In April 2017 the Authority shut down it's 40-year old cryogenic generation plant. The cryogenic plant created pure oxygen from atmospheric air, which was then used to oxygenate the wastewater for the activated sludge process. In late 2016 the Authority was able to secure prices for liquid oxygen to be hauled in at a lower cost than the Authority was paying for electricity, maintenance, and operation of the cryogenic plant. Therefore, the plant was shut down properly, in order to preserve the equipment in case of future use.

The Authority has operated over a year now using the new liquid oxygen method, and no longer intends to use the cryogenic plant, as it is mostly obsolete technology. Several companies in the cryogenic market were contacted to inquire if there was any interest in the old equipment. After being told there would most likely be little interest due to the age of the plant and the type of technology, Ranch Cryogenics, a company that specializes in relocating, operating, and maintaining cryogenic plants, contacted the Authority with an interested party out of Brazil.

Although nothing has been finalized, the Authority requests the EOC declare the Cryogenic Plant and Associated Equipment as surplus equipment, which will then allow it to be sold or auctioned off to the highest bidder. The plant itself has little value remaining and would cost the Authority approximately \$250,000 to demolish if the building and area were needed for future use.

Therefore, it is recommended that the EOC declare the Cryogenic Plant and Associated Equipment as surplus, allowing the Authority to remove it from its site.

SECTION 10.0

CONTRACT APPROVAL – NEW SCADA, LAN SERVERS AND FIREWALL

MEMORANDUM

TO: Matt Streicher – Executive Director
FROM: Rick Freeman – Electrical Superintendent
DATE: June 4, 2018
RE: SCADA & LAN Systems Server Replacement



The Glenbard Wastewater Authority presently employs and is heavily dependent on the operation of two distinct computer networks/systems to accomplish its' mission, the SCADA System and the business Local Area Network (LAN).

The SCADA (Supervisory Control and Data Acquisition) System is a computerized network used to monitor and control plant processes and equipment, provide real-time and historical data, and provide local/remote alarm notification to staff. This system affords Glenbard the ability to operate the facility with manned personnel during one shift per day as opposed to the round the clock coverage which was once the normal practice prior to the SCADA System installation.

The business LAN is the other computer network used to provide typical business functionality such as e-mail, data storage, word processing, spreadsheet creation/data analysis, CMMS (Computerized Maintenance Management System), SCADA historical data archiving, WIMS & Ops Works, a wastewater process database and reporting system, web-based equipment research and purchasing, access of VGE accounting software for accounts payables, and electronic IEPA Discharge Monitoring Reports.

The major computer equipment that comprises these two distinct systems is as follows:

- **SCADA – One primary and one secondary SCADA rack mounted servers**, four local (hardwired) and four mobile client workstations, two remote client workstations, and three laptop client computers
- **Business LAN – One rack mounted server hosting five virtual servers**, ten workstations, firewall appliance, Primary & Secondary Internet connectivity, Wireless Access Point, digital backup, and numerous switches/hubs

The existing servers, last replaced in May 2012, the firewall in August 2011, are presently at the end of their serviceable life. We are recommending replacement of the existing single LAN server, Primary & Secondary SCADA servers, and firewall security appliance at this time.

Description of Work to be Performed

The implementation of replacement will be broken down into two distinct phases, that associated with the LAN Server/Firewall Appliance and that associated with the SCADA Servers, although there is heavy interdependence between systems.

LAN Server/Firewall Appliance

LAN Server

1. Provide & install new rack-mounted LAN Server (virtual host), Dell PowerEdge R740, replacing existing Dell Power Edge R710, running Windows 2016 Server as the virtualization platform. Virtualization technologies will continue to be utilized and leveraged to reduce hardware; only one physical LAN server with virtualized disks
2. Migrate all existing virtual servers into the host server. No upgrades will be performed on the existing virtual servers.
3. Bring new virtual Windows 2016 Server online and install Microsoft Remote Desktop Services with iFIX 5.9 for Remote Desktop Services (RDS), replacing the existing virtual server that provides remote access and thin client connections for SCADA viewing (outside of the Human Machine Interface (HMI) servers in the Electrical Superintendent's Office)
4. Configure the Virtual Host server for the migration of the following virtual servers:
 - a. GLEWAAPP01 – Maximo
 - b. GLEWADCFIPR01 – Domain Controller and File / Print Storage
 - c. GLEWAEX01 – Exchange Email Server
5. Bring online new virtual Windows 2016 SCADA Remote Desktop Server (replacement of GLEWATS01) with iFIX 5.9 software application for RDS
6. Provide hardware resources adequate for future creation of new VOIP Telephone System virtual server
7. Provide hardware resources adequate for future creation of new Maximo 7.6 virtual server
8. Test Virtual Host and virtual servers to ensure existing network functionality has been restored. Test local and offsite data backups (Mozy Pro & Backup Exec)
9. Update logical Microsoft Visio Diagram and provide PDF copy

Firewall

1. Provide & install new Fortinet Firewall, replacing existing Cisco ASA5510 Firewall
2. Review all existing firewall configurations and make needed changes if needed to enhance security protocols
3. Program firewall to provide the same level of access as the current device, migrate all firewall rules and remote access capabilities
4. Activate/configure Web-filtering, Antispam, and other core security services
5. Activate Industrial Security Service
6. Test firewall to ensure existing network functionality has been restored
7. Update logical Microsoft Visio Diagram and provide PDF copy

SCADA Servers

1. Provide & install new primary & secondary rack-mounted servers (SCADA 1 & 2), Dell PowerEdge R330, replacing existing Dell Power Edge R310's, running Windows 2016 Server as the virtualization platform
2. Configure new Dell PowerEdge R330 Servers with Windows 2016 Server, iFIX 5.9, and WIN-911 Pro 7.17 to new SCADA HMI servers located in the Electrical Superintendent's office
3. Migrate the existing iFIX application to the new version of iFIX (5.9) and load on the new server and SCADA client. All SCADA graphic functionality to remain as is
4. Migrate existing WIN-911 Alarming Software to new SCADA servers utilizing WIN-911 Interactive w/dual Yeastar VoIP PBX's connected to existing POTS lines. All existing alarming will remain as is
5. Migrate RS Logix 500 & 5000 and Studio 5000 PLC Programming Software
6. Migrate i-Historian & Microsoft Office Home & Business 2016 (SCADA 1)
7. Test SCADA servers to ensure existing network functionality has been restored. Test local and offsite data backups (Mozy Pro & Backup Exec)
8. Update logical Microsoft Visio Diagram and provide PDF copy

Total cost for the above listed work would be **\$58,585**. Below is a summary of costs

<u>Firewall</u>		<u>LAN/SCADA Servers</u>	
Hardware/Software	\$1,875	Hardware/Software	\$26,730
Labor	<u>\$4,830</u>	Labor	<u>\$25,150</u>
Sub Total	\$6,705	Sub Total	\$51,880

We are recommending utilizing the firm of Concentric Integration, as a sole source provider, and seeking a Waiver of Bids, in the total amount of **\$58,585**. Funds for this replacement were included in the FY-2018 Budget Fund 40-580140 **Infrastructure Improvement-SCADA & LAN Server, Firewall Replacement** line item in the amount of \$80,000.

As per the Glenbard Wastewater Authority's Guidelines for Contracting Professional Services Selection Process Part A, this is a continuing relationship engagement due to its unique nature. Furthermore, these services fall under part of the Village of Glen Ellyn's Purchasing Policy Sections C.1.e and f, which allow the waiving of competitive bidding. We have been utilizing the firm of Concentric Integration (formerly Baxter & Woodman CSI) since 2011 as our SCADA/ IT consultant and have been extremely pleased with their work history and response time on previous projects/needs. Concentric Integration possesses intimate knowledge & experience with the operation/configuration of our IT systems. Staff believes they are the firm best suited to perform this work. Prior to 2011, we struggled with finding a single firm which had the in-house expertise across the IT/SCADA technology spectrum. Concentric Integration has this unique combination of SCADA/Information Technology expertise that we require and continues to provide a great service and value to the Authority. They also provide similar services for the Downers Grove and Wheaton Sanitary Districts, NW JAWA, and numerous others; all are extremely satisfied with their work.



