

GLENBARD WASTEWATER AUTHORITY

Executive Oversight Committee

Agenda

April 11, 2019

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 the months of January, February, and March 2019 totaling \$1,775,627.23 (Trustee Enright).

- 5.1 Amended Executive Oversight Committee Meeting Minutes:
June 14, 2018 EOC Meeting
- 5.2 Executive Oversight Committee Meeting Minutes:
January 10, 2019 EOC Meeting
- 5.3 Vouchers Previously Reviewed by:
January, February, and March 2019 – Trustee Enright
- 5.4 Request for Authorization to Enter into Manhole Inspection Contract with RJN Group, Inc.

In late 2018, GWA's Director and Assistant Director met with the Village of Lombard and RJN Group in regards to performing manhole inspections. Since the sewers have been inspected, it makes sense to also inspect the manhole structures, as they go hand in hand. GWA has never done extensive inspection of its structures, which are all approaching nearly 40 years old. GWA benefited from the Village of Lombard doing research and determining that besides the existing good relationship the Village has with RJN (which GWA also has), RJN is the only professional service provider that could meet the specifications for the type of inspections both ourselves and Lombard would require. Essentially, they

are the only company with the type of technology that would be ideal for the remote locations of our manholes.

The proposal given to GWA was in the form of a not to exceed amount of \$29,860. This proposal had been discussed and approved by the TAC at the January 24th TAC meeting. Therefore, GWA recommended the approval of this contract, but would need EOC approval level due to the dollar amount. In order to take advantage of the competitive pricing for both GWA and Lombard, an agreement was needed to be entered into during February, which would give RJN adequate time to prepare to perform the work for both entities. Since no February EOC meeting occurred, request for approval was sent to the Village Managers, as well as the Glen Ellyn Finance Director.

GWA requests the waiver of bids and for the EOC give retroactive approval for the RJN Manhole Inspection Proposal in the not to exceed amount of **\$29,860**. This work will be charged towards Fund 40-580150, Plant Equipment Rehabilitation, which has \$100,000 budgeted for interceptor related inspection work.

6. Approval of Televising Contract

In March 2019 Authority staff developed and sent out a request for qualifications and technical proposals for Large Diameter Sewer Inspection/Assessment. The due date for the proposals was March 29, 2019.

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 \$68,134.25. All references were checked and are satisfactory.

Therefore, it is recommended the EOC award Redzone Robotics the 2019 Large Diameter Sewer Inspection/Assessment Contract in the amount not to exceed **\$68,134.25**. This amount will be taken out of the designated amount in CY2019 Approved Budget, Fund 40 580150 Plant Equipment Rehabilitation, which is currently budgeted at \$100,000.

7. High Strength Waste Standard Operation Procedure Modifications

At the January 2019 EOC meeting the modification of the existing High Strength Waste (HSW) Receiving Standard Operating Procedures (SOP) was discussed. To summarize the modifications, attached to the agenda item is the package that was posted for public comment.

The Authority received very little public feedback, with the only comments being unrelated to the actual modifications being requested, and only one question. The comments received were simply put, "if odors are detected, we will call." One resident asked how the modifications would affect truck traffic on Bemis. As described in the FAQ's that were distributed to the residents, it is expected that potentially one more truck per day could be traveling on Bemis due to the modifications.

Therefore, seeing no objections from the Public, the Authority respectfully requests the EOC approve the modifications to the HSW SOP's allowing the Authority to receive 20,000 gallons of HSW on a daily basis (M-F, 7am-4pm, no holidays).

8. Discussion

8.1 Facility Improvement Project Update

8.2 June 1, 2019 Open House

The Authority has scheduled its first open house for the hours of 9am-12pm on Saturday, June 1, 2019. Staff is working with both Village's to help advertise, and will be sending physical out mailings as well. The Open House will mainly consist of tours being given on regular intervals, along with displays of stages through the treatment process, equipment, and other items that may be of interest to the public. Enclosed is the advertisement for the event.

9. Other Business

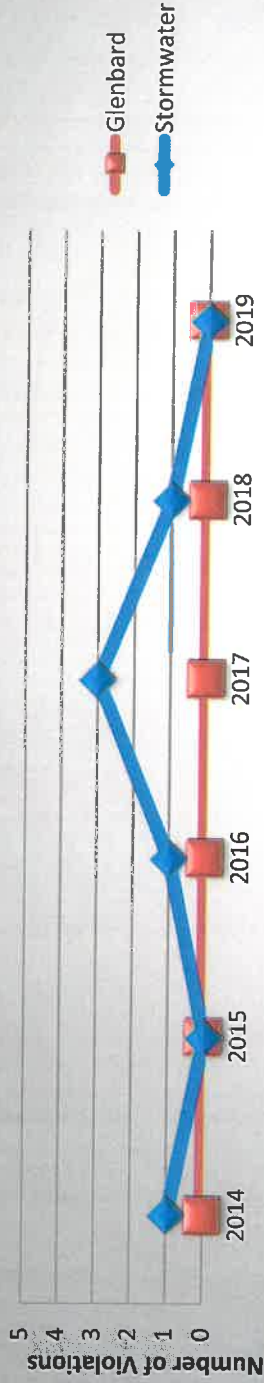
9.1 Technical Advisory Committee Updates

9.2 Pending Agenda Items

10. ***Next EOC Meeting*** – The next regularly scheduled EOC Meeting is set for Thursday, May 9, 2019 at 8:00 a.m., however, GWA staff has a conflict and will not be able to attend that meeting. Therefore, GWA requests input from the EOC as to a date to reschedule the meeting. The May EOC meeting will still be held ***in the Conference Room at the Glenbard Wastewater Authority, 945 Bemis Road, Glen Ellyn, IL 60137.***

11. Executive Session – Materials to be Provided Under Separate Cover
Motion the EOC to adjourn to Executive Session for the purposes of discussing the purchase of real estate property for the use of the public body. The EOC will not be returning to open session after adjournment of the Executive Session.
Executive Session Materials to be provided under separate cover.