June 4, 2018

Mr. Rick Freeman
Electric Superintendent
Glenbard Wastewater Authority
945 Bemis Road
Glen Ellyn, IL 60137

Subject: Server Replacement Rev2

Concentric Project Number: 170931.50

Dear Mr. Freeman:

The Glenbard Wastewater Authority's (GBWW) servers are reaching the end of their useful life. They currently provide critical services such as Supervisory Control and Data Acquisition (SCADA), Virtualization, Maximo, Active Directory, Email Services, and other file-related services for GBWW. Concentric recommends GBWW consider replacing and upgrading the following physical servers:

- GLEWASC1 – Primary SCADA Server with Alarming
- GLEWASC2 – Secondary SCADA Server with Alarming
- GLEWAVS01 – Virtual Host Server

Concentric Integration proposes the following upgrade procedure:

- Replace the two (2) SCADA servers with Dell PowerEdge R330 servers running Windows 2016 Server, iFIX 5.9, and WIN-911 Interactive.
 - Migrate existing Win911 Pro V7 to new Win911 Interactive application.
- Replace the new virtual host server with a Dell PowerEdge R740 and it will run Windows 2016 Server as the virtualization platform.
- Migrate all existing virtual servers into the host server. No upgrades will be performed on the existing virtual servers.
- Bring a new virtual Windows 2016 Server online and install Microsoft Remote Desktop Services with iFIX 5.9 for Remote Desktop Services (RDS), replacing the existing virtual server that provides remote access and thin client connections for SCADA viewing (outside of the Human Machine Interface (HMI) servers in the Electrical Superintendent's Office).



The following is our Scope of Services:

Scope of Services

Equipment

Concentric will provide the following equipment:

1. Two (2) Dell PowerEdge R330 Servers (or equivalent) with the following:
 - a. One (1) Intel® Xeon® E3-1280 v5 3.7GHz, 8M cache, 4C/8T, turbo (80W) Processor
 - b. Two (2) 16GB (1x16GB) 2400MT/s DDR4 ECC UDIMM
 - c. PERC H730 Integrated RAID Controller, 1GB Cache, for Hot Plug Chassis
 - d. RAID 5, Three (3) 480GB Solid State Drive SATA Mix Use MLC 6Gbps 2.5in Hot-plug Drive, 3.5in HYB CARR, SM863
 - e. On-Board LOM 1GBE Dual Port (BCM5720 GBE LOM)
 - f. iDRAC8 Enterprise, integrated Dell Remote Access Controller, Enterprise
 - g. Dual, Hot-plug, Redundant Power Supply, 350W
 - h. 5 Year ProSupport and Mission Critical 4HR On-site Service
2. One (1) Dell PowerEdge R740 Server (or equivalent)
 - a. Two (2) Gold 6148 2.4G,20C/40T,10.4GT/s, 27M Cache, Turbo, HT (150W) DDR4 2666 processors
 - b. Two (2) 32GB RDIMM, 2666MT/s, Dual Rank
 - c. PERC H740P RAID Controller, 8GB NV Cache, Minicard
 - d. RAID 1, 2 x 200GB SSD SATA Mix Use 6Gbps 512n 2.5in Hot-plug Drive, Hawk-M4E,3 DWPD,1095 TBW - 200GB for Operating System
 - e. RAID 5, 3 x 1.2TB 10K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drives - 2.4TB for Storage
 - f. Broadcom 5720 QP 1Gb Network Daughter Card (4 ports)
 - g. Broadcom 5719 QP 1Gb Network Interface Card (4 ports)
 - h. iDRAC9 Enterprise, integrated Dell Remote Access Controller, Enterprise
 - i. Dual, Hot-plug, Redundant Power Supply (1+1), 750W
 - j. 5 Year ProSupport and Mission Critical 4HR On-site Service



Project Management

1. Plan, schedule, and coordinate the activities that must be performed to complete the Project.

Server Preparation

1. Configure the Virtual Host server for the migration of the following virtual servers:
 - a. GLEWAAPP01 - Maximo
 - b. GLEWADCFIPR01 - Domain Controller and File / Print Storage
 - c. GLEWAEX01 - Exchange Email Server
2. Bring online new virtual Windows 2016 SCADA Remote Desktop Server (replacement GLEWATS01) with iFIX 5.9 software application for RDS.
3. Configure two (2) new Dell PowerEdge R330 Servers with Windows 2016 Server, iFIX 5.9, and WIN-911 Intermedia to be new SCADA HMI servers located in the Electrical Superintendent's office.
4. Substitute two (2) Yeastar VoIP PBXs for the dialogic cards. The existing POTS lines will be connected to the PBX and the WIN-911 software would communicate via a SIP call to place phone calls, each server will have a separate copy of WIN-911 Interactive that will communicate to their dedicated PBX device.
5. Install Microsoft Office on primary SCADA server.

Programming

1. Migrate the existing iFIX application to the new version of iFIX (5.9) and load on the new server and SCADA client. All SCADA graphic functionality to remain as is.
2. Migrate existing WIN-911 Alarming Software to the new SCADA servers. All existing alarming will remain as is - it will just be upgraded to the new version.
3. Migrate PLC Programming software from backup SCADA Server to new backup SCADA Server.
4. Migrate Historian from primary SCADA server to new primary SCADA server.

Server Installation

1. Physically install Dell PowerEdge R330s and Dell PowerEdge R740 in GBWW's server/network cabinet.
2. Test with the Electrical Superintendent to ensure server functionality.



Network Diagram Update

1. Update logical Microsoft Visio diagram and provide PDF copy to the Electrical Superintendent.

Concentric Assumptions / Owner Responsibilities

1. Owner will provide site access for installation, programming, and startup during the Owner's normal business hours. Work outside of the Owner's normal business hours can be agreed upon as needed, provided Concentric can secure the site(s) upon departure.
2. Owner understands that all existing equipment to remain is assumed to be in good, working order. In the event that any other equipment does not perform as-expected, Concentric will work with the Owner to repair, as-needed, under a separate contract.
3. Owner will dispose of/recycle any removed equipment.
4. Owner understands that warranty on materials will be provided strictly by the manufacturer. No additional labor or materials warranties are provided by Concentric.
5. All existing Microsoft, GE, and Specter Licensing is under software assurance or are up to date from a licensing and maintenance perspective.

Project Schedule

Concentric is available to begin work upon notice to proceed.

Warranty

The warranty listed in the attached Standard Terms & Conditions document (Paragraph 13):

- ☐ DOES apply
☒ DOES NOT apply

Fee

Our fee for the above scope is a lump sum of \$51,880 (\$25,150 labor - \$26,730 hardware). This agreement is valid for 90 days from the date of this proposal.



Terms & Conditions

Refer to attached Standard Terms & Conditions document.

Acceptance

If this proposal is acceptable, please sign one copy and return to us. Feel free to contact me if you have any questions.