NPDES Permit Violations



Glenbard Plant: *Current Record

2246 Days February 4, 2013 through March 31, 2019

Previous excursion free operating record:

1058 Days September 8, 2007 – April 10, 2010

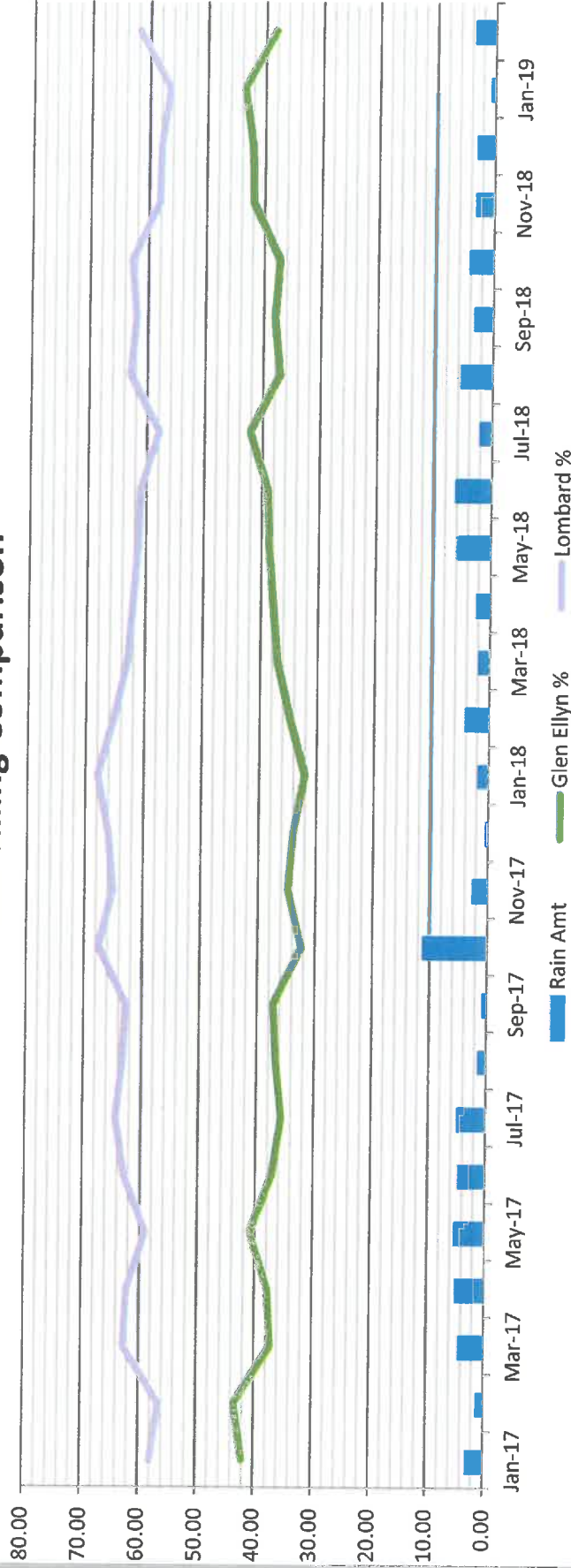
Stormwater Facility:

350 Days April 15, 2018 through March 31, 2019

Current excursion free operating record:

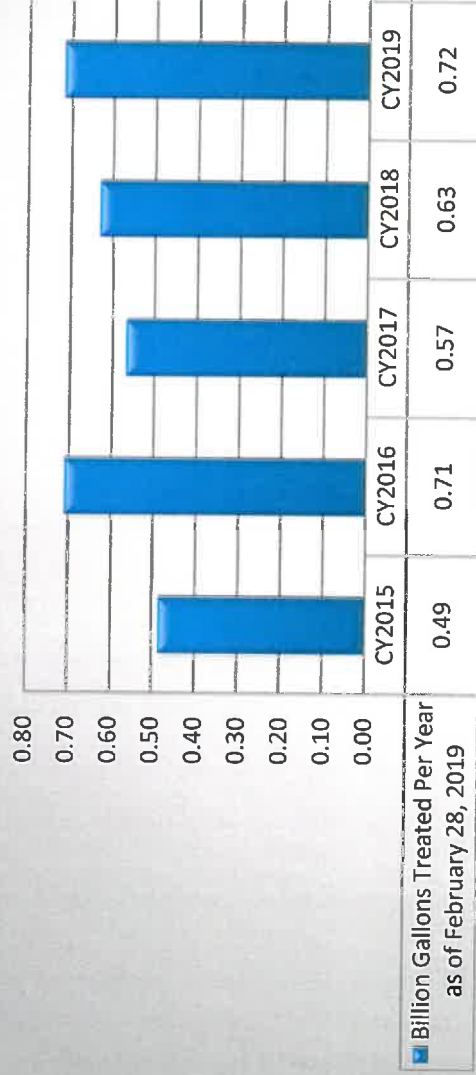
1140 Days July 11, 2009 through August 27, 2012