Sincerely,

CONCENTRIC INTEGRATION, LLC

Lawrence Kravets
Project Manager
LAK

Michael D. Klein, PE
Automation Department Manager
MDK

GLENBARD WASTEWATER AUTHORITY

ACCEPTED BY: _____

TITLE: _____

DATE: _____

Above signature implies acceptance of the attached **STANDARD TERMS & CONDITIONS**



Standard Terms & Conditions

1. The submitted proposal and these Standard Terms & Conditions constitute and are herein referred to as the Agreement.
2. Concentric Integration is herein referred to as Concentric, and the party with whom Concentric is entering into this Agreement with is herein referred to as Owner.
3. Concentric may submit requests for periodic progress payments for services rendered. Payments shall be due and owing by the Owner upon receipt of Concentric's invoice for services. Payments to Concentric after sixty (60) consecutive calendar days from the date of Concentric's invoice for services shall include an additional late payment charge computed Owner an annual rate of twelve percent (12%) from date of Concentric's invoice; and Concentric may, after giving seven (7) days written notice to the Owner, suspend services under this Agreement until Concentric has been paid in full all amounts due for services, expenses, and late payment charges.
4. This Agreement may be terminated, in whole or in part, by either party if the other party substantially fails to fulfill its obligations under this Agreement through no fault of the terminating party; or the Owner may terminate this Agreement, in whole or in part, for its convenience. However, no such termination may be effected unless the terminating party gives the other party: (1) not less than ten (10) calendar days written notice by certified mail of intent to terminate, and (2) an opportunity for a meeting with the terminating party before termination. If this Agreement is terminated by either party, Concentric shall be paid for services performed to the effective date of termination, including reimbursable expenses. In the event of contract termination, the Owner shall receive reproducible copies of Drawings, Custom Developed Applications and other documents completed by Concentric.
5. Concentric agrees to hold harmless and indemnify the Owner and each of its officers, agents and employees from any and all liability claims, losses, or damages, to the extent that such claims, losses, or damages are caused by Concentric's negligence in the performance of the services under this Agreement, but not including liability that may be due to the sole negligence of the Owner or other consultants, contractors or subcontractors working for the Owner, or their officers, agents and employees. In the event claims, losses, or damages are caused by the joint or concurrent negligence of Concentric and the Owner they shall be borne by each party in proportion to its negligence.
6. The Owner acknowledges that Concentric is a Limited Liability Company and not a Professional Service Corporation, and further acknowledges that the corporate entity, as the party to this contract, expressly avoids contracting for individual responsibility of its officers, directors, or employees.
7. The Owner and Concentric agree that any claim made by either party arising out of any act of the other party, or any officer, director, or employee of the other party in the execution or performance of the Agreement, shall be made solely against the other party and not individually or jointly against such officer, director, or employees.
8. For the duration of the project, Concentric shall procure and maintain insurance for protection from claims under worker's compensation acts, claims for damages because of bodily injury including personal injury, sickness or disease or death of any and all employees or of any person other than such employees, and from claims or damages because of injury to or destruction of property including loss of use resulting therefrom, alleged to arise from Concentric's negligence in the performance of services under this Agreement. The Owner shall be named as an additional insured on Concentric's general liability insurance policy. The limits of liability for the insurance required by this Subsection are as follows:

Workers Compensation:	Statutory Limits	Excess Umbrella Liability:	\$5,000,000 per claim and aggregate
General Liability:	\$1,000,000 per claim / \$2,000,000 aggregate	Professional Liability:	\$5,000,000 per claim
Automobile Liability:	\$1,000,000 combined single limit		\$5,000,000 aggregate
9. Notwithstanding any other provision of this Agreement, and to the fullest extent permitted by law, the total liability, in the aggregate, of Concentric and their officers, directors, employees, agents, and any of them, to the Owner and anyone claiming by, through or under the Owner, for any and all claims, losses, costs or damages whatsoever arising out of, resulting from or in any way related to the project or the Agreement from any cause or causes, including but not limited to the negligence, professional errors or omissions, strict liability or breach of contract or warranty expressed or implied of Concentric or their officers, directors, employees, agents or any of them, hereafter referred to as the "Owner's Claims", shall not exceed the total insurance proceeds available to pay on behalf of or to Concentric by their insurers in settlement or satisfaction of Owner's Claims under the terms and conditions of Concentric's insurance policies applicable thereto, including all covered payments made by those insurers for fees, costs and expenses of investigation, claims adjustment, defense and appeal.
10. Concentric is responsible for the quality, technical accuracy, timely completion, and coordination of all Designs, Drawings, Custom Developed Applications and other services furnished or required under this Agreement, and shall endeavor to perform such services with the same skill and judgment which can be reasonably expected from similarly situated professionals.
11. The Owner may, at any time, by written order, make changes within the general scope of this Agreement in the services to be performed by Concentric. If such changes cause an increase or decrease in Concentric's fee or time required for performance of any services under this Agreement, whether or not changed by any order, an equitable adjustment shall be made and this agreement shall be modified in writing accordingly. No service for which an additional compensation will be charged by Concentric shall be furnished without the written authorization of the Owner.
12. All Drawings, Custom Developed Applications, and other documents prepared or furnished by Concentric pursuant to this Agreement are instruments of service in respect to the project, and Concentric shall retain the right of reuse of said documents and electronic media by and at the discretion of Concentric whether or not the project is completed. Electronic copies of Concentric's documents for information and reference in connection with the use and occupancy of the project by the Owner and others shall be delivered to and become the property of the Owner; however, Concentric's documents are not intended or represented to be suitable for reuse by the Owner or others on additions or extensions of the project, or on any other project. Any such reuse without verification or adaptation by Concentric for the specific purpose intended will be at the Owner's sole risk and without liability or legal exposure to Concentric, and the Owner shall indemnify and hold harmless Concentric from all claims, damages, losses and expenses including attorneys' fees arising out of or resulting therefrom.
13. Concentric warrants that the services provided for under this Agreement will be completed in a good and workmanlike manner in accordance with applicable codes, ordinances, regulations or other legal Owner. For a period of one (1) year after the Owner receives beneficial use of the installation, Concentric will provide a limited warranty to the Owner for any defect due to improper materials or workmanship supplied by Concentric. Any such warranty provided to Owner shall be provided by Concentric without expense to the Owner for the one (1) year period described herein. **CONCENTRIC'S WARRANTY IS A LIMITED WARRANTY FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF BENEFICIAL USE OF THE INSTALLATION.** This warranty is limited to only defects in material and workmanship on products purchased and fully installed by Concentric and excludes defects caused by improper use, abuse, accident, acts-of-God (including but not limited to lightning), alteration, or other conditions beyond Concentric's control, as determined by Concentric, and all manufacturer's products or workmanship as covered by their respective warranties. For manufacturer's products or workmanship, Concentric will deliver to Owner all manufacturers' warranties of products. **IN CONSIDERATION OF THE LIMITED WARRANTY CONTAINED HEREIN THE OWNER AGREES AND ACKNOWLEDGES THAT SUCH WARRANTY REPLACES ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** Concentric's warranty is limited to repair or replacement of a defective product without cost to the Owner. **OWNER WAIVES ALL CLAIMS TO INCIDENTAL OR CONSEQUENTIAL DAMAGES.** This limited warranty extends only to the Owner and not to subsequent buyers/owners. Owner must give written notice of a defect within the one (1) year warranty period described above. In the event of any dispute between the Owner and Concentric, such dispute shall be resolved in accordance with these Standard Terms & Conditions and the Agreement.
14. Any provision or part thereof of this Agreement held to be void or unenforceable under any law shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the parties. The parties agree that this Agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision which comes as close as possible to expressing the intention of the stricken provision.
15. This Agreement contains and embodies the entire and integrated agreement between parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral.



May 23, 2018

Mr. Rick Freeman
Electric Superintendent
Glenbard Wastewater Authority
945 Bemis Road
Glen Ellyn, IL 60137

Subject: Firewall Replacement Rev 2

Concentric Project Number: 170989.50

Dear Mr. Freeman:

The Glenbard Wastewater Authority (GBWW) has an aging Cisco ASA5510 firewall that has served the Authority well, but will no longer be supported by the manufacturer at the end of 2018. Concentric Integration recommends replacing the firewall with a Fortinet FortiGate 80E Network Security/Firewall Appliance with the Enterprise Protection Bundle. The Enterprise Protection bundle includes NGFW Application Control and IPS, Web Filtering, FortiCloud Sandbox, Antivirus, Mobile Security, IP Reputation & Antibotnet, Antispam, and core FortiCare security services.

Under this proposal, Concentric will provide the new firewall equipment and install it for GBWW. The following is our Scope of Services:

Scope of Services

Equipment Description

- One (1) Fortinet FortiGate 80E Network Security/Firewall Appliance with the Enterprise Protection Bundle
- One (1) FortiGate-80E FortiGuard Industrial Security Service
- 1 Year 24x7x4 hour support bundle

Project Management

1. Plan, schedule, and coordinate the activities that must be performed to complete the Project.



Firewall Preparation

1. Program the Fortinet firewall to provide the same level of access as the current Cisco 5510, migrating all firewall rules and remote access capabilities.
2. Review existing firewall configurations and make additional changes, if needed, to enhance security protocols.

Firewall Installation

1. Physically install Fortinet in GBWW's server/network cabinet.
2. Test with the Electrical Superintendent to ensure existing network functionality has been restored.
3. Activate Webfiltering, Antispam, and other core security services.
4. Activate Industrial Security Service.

Network Diagram Update

1. Update logical Microsoft Visio diagram and provide PDF copy to the Electrical Superintendent.

Concentric Assumptions / Owner Responsibilities

1. Owner will provide site access for installation, programming, and startup during the Owner's normal business hours. Work outside of normal business hours can be agreed upon as needed, provided Concentric can secure the site(s) upon departure.
2. Owner understands that all existing equipment to remain is assumed to be in good, working order. In the event that any other equipment does not perform as-expected, Concentric will work with the Owner to repair, as-needed, under a separate contract.
3. Owner will dispose of/recycle any removed equipment.
4. Owner understands that warranty on materials will be provided strictly by the manufacturer. No additional labor or materials warranties are provided by Concentric.

Annual Support

This project will add additional hardware and software to the Owner, some of which has support or maintenance associated with it. Concentric recommends the Owner maintain any



applicable support agreements once the initial support/warranty periods expire. On this project, we have included the following support agreements, that all begin approximately at the date the product is shipped (not necessarily the date it is onsite) and last for periods varying from one year to three years.

Following is the recommended support and estimated amounts for renewals each year (this is provided solely for budgetary purposes and will need to be quoted at the time of renewal):

Description	2018	2019	2020
Fortinet FortiCare 24x7 Bundle - 1 Year Extended Service	Included	\$1,200	\$1,300
FortiGate-80E FortiGuard Industrial Security Service	Included	\$210	\$220
<i>Total</i>	<i>\$0</i>	<i>\$1,210</i>	<i>\$1,520</i>

Project Schedule

Concentric is available to begin work upon notice to proceed.

Warranty

The warranty listed in the attached Standard Terms & Conditions document (Paragraph 13):

- ☐ DOES apply
- ☒ DOES NOT apply

Fee

Our fee for the above scope is a lump sum of \$6,705 (\$4,830 labor - \$1,875 hardware). This agreement is valid for 90 days from the date of this proposal.

Terms & Conditions

Refer to attached Standard Terms & Conditions document.



Acceptance

If this proposal is acceptable, please sign one copy and return to us. Feel free to contact me if you have any questions.

Sincerely,

CONCENTRIC INTEGRATION, LLC

Lawrence Kravets
Project Manager
LAK

Michael D. Klein, PE
Automation Department Manager
MDK

GLENBARD WASTEWATER AUTHORITY

ACCEPTED BY: _____

TITLE: _____

DATE: _____

Above signature implies acceptance of the attached STANDARD TERMS & CONDITIONS.



Standard Terms & Conditions

1. The submitted proposal and these Standard Terms & Conditions constitute and are herein referred to as the Agreement.
2. Concentric Integration is herein referred to as Concentric, and the party with whom Concentric is entering into this Agreement with is herein referred to as Owner.
3. Concentric may submit requests for periodic progress payments for services rendered. Payments shall be due and owing by the Owner upon receipt of Concentric's invoice for services. Payments to Concentric after sixty (60) consecutive calendar days from the date of Concentric's invoice for services shall include an additional late payment charge computed Owner an annual rate of twelve percent (12%) from date of Concentric's invoice; and Concentric may, after giving seven (7) days written notice to the Owner, suspend services under this Agreement until Concentric has been paid in full all amounts due for services, expenses, and late payment charges.
4. This Agreement may be terminated, in whole or in part, by either party if the other party substantially fails to fulfill its obligations under this Agreement through no fault of the terminating party; or the Owner may terminate this Agreement, in whole or in part, for its convenience. However, no such termination may be effected unless the terminating party gives the other party: (1) not less than ten (10) calendar days written notice by certified mail of intent to terminate, and (2) an opportunity for a meeting with the terminating party before termination. If this Agreement is terminated by either party, Concentric shall be paid for services performed to the effective date of termination, including reimbursable expenses. In the event of contract termination, the Owner shall receive reproducible copies of Drawings, Custom Developed Applications and other documents completed by Concentric.
5. Concentric agrees to hold harmless and indemnify the Owner and each of its officers, agents and employees from any and all liability claims, losses, or damages, to the extent that such claims, losses, or damages are caused by Concentric's negligence in the performance of the services under this Agreement, but not including liability that may be due to the sole negligence of the Owner or other consultants, contractors or subcontractors working for the Owner, or their officers, agents and employees. In the event claims, losses, or damages are caused by the joint or concurrent negligence of Concentric and the Owner they shall be borne by each party in proportion to its negligence.
6. The Owner acknowledges that Concentric is a Limited Liability Company and not a Professional Service Corporation, and further acknowledges that the corporate entity, as the party to this contract, expressly avoids contracting for individual responsibility of its officers, directors, or employees.
7. The Owner and Concentric agree that any claim made by either party arising out of any act of the other party, or any officer, director, or employee of the other party in the execution or performance of the Agreement, shall be made solely against the other party and not individually or jointly against such officer, director, or employees.
8. For the duration of the project, Concentric shall procure and maintain insurance for protection from claims under worker's compensation acts, claims for damages because of bodily injury including personal injury, sickness or disease or death of any and all employees or of any person other than such employees, and from claims or damages because of injury to or destruction of property including loss of use resulting therefrom, alleged to arise from Concentric's negligence in the performance of services under this Agreement. The Owner shall be named as an additional insured on Concentric's general liability insurance policy. The limits of liability for the insurance required by this Subsection are as follows:

Workers Compensation:	Statutory Limits	Excess Umbrella Liability:	\$5,000,000 per claim and aggregate
General Liability:	\$1,000,000 per claim / \$2,000,000 aggregate	Professional Liability:	\$5,000,000 per claim
Automobile Liability:	\$1,000,000 combined single limit		\$5,000,000 aggregate
9. Notwithstanding any other provision of this Agreement, and to the fullest extent permitted by law, the total liability, in the aggregate, of Concentric and their officers, directors, employees, agents, and any of them, to the Owner and anyone claiming by, through or under the Owner, for any and all claims, losses, costs or damages whatsoever arising out of, resulting from or in any way related to the project or the Agreement from any cause or causes, including but not limited to the negligence, professional errors or omissions, strict liability or breach of contract or warranty expressed or implied of Concentric or their officers, directors, employees, agents or any of them, hereafter referred to as the "Owner's Claims", shall not exceed the total insurance proceeds available to pay on behalf of or to Concentric by their insurers in settlement or satisfaction of Owner's Claims under the terms and conditions of Concentric's insurance policies applicable thereto, including all covered payments made by those insurers for fees, costs and expenses of investigation, claims adjustment, defense and appeal.
10. Concentric is responsible for the quality, technical accuracy, timely completion, and coordination of all Designs, Drawings, Custom Developed Applications and other services furnished or required under this Agreement, and shall endeavor to perform such services with the same skill and judgment which can be reasonably expected from similarly situated professionals.
11. The Owner may, at any time, by written order, make changes within the general scope of this Agreement in the services to be performed by Concentric. If such changes cause an increase or decrease in Concentric's fee or time required for performance of any services under this Agreement, whether or not changed by any order, an equitable adjustment shall be made and this agreement shall be modified in writing accordingly. No service for which an additional compensation will be charged by Concentric shall be furnished without the written authorization of the Owner.
12. All Drawings, Custom Developed Applications, and other documents prepared or furnished by Concentric pursuant to this Agreement are instruments of service in respect to the project, and Concentric shall retain the right of reuse of said documents and electronic media by and at the discretion of Concentric whether or not the project is completed. Electronic copies of Concentric's documents for information and reference in connection with the use and occupancy of the project by the Owner and others shall be delivered to and become the property of the Owner; however, Concentric's documents are not intended or represented to be suitable for reuse by the Owner or others on additions or extensions of the project, or on any other project. Any such reuse without verification or adaptation by Concentric for the specific purpose intended will be at the Owner's sole risk and without liability or legal exposure to Concentric, and the Owner shall indemnify and hold harmless Concentric from all claims, damages, losses and expenses including attorneys' fees arising out of or resulting therefrom.
13. Concentric warrants that the services provided for under this Agreement will be completed in a good and workmanlike manner in accordance with applicable codes, ordinances, regulations or other legal Owner. For a period of one (1) year after the Owner receives beneficial use of the installation, Concentric will provide a limited warranty to the Owner for any defect due to improper materials or workmanship supplied by Concentric. Any such warranty provided to Owner shall be provided by Concentric without expense to the Owner for the one (1) year period described herein. **CONCENTRIC'S WARRANTY IS A LIMITED WARRANTY FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF BENEFICIAL USE OF THE INSTALLATION.** This warranty is limited to only defects in material and workmanship on products purchased and fully installed by Concentric and excludes defects caused by improper use, abuse, accident, acts-of-God (including but not limited to lightning), alteration, or other conditions beyond Concentric's control, as determined by Concentric, and all manufacturer's products or workmanship as covered by their respective warranties. For manufacturer's products or workmanship, Concentric will deliver to Owner all manufacturers' warranties of products. **IN CONSIDERATION OF THE LIMITED WARRANTY CONTAINED HEREIN THE OWNER AGREES AND ACKNOWLEDGES THAT SUCH WARRANTY REPLACES ALL OTHER WARRANTIES EITHER EXPRESS OR IMPLIED INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** Concentric's warranty is limited to repair or replacement of a defective product without cost to the Owner. **OWNER WAIVES ALL CLAIMS TO INCIDENTAL OR CONSEQUENTIAL DAMAGES.** This limited warranty extends only to the Owner and not to subsequent buyers/owners. Owner must give written notice of a defect within the one (1) year warranty period described above. In the event of any dispute between the Owner and Concentric, such dispute shall be resolved in accordance with these Standard Terms & Conditions and the Agreement.
14. Any provision or part thereof of this Agreement held to be void or unenforceable under any law shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the parties. The parties agree that this Agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision which comes as close as possible to expressing the intention of the stricken provision.
15. This Agreement contains and embodies the entire and integrated agreement between parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral.

SECTION 11.0

FORMALIZE TECHNICAL ADVISORY COMMITTEE RESOLUTION

MEMORANDUM

TO: Executive Oversight Committee

FROM: Matt Streicher, P.E. BCEE

DATE: June 14, 2018

RE: **Formalize Resolution Establishing the Technical Advisory Committee**



The Technical Advisory Committee (TAC) was formed based off a request made by the Village Managers in order to provide recommendations to the Executive Oversight Committee on matters pertaining to projects, budgets, operations and other duties assigned by the Executive Oversight Committee. The TAC consists of three members; the Directors of Public Works from each Village and the Executive Director of the Authority and meets on a monthly basis or more frequently as required.

Due to the TAC's role in recommending items being brought forward to the EOC, the Authority's legal consul recommended formalizing a resolution establishing the TAC. Therefore, attached is a formal resolution prepared by the TAC, and reviewed by the Authority's legal consul.

It is recommended the EOC adopt the resolution formalizing the TAC to make recommendations to the EOC on the operations of GWA.

GLENBARD WASTEWATER AUTHORITY
Executive Oversight Committee

RESOLUTION NO. 001-18

**A RESOLUTION ESTABLISHING THE TECHNICAL ADVISOR COMMITTEE TO
MAKE RECOMMENDATIONS TO THE EXECUTIVE OVERSIGHT COMMITTEE
ON THE OPERATIONS OF THE GLENBARD WASTEWATER AUTHORITY**

BE IT RESOLVED BY THE EXECUTIVE OVERSIGHT COMMITTEE OF
THE GLENBARD WASTEWATER AUTHORITY as follows:

SECTION 1: The Villages of Glen Ellyn and Lombard (The “Villages”) have entered into an intergovernmental agreement in regard to the establishment and operation of the Glenbard Wastewater Authority (“Authority”) for the purpose of providing safe and efficient wastewater treatment to the properties located within the Authority’s Facility Planning Area (FPA) established by the Illinois Environmental Protection Agency.

SECTION 2: Pursuant to the intergovernmental agreement, day-to-day management of the Authority is conducted by its Executive Director who reports to the Executive Oversight Committee of the Authority (“EOC”).

SECTION 3: The EOC has determined that additional oversight, review and consideration of the plans, operations and activities of the Authority would be in the best interest of the Villages and that said oversight should be conducted through the establishment of a Technical Advisory Committee that reports to the EOC.

The following criteria shall apply to the Technical Advisory Committee (“TAC”):

A. **Membership:** The TAC shall consist of three (3) members: the Directors of Public Works of the Villages and the Executive Director of the Authority.

B. **Chairperson/Vice-Chairperson:** The Chairperson of the TAC shall be the Executive Director of the Authority.

C. **Responsibilities:** The TAC shall provide recommendations to the EOC on matters pertaining to the Authority’s projects, budgets, and operations, as well as other duties assigned by the EOC. The TAC shall be responsible for making recommendations to the EOC regarding retention of consultants for Authority projects or on-going operations. Neither the TAC nor the Executive Director may independently engage or appoint a consulting firm for an Authority project or its “short list” of approved firms.

D. **Meetings:** The Technical Advisory Committee shall meet on a monthly basis or more frequently as determined by the Executive Director of the Authority.

SECTION 4: This Resolution shall be in full force and effect from and after its adoption and approval as required by law.

Adopted this _____ day of _____, 2018.

Ayes: _____

Nays: _____

Absent: _____

Approved this _____ day of _____, 2018.