Flow Billing Comparison

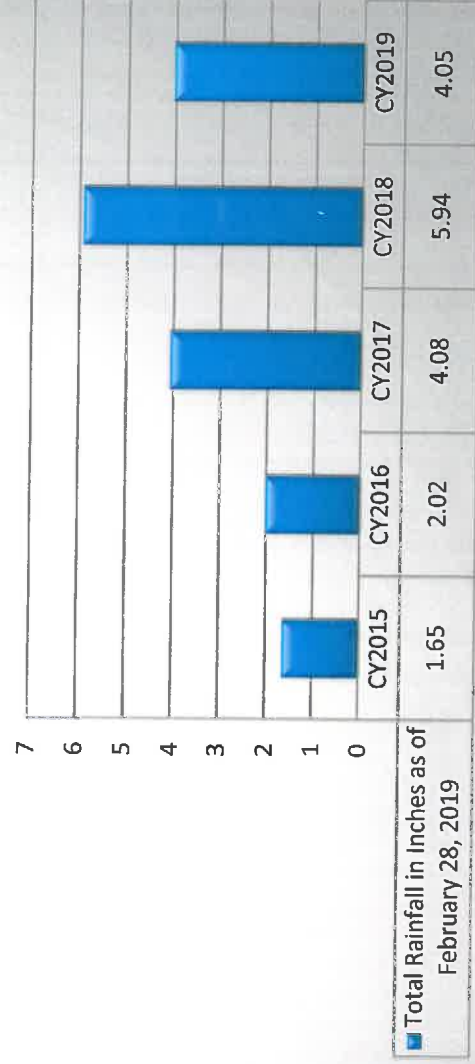




Billion Gallons Treated Per Year as of February 28, 2019



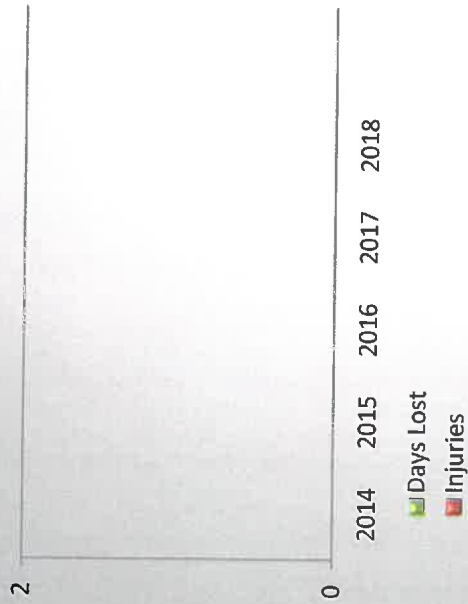
Total Rainfall in Inches as of February 28, 2019



The Authority Key Performance Indicators Regarding Safety and Neighborhood Impacts



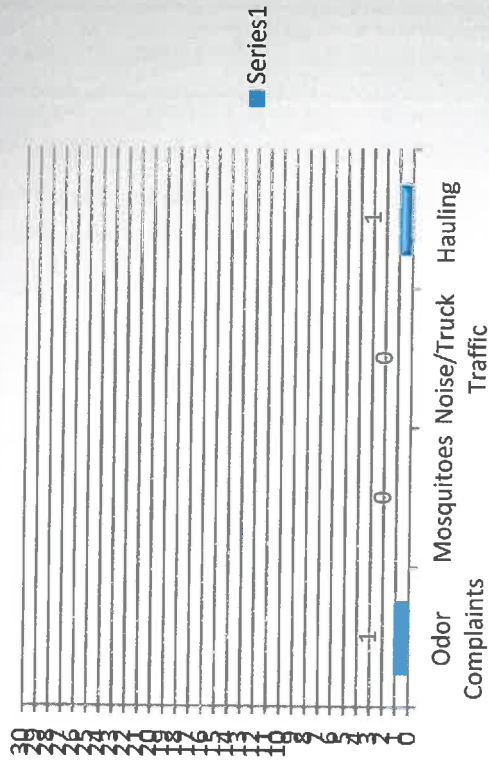
Injuries + Lost Time



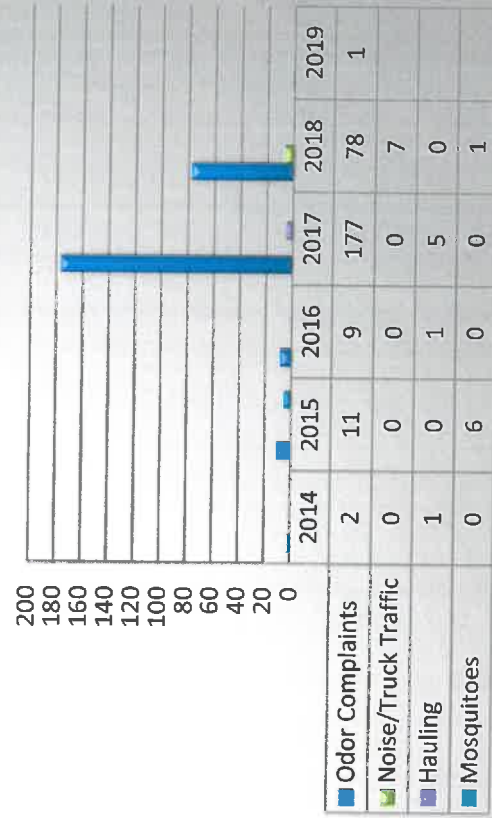
Years	2014	2015	2016	2017	2018
Injuries	0	0	0	0	0
Days Lost	0	0	0	0	0