Keith Giagnorio
Executive Oversight Committee

Chairperson

ATTEST:

Gayle Lendabarker
Secretary to EOC

SECTION 12.0

DISCUSSION

SECTION 12.1

FACILITY IMPROVEMENT PROJECT

FIP Project Update

- Work Completed Since Last EOC Meeting
 - Landscape Restoration
 - Pavement Restoration
 - Concrete/Site Restoration
 - Hypochlorite Tank Installations
 - Filter Building Cleanup/Loose Ends
 - ERS Digging
 - 259 Submittals
 - 46 Requests for Information
 - Released Payments Through #8 (of 10) = \$1,521,821.86.
 - Still holding \$726,709.22 (+ \$875,028.68 Retention)
- Work Anticipated Prior to Next EOC Meeting
 - Filter Building Finishing Continuation
 - ERS Progress





FIP Tracking



Days Remaining Until Final Completion (11/19/2019): 523

FIP GWA RE Tracking

■ GWA RE Hours — GWA RE Hours To Date

500.00

450.00

400.00

350.00

300.00

250.00

200.00

150.00

100.00

50.00

0.00

Sep-16

Oct-16

Nov-16

Dec-16

Jan-17

Feb-17

Mar-17

Apr-17

May-17

Jun-17

Jul-17

Aug-17

Sep-17

Oct-17

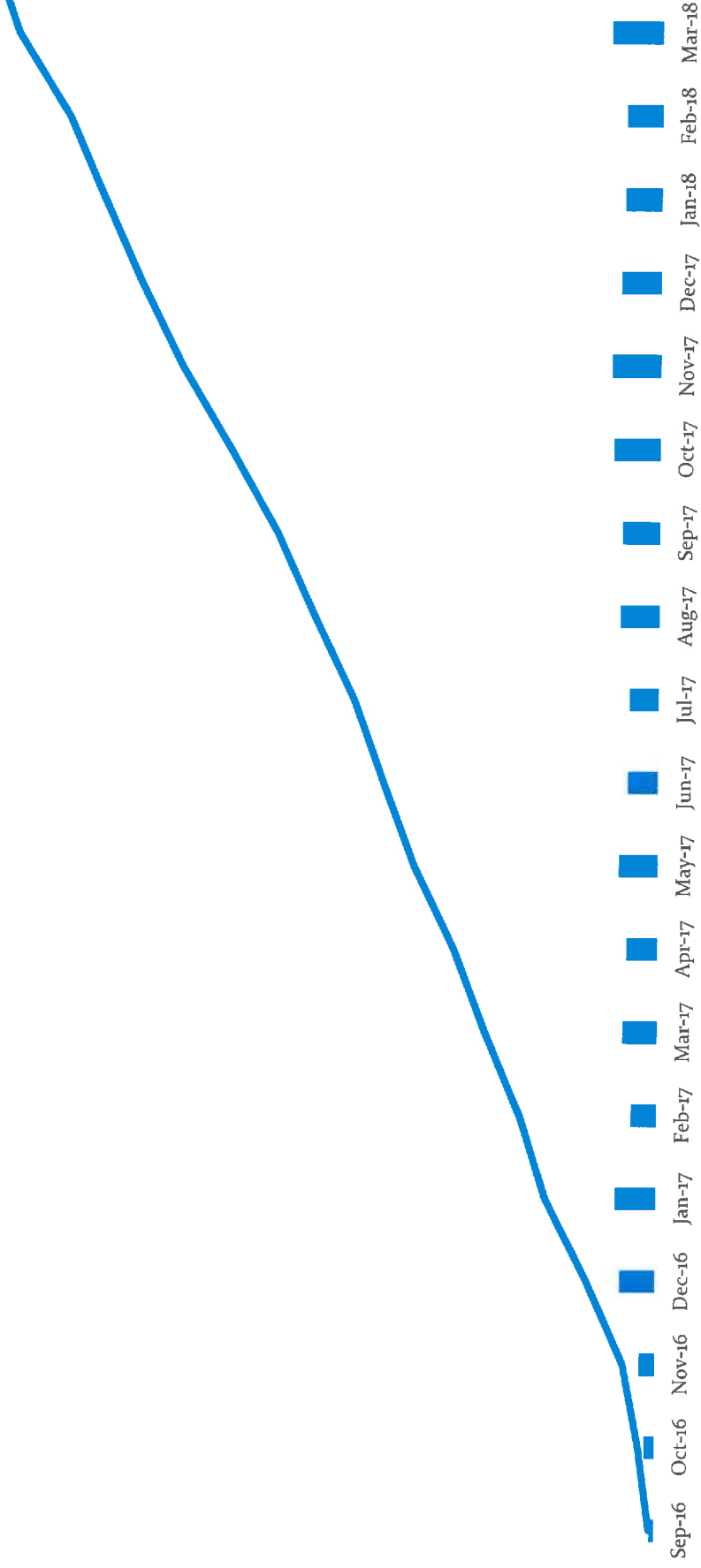
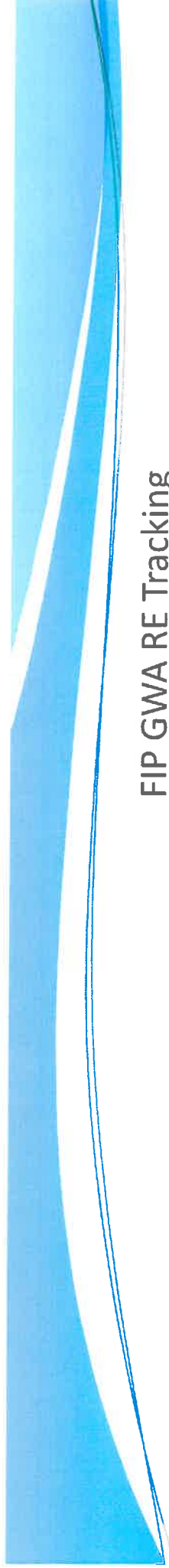
Nov-17

Dec-17

Jan-18

Feb-18

Mar-18



SECTION 12.2

PRETREATMENT ORDINANCE STATUS

SECTION 12.3

PERSONNEL UPDATE

SECTION 13.0

OTHER BUSINESS

SECTION 13.1

TECHNICAL ADVISORY COMMITTEE UPDATES



Glenbard Wastewater Authority

945 Bemis Road Glen Ellyn, Illinois 60137
Telephone: 630-790-1901 – Fax: 630-858-8119

GWA Technical Advisory Committee (TAC) Meeting Agenda April 19, 2018 9:30 am

1. FIP Update

a. Filter Construction Update

Mr. Streicher informed the TAC that the East side filters have been operational since just prior to the April 1 deadline, and that their performance has been satisfactory. Mr. Streicher also informed the TAC that during high flow it seems apparent that all 6 of the new filters cannot handle peak flows, and that the existing bypass channel that was scheduled to be demolished will need to remain. While we may see a small credit from the contractor for the elimination of the demolition, we do need to relocate a gate valve that controls the flow through the channel. There will be more to follow on this item as GWA discusses it with the Engineer and Contractor.

b. Change Order No. 4 Update

i. Cost Reductions

1. Transformer Sequencing Work (\$187k down to \$155.5k) - Revisions Continue
No updates
2. Filter Building Lighting Conduit (\$25.4k down to \$21.5k) - Revisions Continue
No updates
3. MCC Revisions (\$27.5k down to \$18k) – Revisions Continue
No updates

c. ERS Submittals

The ERS has been submitted and approved, and the contractor has begun preliminary work. While the schedule stated the work was to start by mid-April, Mr. Streicher expects it to actually start closer to June.

d. Construction Engineering Contract

Mr. Streicher wanted to make the TAC aware that out of the original \$706k contract with the Engineer (Black & Veatch), only about \$100k remains, and construction is expected to last another 18 months. GWA will most likely need an amendment to the construction engineering contract, however it will attempt to use all remaining funds first and get a better estimate of what will be remaining.

2. Grease Trap Improvement Grant Discussion (Frieders)

The Village of Lombard had brought forth an idea that GWA would set aside funds to offer to establishments that needed improvements on their grease traps in order to bring them up to code. While the TAC applauded this effort, both Villages agreed the funding would not be able to come from GWA, as they have no funding mechanisms in place – or to be able to put in place. This is more of a Village issue that each PW Director will have to look into further.