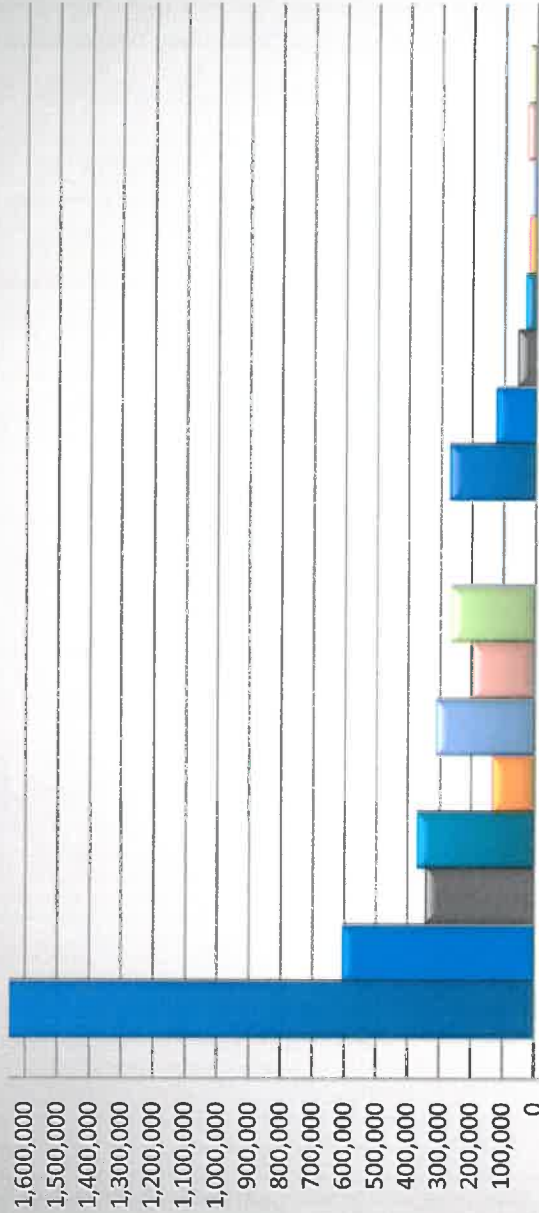
March 2019 Complaints



Annual Complaint Comparison



February 2019 O&M Expense \$ Reporting



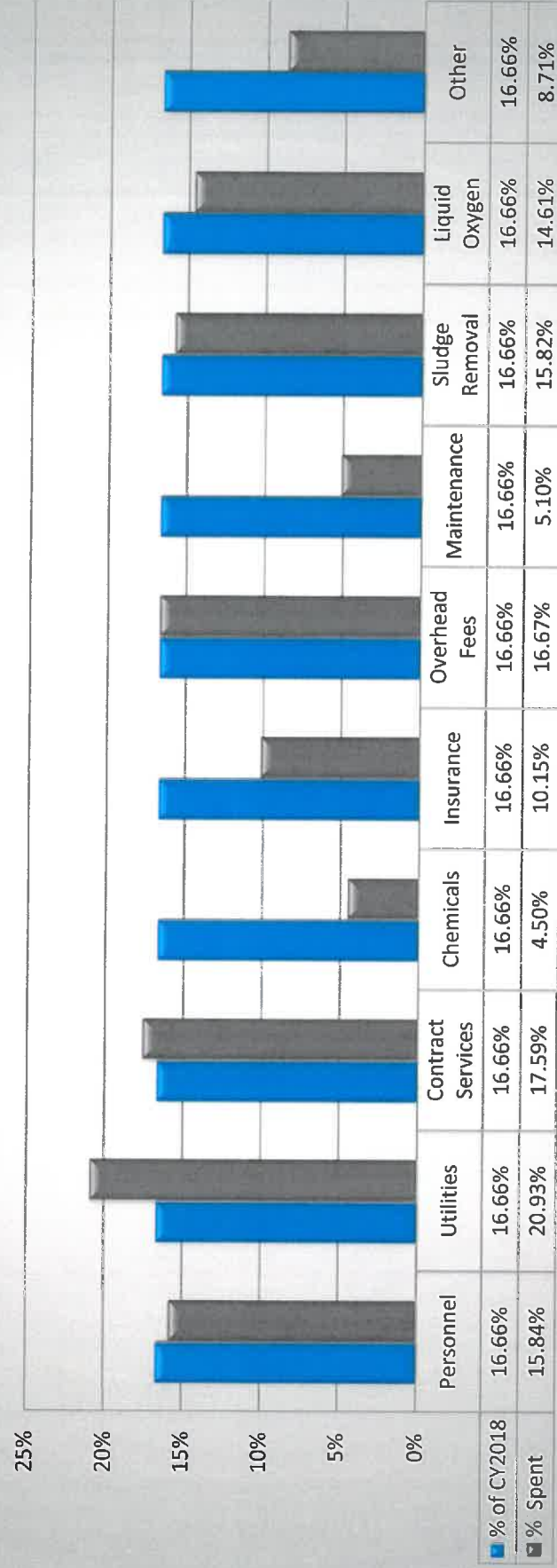
	CY2019 Budget	Spent Year to Date
Personnel	\$1,725,690	\$273,415
Utilities	\$607,800	\$127,210
Contract Services	\$345,950	\$60,841
Insurance	\$373,100	\$37,852
Overhead Fees	\$131,725	\$21,954
Maintenance	\$313,575	\$15,997
Sludge Removal	\$195,000	\$30,856
Other	\$268,100	\$23,345

CY2019 Budget	Personnel	Utilities	Contract Services	Chemicals	Insurance	Overhead Fees	Maintenance	Sludge Removal	Liquid Oxygen	Other
Spent Year to Date	\$1,725,690	\$607,800	\$345,950	\$140,000	\$373,100	\$131,725	\$313,575	\$195,000	\$345,000	\$268,100
% of CY2018	\$273,415	\$127,210	\$60,841	\$6,298	\$37,852	\$21,954	\$15,997	\$30,856	\$50,420	\$23,345
% Spent	15.84%	20.93%	17.59%	4.50%	10.15%	16.67%	5.10%	15.82%	14.61%	8.71%



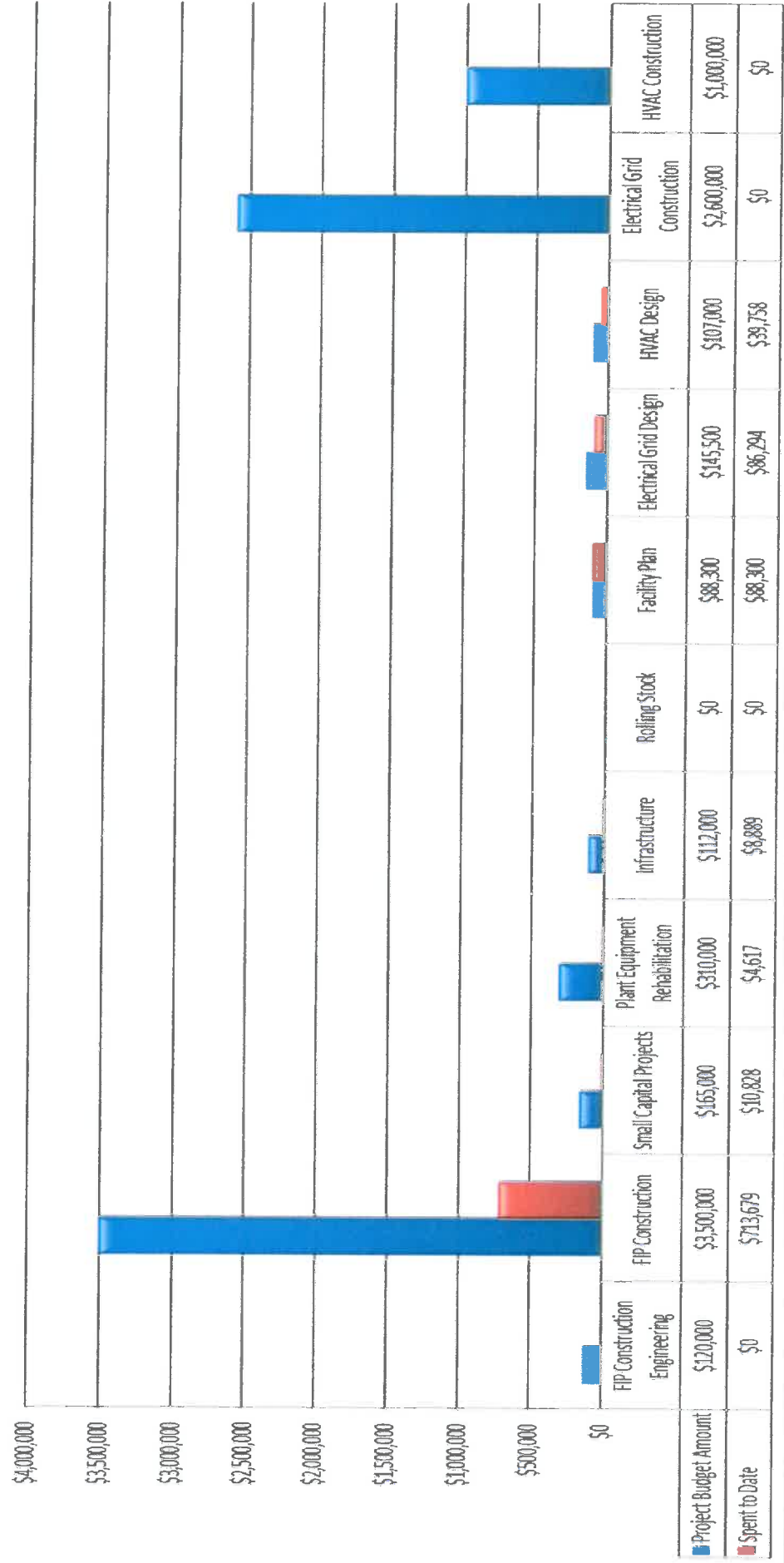


February O&M Expense % Reporting





February 2019 Project Updates



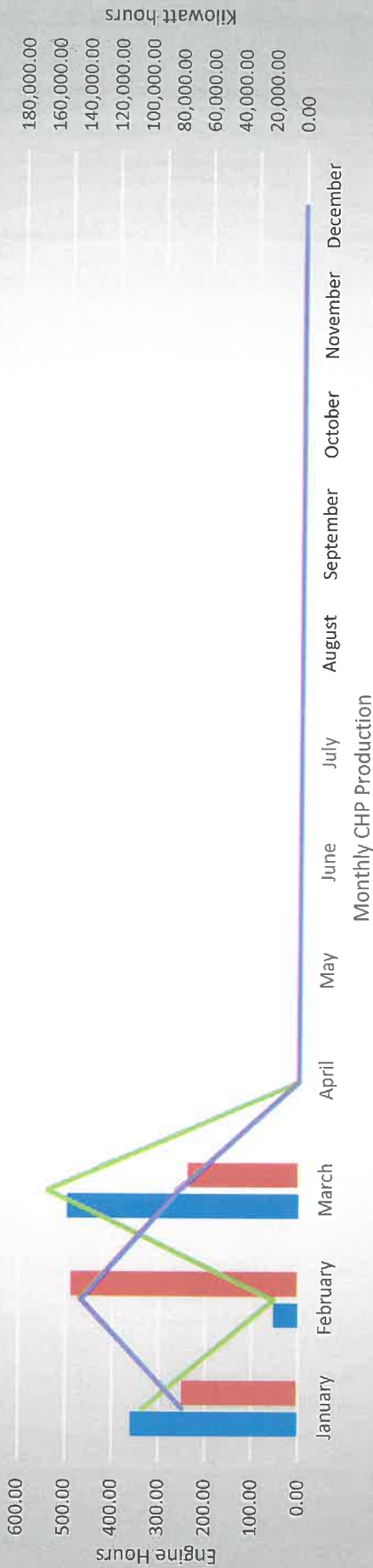


Description	Project Budget Amount	Spent to Date	October Updates
FIP Construction Engineering	\$120,000	\$0	Through March 15, 2019
FIP Construction	\$3,500,000	\$713,679	Through March 15, 2019
Small Capital Projects	\$165,000	\$10,828	Through March 15, 2019
Plant Equipment Rehabilitation	\$310,000	\$4,617	Through March 15, 2019
Infrastructure	\$112,000	\$8,889	Through March 15, 2019
Rolling Stock	\$0	\$0	Through March 15, 2019
Facility Plan	\$88,300	\$88,300	Through March 15, 2019 (\$150K budgeted)
Electrical Grid Design	\$145,500	\$86,294	Through March 15, 2019 (\$250K budgeted)
HVAC Design	\$107,000	\$39,758	Through March 15, 2019 (\$75K budgeted)
Electrical Grid Construction	\$2,600,000	\$0	Through March 15, 2019
HVAC Construction	\$1,000,000	\$0	Through March 15, 2019



Combined Heat & Power Production Report

Road to Net Zero



Monthly CHP Production 2018 = \$0.07/kWh

	Engine #1 Hrs	Engine #2 Hrs	Engine #1 kWh	Engine #2 kWh	Engine #1 Avail kWh	Engine #2 Avail kWh	\$ Saved
January	360.50	744	100,844.00	279,000	279,000	279,000	\$12,183.95
February	53.50	672	16,171.00	252,000	252,000	252,000	\$10,836.42
March	498.20	744	162,414.00	279,000	279,000	279,000	\$16,615.69
April	0.00	720	0.00	270,000	270,000	270,000	\$0.00
May	0.00	744	0.00	279,000	279,000	279,000	\$0.00
June	0.00	720	0.00	270,000	270,000	270,000	\$0.00
July	0.00	744	0.00	279,000	279,000	279,000	\$0.00
August	0.00	744	0.00	279,000	279,000	279,000	\$0.00
September	0.00	720	0.00	270,000	270,000	270,000	\$0.00
October	0.00	744	0.00	279,000	279,000	279,000	\$0.00
November	0.00	720	0.00	270,000	270,000	270,000	\$0.00
December	0.00	744	0.00	279,000	279,000	279,000	\$0.00
					279,000	279,000	\$0.00