3. Admin Building HVAC RFQ/RFP – May EOC Award

Mr. Streicher advised the TAC that staff was reviewing the two proposals submitted and would be ready to recommend an award at the May EOC meeting. The TAC declined to review the submittals themselves but agreed that GWA would select an appropriate firm.

4. Formalize TAC Resolution by EOC per legal recommendation

Mr. Streicher informed the TAC that GWA's legal counsel recommended that the EOC formally adopt a policy recognizing what role the TAC plays within GWA. Director Goldsmith stated that the Village of Lombard may have similar policies in place that he could share with GWA to use as a template. This is not a priority project but will be worked on over time in order to bring a formal policy to the EOC.

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5. Other Business

a. Televising Contract

GWA participated in the Village of Lombard's RFP process that is due at the end of April. Results will be reported upon at a later date.

b. Vacant Positions

i. Project Engineer

Mr. Streicher informed the TAC a background check was being run on the last candidate interviewed. Based on results of the check an offer will be made to the leading candidate interviewed. Mr. Streicher is to discuss the terms of the offer with the Village Manager and HR Staff.

ii. Maintenance I

The application period for this position ends April 27.

c. Process to remove Hexa-something or another-chromium from Pre-Treatment Ordinance (Frieders)

ERC Frieders informed the TAC that GWA would like to remove one of the local limit standards from the pre-treatment ordinance since it is never present and can cost industries unnecessary money to sample for. Ms. Frieders advised that she will inquire with the USEPA to make sure they approve prior to the Village's adopting any pre-treatment ordinance.

6. Old Business

a. Facility Plan Project

This project is still yet to kick off

b. Digester Cleaning Update

The contractor completed the work the last week of March, and the project ended up over budget due to excess amount of material than what was expected.

c. Electrical Grid Project

This project had a kickoff meeting April 17 and design is expected to completed in November 2018

d. Pretreatment Ordinance Status

Ms. Frieders indicated that the ordinance was still under review at USEPA

e. Forest Preserve County of DuPage Easement Leases

Director Goldsmith indicated that the easement purchase for the lagoon property at CSO is completed, and that he would forward on the recorded documents to GWA for their records. Director Hansen had no update to the progress of the easement for the NRI along St. Charles Road/Churchill woods.

f. Phone System

Mr. Streicher expects the phone system to go to the EOC in either May or June.

g. Demand Load Response Program

Mr. Streicher informed the TAC that the equipment needed to comply with the IEPA Tier 4 air emissions has been installed, and the generators are ready for the program.

h. High Strength Waste Progress

Mr. Streicher and Ms. Frieders updated the TAC that no waste has been accepted to date, but conversations continue with haulers. At this point in time, while GWA is seeking haulers to come in, they are not doing so aggressively due to staff absences. The goal will be to have the first delivery no later than the first week in May.

i. CSO Vandalism

Mr. Streicher informed the TAC that Electrical Superintendent Freeman has been in contact with the Village of Lombard Police Department to relay on costs associated with the vandalism damages. Mr. Streicher is inquiring with the Village of Glen Ellyn's Finance department on how to properly follow the purchasing policy to replace the equipment due to vandalism.

j. Discussion pertaining to future development of IGA Language for

GWA Interceptor vs Village's Collection Systems start and stop points.

i. VGE – Chidester vs St. Charles Rd. Lift Station

ii. VOL – L22 vs Junction Chamber

iii. CSO Regulators and lines between the regulators to the facility

iv. Any others that can be added



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No Updates. Mr. Streicher met with the Village of Lombard's GIS Technician, and Director Goldsmith believes maps have been created, but will need to follow up. Mr. Streicher and Director Hansen confirmed that the Village will be inspecting the West Glen Ellyn Interceptor.



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GWA Technical Advisory Committee (TAC) Meeting Agenda

May 17, 2018

Meeting Start Time: 934am

1. FIP Update

a. Change Order No. 4 Update

i. Cost Reductions

1. Transformer Sequencing Work (\$187k down to \$155.5k)
2. Filter Building Lighting Conduit (\$25.4k down to \$21.5k) - Revisions Continue
3. MCC Revisions (\$27.5k down to \$18k)

Mr. Streicher informed the TAC that final prices were agreed upon for the Transformer Sequencing change and the MCC revisions for a total price reduction of around \$41,000, bringing the prices for those two items down from a total of \$215,000 to \$183,000. Since the EOC approved a total not to exceed amount for a number of changes, Mr. Streicher had the authority to sign a "Change Order 004.1" which included those items along with some other items that the prices were not changed, in order to take advantage of the price reductions before the offers expired. This information was run past the Authority's attorney and was advised to take it before any prices escalated further. The Authority is still waiting on the final pricing for the filter building lighting conduit, along with RFB 011B (MCC Revisions part 2), and then Mr. Streicher will have the authority to sign a "Change Order 004.2" that will include the remaining items the EOC has already approved a not to exceed amount for.

b. ERS Progress

Mr. Streicher informed the TAC that none of the ERS work has physically begun, but items are being fabricated, so it appears that it will start in the next couple of weeks. The schedule the contractor has laid out has them completing the work on time, providing they stick to the schedule.

2. New Sludge Hauling Update

Mr. Streicher informed the TAC that beginning May 1, 2018 the Authority's new biosolids contract that the EOC approved took effect. Therefore, Synagro will now be hauling sludge out of the facility daily. Since sludge had been stockpiled over the winter, and there was no daily hauling, it had been contemplated to notify adjacent residents of the increased truck traffic, however since they had already been notified in the past that GWA would haul daily when we had the ability to, it was decided to not bring further attention to it. Director Goldsmith suggested at least posting something on the website, to which Mr. Streicher took consideration to, but did not feel necessary since it is posted to some measure.

3. Professional Services – SCADA & LAN Server Replacement (Rick Freeman)

Mr. Streicher informed the TAC that Superintendent Freeman was beginning to gather proposals for the new SCADA and LAN servers that are scheduled to be replaced this year. Due to the unique nature of the combination of SCADA and IT work, the Authority intends to utilize the professional services policy and solely select Concentric Integration (formally B&W CSI) for this work. Director Goldsmith agreed that this work is highly technical in nature, and that the Village of Lombard also does not go through the RFP process for this, and instead uses a single professional service. The TAC was in agreement with the Authority's approach. Mr. Streicher informed the TAC that when formal proposals are received, they will be brought to the TAC prior to going to the EOC.

4. Cryogenic Plant Scrapping

Since shutting down the cryogenic plant in April 2017, GWA has sent out requests to companies involved in the cryogenic business to see if there is any interest, to which there had been none up until recently. The

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companies we had contacted said that there likely would be little interest, as our cryogenic plant is old, and somewhat obsolete considering the newer technology out there. Recently Ranch Cryogenics, one of the companies we had contacted and worked with in the past, contacted us with an interested customer from Brazil. The plant fits the needs they have, and would be ideal for their situation, providing the price is right. Although no offer has been made at this time, it was stated that they would remove the cryogenic plant from our facility and make the building/grounds suitable for future use at no cost to us – if we provide the cryogenic plant to them at no cost. Mr. Streicher felt this was a good opportunity, as the chances of somebody else even taking the plant, let alone purchasing it, were not likely. If the plant were to remain in place until the building/grounds were needed for future uses, the cost to demolish it would be the burden of the Authority – and likely significant. The TAC was in general agreement with the approach, however they did feel the EOC would need to declare the equipment a surplus and would make the final decision on whether or not it should go to public auction in order to avoid any perception of perforation. The TAC also suggested Mr. Streicher obtain a rough cost to demolish the plant in order to demonstrate the Authority would benefit by giving the plant away in exchange for removing it from the site for free.