Return on Investment Monetary Breakdown



HSW/FOG
Gallons
Received

HSW Tipping
Fees

Elec Energy
Produced @
\$0.11/kWh

Maintenance
Costs

Total + or -

Target to
meet 8.8
Year
Repayment
Schedule

Hit + or Miss

Calendar Year 2018

January	0	\$0.00	\$601.51	\$0.00	\$33,337.95	(32,736.44)
February	0	\$0.00	\$1,001.78	\$0.00	\$33,337.95	(32,336.17)
March	0	\$0.00	\$466.46	\$0.00	\$33,337.95	(32,871.50)
April	0	\$0.00	\$658.38	\$0.00	\$33,337.95	(32,679.58)
May	63,882	\$3,244.10	\$5,567.44	\$0.00	\$33,337.95	(24,525.42)
June	44,500	\$2,250.00	\$7,780.57	(\$774.09)	\$33,337.95	(24,081.48)
July	50,500	\$2,525.00	\$12,404.30	(\$1,431.64)	\$33,337.95	(19,840.30)
August	65,900	\$3,295.00	\$6,162.00	(\$232.71)	\$33,337.95	(24,113.67)
September	30,400	\$1,520.00	\$7,989.88	(\$898.81)	\$33,337.95	(24,726.89)
October	38,100	\$1,905.00	\$5,929.54	(\$652.88)	\$33,337.95	(26,156.30)
November	77,873	\$3,893.65	\$10,399.19	(\$125.00)	\$33,337.95	(19,170.11)
December	96,222	\$4,811.10	\$11,337.00	(\$3.83)	\$33,337.95	(17,193.68)
Annual Totals	467,377	\$23,443.85	\$70,298.04	(\$4,118.96)		
Repayment Balance	\$3,520,487.96					
Annual Payback on Investment	\$207,760.80					
Current Return on Investment in Years	16.9					

Average Since Inception



HSW/FOG
Gallons
Received

HSW Tipping
Fees

Elec Energy
Produced @
\$0.11/kWh

Maintenance
Costs

Total + or -

Target to
meet 8.8
Year
Repayment
Schedule

Hit + or Miss

Calendar Year 2019

January	83,875	\$4,193.75	\$12,183.99	(\$895.00)	\$33,337.95	(17,855.21)
February	104,450	\$5,222.50	\$10,836.42	(\$1,015.00)	\$33,337.95	(18,294.03)
March	172,115	\$8,605.75	\$16,615.69	(\$560.00)	\$33,337.95	(8,676.51)
April	0	\$0.00	\$0.00	\$0.00	\$33,337.95	(33,337.95)
May	0	\$0.00	\$0.00	\$0.00	\$33,337.95	(33,337.95)
June	0	\$0.00	\$0.00	\$0.00	\$33,337.95	(33,337.95)
July	0	\$0.00	\$0.00	\$0.00	\$33,337.95	(33,337.95)
August	0	\$0.00	\$0.00	\$0.00	\$33,337.95	(33,337.95)
September	0	\$0.00	\$0.00	\$0.00	\$33,337.95	(33,337.95)
October	0	\$0.00	\$0.00	\$0.00	\$33,337.95	(33,337.95)
November	0	\$0.00	\$0.00	\$0.00	\$33,337.95	(33,337.95)
December	0	\$0.00	\$0.00	\$0.00	\$33,337.95	(33,337.95)
Annual Totals	360,440	\$18,022.00	\$39,636.10	(\$2,470.00)		
Repayment Balance	\$3,375,676.93					
Annual Payback on Investment	\$220,732.33					
Current Return on Investment in Years	15.3					

Average Since Inception



SECTION 5.0

CONSENT AGENDA

SECTION 5.1

**AMENDED JUNE 14, 2018
MEETING MINUTES**

GLENBARD WASTEWATER AUTHORITY
Executive Oversight Committee
REVISED Minutes
June 14, 2018
Meeting held at the Glenbard Wastewater Plant
945 Bemis Road, Glen Ellyn, IL

Members Present:

Keith Giagnorio	President, Village of Lombard
Mike Fugiel	Trustee, Village of Lombard
Bill Enright	Trustee, Village of Glen Ellyn
Scott Niehaus	Village Manager, Village of Lombard
Mark Franz	Village Manager, Village of Glen Ellyn
Carol Goldsmith	Public Works Director, Village of Lombard
Julius Hansen	Public Works Director, Village of Glen Ellyn

Others Present:

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

1. Call to Order at 8:00 a.m.
2. Roll Call: President Giagnorio, Trustee Fugiel, Trustee Enright, Mr. Franz, Mr. Jack and Mr. Hansen answered "Present". President McGinley and Mr. Goldsmith 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 April and May 2018 totaling \$1,521,815.17 (Trustee Enright).

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

- 5.1 Executive Oversight Committee Meeting Minutes:
 - April 12, 2018 EOC Meeting
- 5.2 Vouchers previously reviewed by Trustee Enright
 - April and May 2018
- 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.

Mr. Niehaus motioned and Trustee Fugiel seconded the motion to award Red Zone Robotics the 2018 large Diameter Sewer Inspection/Assessment Contract in the amount not to exceed \$135,912.50 to be charged to the approved CY2018 Approved Budget 40-580150, Plant Equipment Rehabilitation. President Giagnorio, Trustee Fugiel, Trustee Enright, Mr. Franz, Mr. Jack and Mr. Hansen responded "Aye" during a roll vote. The motion carried.

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.

Mr. Niehaus motioned and Mr. Franz seconded the 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. and to distribute the operating surplus of \$159,394 to the Capital Improvement Fund. President Giagnorio, Trustee Fugiel, Trustee Enright, Mr. Franz, Mr. Jack, and Mr. Hansen responded "Aye" during a roll vote. The motion carried

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 it's 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, Illinois.**

President McGinley moved to adjourn the June 14, 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.

EOC Meeting/June 2018
Minutes

Submitted by:

Gayle A. Lendabarker
GWA Administrative Secretary

SECTION 5.2

MINUTES FROM THE JANUARY 10, 2019 MEETING

**GLENBARD WASTEWATER AUTHORITY
Executive Oversight Committee
Minutes
January 10, 2019, 2018
Meeting held at the Glenbard Wastewater Plant
945 Bemis Road, Glen Ellyn, IL**

Members Present:

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

Others Present:

Matthew Streicher	Executive Director, GWA
Tom Romza	Assistant Director/Engineer, GWA
Rick Freeman	Electrical Superintendent, GWA
David Goodalis	Operations Superintendent, GWA
Jon Braga	Interim Maintenance Superintendent, GWA
Ashley Staat	Environmental Resources Coordinator, GWA
Christina Coyle	Finance Director, Village of Glen Ellyn
Gayle Lendabarker	Administrative Secretary, GWA

1. Call to Order at 8:00 a.m.
2. Roll Call: President Giagnorio, Trustee Fugiel, Trustee Enright, Mr. Niehaus, Mr. Franz, Mr. Goldsmith and Mr. Hansen answered "Present". President McGinley was excused
3. Pledge of Allegiance
4. Public Comment
5. Consent Agenda - The following items are considered to be routine by the Executive Oversight Committee and will be approved with a single vote in the form listed below:

Motion the EOC to approve the following items including Payroll and Vouchers for part of the months of October 2018 (partial), November 2018 totaling and December 2018 \$1,797,455.53 (Trustee Enright).

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

- 5.1 Executive Oversight Committee Meeting Minutes:
 - October 25, 2018 EOC Meeting
- 5.2 Vouchers previously reviewed by Trustee Enright
 - Partial October, November and December 2018
- 5.3 Request for Authorization to Enter into Year 3 of 3 of Flow Monitoring Services Contract with RJN Group, Inc.

GWA requests waiver of bids and authorization to continue into year three of the three-year contract for Flow Monitoring Services with the RJN Group, Inc. The amount of \$122,000 shall be invoiced to Fund 270-520981 in CY2019.

- 5.4 Request for Authorization to Enter into Year 3 of 3 of Sodium Hypochlorite Supply Contract with Alexander Chemical Corporation.

GWA requests waiver of bids and authorization to continue into year three of the three-year contract for the Sodium Hypochlorite Supply Contract with Alexander Chemical Corporation at \$0.632/gallon, and shall be invoiced to Fund 270-520981 in CY2019.

- 5.5 Request for Authorization to Enter into Year 3 of 3 of Sodium Thiosulfate Supply Contract with PVS Chemical.

GWA requests waiver of bids and authorization to continue into year three of the three-year contract for the Sodium Thiosulfate Supply Contract with PVS Chemical at \$1.72/gallon, and shall be invoiced to Fund 270-1-530440 in CY2019.

- 5.6 Request for Authorization to Enter into Year 3 of 3 of the Janitorial Services Contract with RCC Cleaning

GWA requests waiver of bids and authorization to continue into year three of the three-year contract for Janitorial Services with RCC Cleaning for \$12,240, and shall be invoiced to Fund 270-520971 in CY2019.

- 5.7 Request for Authorization to Enter into Year 3 of 5 of the Lease of Atmospheric Vaporizers and Airgas Liquid Oxygen Hauling Agreement

GWA requests waiver of bids and authorization to continue into year three of the five-year contract for the leasing of atmospheric vaporizers and liquid oxygen hauling with Airgas in CY2019. Liquid Oxygen hauling will be priced at \$0.266/per 100 cubic feet with a base delivery charge of \$15,600, and invoiced to Fund 270-530443 in the CY2019 Budget. Atmospheric Vaporizers Leasing will

be priced at \$1,500/month, and invoiced to Fund 40 Capital Plan in the CY2019 Budget.

5.8 Contract Laboratory Services Open Purchase Order Request

In late 2016 the Operations and Laboratory staff solicited three quotes for laboratory professional services for three-year period starting in 2017. Per Village of Glen Ellyn Purchasing Policy Section B.5., since this is a recurring/ongoing service, quotes only need to be obtained once every three years, so long as the cost remains competitive and there is no significant change to the scope of goods/services. Suburban Labs projected a cost of \$25,001.50 for a one-year period based on information provided to them from the Authority. The cost can be variable as call out work is required for the Stormwater Facility during rain events, as well as any extra sampling that might be required for our permit discharge or special condition on river sampling.

This professional service is budgeted in the CY2019 O&M budget account #270-520806 Prof. Serv. Laboratory in the amount of \$24,000. The Operations and Laboratory staff kindly requests the Executive Oversight Committee to approve an open purchase order for a not to exceed amount of \$24,000 for CY2019 as budgeted.

6. Second Amendment to Cell Phone Tower License Agreement

In 2018 TOWERCO, the owner of the cell tower located on Authority (Village of Glen Ellyn) property, approached the Authority with discussion in regards to adding a 3rd carrier (T-Mobile) on the existing cell tower. The proposed amendment would add a 400 square foot enclosure at ground level in the existing storage area that would not have an impact on the operation of the Authority. The proposed amendment would also increase the monthly revenue to the Authority by \$1,650 per month.

Prior to the license agreement amendment going to the Village of Glen Ellyn for formal approval, EOC approval is needed since both member Villages are part of the EOC, and the revenue would benefit the Authority. Therefore, EOC approval is requested for the attached license agreement amendment with TOWERCO. No signature is needed at this time.

Motion the EOC to approve the Second Amendment to the Cell Phone Tower License Agreement with Towerco.

Mr. Streicher indicated that T-Mobile would be the third vendor on the tower which is going to require some additional height being added to the tower. Mr. Streicher noted that all of the zoning and permitting is being handled by the Village of Glen Ellyn Planning Department but the revenue will revert back to GWA.

Trustee Fugiel motioned and Mr. Niehaus seconded the motion to approve the Second Amendment to the Cell Tower License Agreement. President Giagnorio, Trustee

Fugiel, Trustee Enright, Mr. Niehaus, Mr. Franz, Mr. Goldsmith, and Mr. Hansen responded "Aye" during a roll vote. The motion carried.

7. Discussion

7.1 High Strength Waste Standard Operating Procedure

Mr. Streicher indicated that between the SOP's that were approved in April 2018 and the addition of a second feed pump to reduce the chances of a digester upset, GWA Staff has been enabled to better manage feed rate to the digester for the past eight (8) months and would like to post for public comment a sole change to the SOP's reflecting the updated calculations on the amount of FOG that GWA can accept and not the amount being pumped into the digester. Mr. Streicher clarified the purpose behind requesting the change in volume to be taken in is due, in part, to now having actual data as to how much is being fed to the digesters as well as, staff concerns about having to turn away new vendors or returning vendors if the lower daily quantity is close to or has been reached for any given day. Mr. Streicher stated that any changes in the quantity of FOG being taken in as outlined in the SOP's needs to be posted for forty-five (45) days for public review and comment and is seeking approval to post the proposed changes on GWA's web site, in addition to an email communication to those currently on the email distribution list.