5. Admin Building HVAC RFQ/RFP – Contract Negotiations

Mr. Streicher informed the TAC that after the RFQ/RFP process, Strand Associates was the selected firm for this design work. After notifying them of our selection, a cost proposal was provided in the amount of \$125,000. Mr. Streicher informed the TAC that only \$75,000 was budgeted for this design work, and that Strand stated there were several factors leading to the increase in cost; they included expanded investigations into different types of technology and what would be most suitable/feasible at GWA, and they also included a structural evaluation/analysis if a separate rooftop unit would be included for the laboratory HVAC. The TAC felt this cost proposal was too high for this scope of work. Director Goldsmith stated that Lombard had an architect design an entire building, HVAC included, at a much lower cost. The TAC suggested GWA send out RFP's to HVAC contractors that may be able to come up with a design, as well as construction, all at lower cost. Mr. Streicher had concerns about this, as there are some unique challenges with HVAC at our facility, although he did agree that more firms than the ones on GWA's shortlist are qualified to do such work. The TAC also asked if this work could be tabled to a further date, to which Mr. Streicher believed it could, but would have to double check with Superintendent Freeman. It was agreed that this approach would be discussed at a later date, and that GWA would not move forward with Strand's proposal.

6. Other Business

a. Televising Contract

Mr. Streicher asked Director Goldsmith if they had attempted to send the results of the Televising RFP that GWA and Lombard combined on. Mr. Goldsmith was able to send the information over during the TAC meeting. Mr. Streicher informed the TAC that this item would be brought forward to the June EOC meeting.

b. IEPA Annual Inspection – June 7, 2018

Mr. Streicher informed the TAC that our annual IEPA inspection would be occurring. The TAC asked if GWA receives any sort of "report card," to which Mr. Streicher was unsure of. Mr. Streicher believes that the IEPA inspector simply relays onto her superiors that GWA is satisfactory.

c. Roof Replacements

Mr. Streicher informed the TAC that we had engaged in design and specification work for the replacement of two roofs that were budgeted for and are in need of replacement. Quotes had been requested for the design/bidding assistance, whereas typically a company called Illinois Roofing Consultants Associates had been used, Superintendent Braga found a similar company for a better price – and that is more local. The company has laid out a schedule for the work to be bid and is currently working on design and specifications for the work. It's estimated that the cost of the work will be around \$80,000.

d. Vacant Positions

i. Assistant Director/Engineer

Mr. Streicher informed the TAC that the new advertisement for the position was posted late last week/early this week, and that we had already received one applicant. Mr. Streicher brought Director Goldsmith up to speed on what had occurred with the original "Project Engineer" position, and how it's developed to now be an Assistant



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Director/Engineer position. The TAC advised Mr. Streicher to include this update on the next EOC packet, to which he replied he already has.

ii. Maintenance I

Mr. Streicher informed the TAC that GWA was starting interviews for this position today and would be continuing with first round interviews tomorrow. The hopes were to narrow it down to 1-3 candidates to bring in for second interviews.

- e. *Not on the agenda – Mr. Streicher informed the TAC of a new USEPA regulation he recently learned of while at an IAWA conference involving hauled wastes to our facility. USEPA will now be mandating that we send manifests for each delivery of hauled waste to our facility, and that a \$4-\$20 fee be associated with each manifest sent. This was slipped in under the radar and is of concern to many facilities since it includes leachate, and possibly even FOG. GWA takes several loads of leachate a day and has also recently started taking in FOG and other high strength wastes. IAWA appears to be forming a group to protest this decision, or at least modify it not to include leachate, however nothing may be able to be done prior to the June 2018 beginning of enforcement. Mr. Streicher is going to continue to work with IAWA and other WWTP's to make sure GWA fulfills its requirements.*
- f. *Not on the agenda – Director Hansen had done some exploring around the GWA property boundaries and noticed some areas could use some landscape cleanup; overgrown buckthorn removal, dead tree removal, etc. Mr. Streicher had not walked the area yet, but indicated he would, and would budget appropriately to address the areas next year. Director Goldsmith had asked if we had received any complaints, which GWA has not, so he advised to be weary on how much is removed – we do not want to clear the area too much, but agreed we should remove any hazards such as dead trees that have the potential to fall.*
- g. *Not on the agenda – Mr. Streicher informed the TAC that the Glen Oak Lift Station Flow Meter is scheduled to begin installation the week of 5/28.*

7. Old Business

- a. *Formalize TAC Resolution by EOC per legal recommendation*
Director Goldsmith had prepared a draft resolution to bring to the EOC for approval. The TAC was in agreement with the format and content. Directors Goldsmith and Hansen stated they would send the draft to their respective Village Managers for review and instructed Mr. Streicher to share the draft with GWA's legal counsel for comments.
- b. *Pretreatment Ordinance Status*
The ordinance is still under review by the USEPA
- c. *Forest Preserve County of DuPage Easement Leases*
Director Hansen stated that the Village of Glen Ellyn received survey information back regarding the interceptor located on St. Charles Road/Churchill woods, and that Village Engineers were reviewing it. When review was complete, Glen Ellyn would share the survey information with the Forest Preserve in order to begin moving the process forward.
- d. *Phone System*
Mr. Streicher informed the TAC that Superintendent Freeman has tabled this item for a short period time since much had been put on his plate. He does intend to bring this to the EOC for approval within the next several months and will bring it before the TAC prior to doing so. The proposal will most likely be from an approved Joint Purchasing agreement.
- e. *Discussion pertaining to future development of IGA Language for*
GWA Interceptor vs Village's Collection Systems start and stop points.
 - i. *VGE – Chidester vs St. Charles Rd. Lift Station*

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- ii. VOL – L22 vs Junction Chamber
- iii. CSO Regulators and lines between the regulators to the facility
- iv. Any others that can be added

No updates given

8. Adjourn – *Meeting adjourned at 10:48am*

SECITON 13.2

PENDING AGENDA ITEMS



Glenbard Wastewater Authority

21W551 Bemis Road Glen Ellyn, Illinois 60137

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

2018 Pending EOC Agenda Items

Projects	Budget	Date	Status
Capital Improvement Projects			
Electrical Service Distribution System Design Engineering	\$250,000	March	STARTED
Facility Plan/Odor Control Study	\$150,000	April	STARTED
Roof Rehabilitation	\$75,000	September	
Infrastructure Improvement			
Telephone System Replacement	\$40,000	July	
UV Building AHU Replacement	\$40,000	April (Under \$20,000, No EOC Approval Needed)	COMPLETED
SCADA & LAN Server, Firewall Replacement	\$80,000	June	PROPOSED
Plant Fiber Testing & Repairs	\$30,000	On Hold	
HSW Improvements Modifications	\$25,000	TBD	
Equipment Rehabilitation			
Admin. Chiller, Coil, Air Handler, & Duct Design	\$75,000	June	PROPOSED
Digester Cleaning	\$65,000	March	COMPLETED
CHP Siloxane and Hydrogen Sulfide Media Replacement	\$75,000	July	
Moyno Pumps (10) Spare Parts	\$25,000	As Needed	
Televising & Cleaning NRI & SRI	\$100,000	June	PROPOSED

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Gravity Thickener Bridge & Mechanism Painting	\$40,000	August/September	
CSO Grit Chamber Rehabilitation	\$30,000	August	
SRI Pump Station Concrete Lining	\$50,000	TBD	
Rolling Stock			
*Godwin 4" Trailer Mounted Pump	\$24,000	June	PROPOSED
Administrative			
Forest Preserve Land Swap & Surveying Costs	\$150,000	March	COMPLETED
Pretreatment Ordinance Recommendation	-----	July	Under USEPA

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SECTION 14.0

NEXT EOC MEETING

THURSDAY

JULY 12, 2018

AT 8:00 A.M.