Mr. Goldsmith asked what the percentage of increase is being proposed. Mr. Streicher indicated that the current gallons per day being fed into the digesters is 10,800 gallons and is looking to increase to 15,600 gallons. Mr. Goldsmith indicated that he would like to see a quick narrative outlining the percentage of increase and an FAQ document.

Mr. Niehaus asked when the approval to change the quantity would be needed. Mr. Streicher indicated most likely at the April 2019 EOC Committee meeting.

Trustee Fugiel asked if there was any difference between storing in the winter versus storing in the spring. Mr. Streicher indicated that the entire process is enclosed and that while there are odors during the off-loading, FOG is not a contributing factor to odors nor is it impacted by dry or wet weather flows.

Mr. Hansen asked if GWA was increasing FOG intake to it's maximum limit. Mr. Streicher advised GWA is not and the intent of the increase request is to help reduce the times staff has to turn deliveries away. President Giagnorio asked how often has Staff turned away deliveries due to reaching near capacity. Mr. Streicher indicated that it has occurred several times and while it is not a frequent issue, if GWA begins taking on new vendors, it has the potential to become an issue. Mr. Streicher indicated that one of the CHP engines has been running non-stop since January 2, 2019.

Mr. Hansen asked if Mr. Streicher was confident that the new calculations were not going to impact the digester. Mr. Streicher advised that based on the new calculations, which are still at a conservative level, GWA can feed 29,000 gallons a day to the digester without the amount causing the digester to become upset.

Mr. Goldsmith asked what the feed rate was when the digester upset occurred. Mr. Streicher stated that the feed rate was 40,000 gallons in an eight (8) hour period. Mr. Streicher reminded the EOC that as part of the SOP's the health of the digester is being monitored more closely than it was prior to the upset, and that testing is being done three (3) days a week.

Trustee Enright asked what the capacity of the storage tanks was. Mr. Streicher advised approximately 40,000 gallons.

Mr. Streicher asked if he needed to bring the item back to the EOC before public posting. President Giagnorio advised he did not. Mr. Franz added that it will need to be brought for approval after the forty-five (45) day period.

7.2 Facility Improvement Project Update

Mr. Romza advised that most of the work in the Filter building has been completed except for the Chemical Feed, HVAC and sump pump systems that still to be completed; the digging of the hole for the raw pump station is continuing with only some bracing remaining to be installed and an additional eight (8ft) still needs to be dug to accommodate the new pumps.

Mr. Romza also advised that the project is behind schedule on the digging and conversations with GWA's legal counsel have been taking place concerning a letter advising Boller of GWA's position.

Mr. Niehaus indicated that there is a scheduled meeting with Greg Dose and Bill Hrabak, Goldstine's attorney who specializes in construction law.

Mr. Niehaus expressed that while work is still ongoing, he feels there is a need to start documenting GWA's concern about the project going beyond the November 2019 completion date.

Mr. Franz asked if the construction delays are impacting the day-to-day operations of the facility. Mr. Romza and Mr. Goodalis advised that other than the messy appearance of the plant, the delays are not impacting daily operations.

7.3 Discussion of FPA Amendment Inquiry

Mr. Niehaus provided a background of the FPA amendment, which is the result of a developer wanting to develop a piece of property in Lombard that is part of the Flagg Creek Reclamation District; Flagg Creek has regulations restricting the amount of flow per acre that would be prohibitive to certain types of development. Mr. Niehaus indicated that as the property is in a TIF district, the Village's desire to have this property available for a variety of different development options makes moving this parcel from Flagg Creek's FPA to GWA's is very desirable. Mr. Niehaus indicated that the preliminary discussions with Flagg Creek point to them being willing to relinquish the area to GWA and that a meeting to discuss the move is scheduled for later in the day. Mr. Goldsmith added that there have been seven (7) previous FPA amendments in the past for similar reasons, so this is not something that has never been done before.

Mr. Niehaus added that the Village is anticipating Flagg Creek recommending that another area of restaurants at the corner of Butterfield Road and Meyers Road also be transferred as it would free up additional capacity for them and has already had conversations with Mr. Streicher regarding GWA's capacity. Mr. Streicher added that part of the Facility Plan study includes a method for re-calculating GWA's PE, as the that residential use of water is not nearly as high as the totals that were originally calculated.

Mr. Franz asked how is capacity calculated. Mr. Streicher explained that each home is considered to have 3.5 population equivalence (PE) with the one "PE" being 100 gallons, per person, per day; and the new method deems the PE to be 2.8. Mr. Romza added that even the 100 gallons, per person, per day is a dated number.

8. Other Business

8.1 New Personnel Introduction – Environmental Resources Coordinator

Mr. Streicher introduced Ashley Staat, the new Environmental Resources Coordinator, replacing Laurie Frieders who retired last fall.

8.2 Technical Advisory Committee

8.3 Pending Agenda Items

Mr. Streicher indicated that staff is currently reviewing the projects list and will have firm dates by the next EOC Committee meeting.

8.4 Executive Oversight Committee 2019 Meeting Dates

Mr. Franz asked if the Committee had any interest in converting to an every-other month schedule. Mr. Streicher indicated that he is not opposed but would need to be flexible.

Trustee Enright suggested that the currently monthly schedule remain and meetings be cancelled if there are not enough agenda items.

Mr. Enright indicated he had noticed a number of computer system upgrades and ask how they are going. Mr. Streicher deferred to Mr. Freeman who indicated all was going well with the server upgrades and that PC's are next.

9. ***Next EOC Meeting*** – The next regularly scheduled EOC Meeting is set for ***Thursday, February 14, 2019 at 8:00 a.m. in the Conference Room at the Glenbard Wastewater Authority, 945 Bemis Road, Glen Ellyn, Illinois.***

Mr. Franz moved to adjourn the January 10, 2019 EOC Meeting and Mr. Niehaus seconded the MOTION. President Giagnorio, Mr. Fugiel, Mr. Enright, Mr. Niehaus, Mr. Franz, Mr. Goldsmith, and Mr. Hansen responded “Aye” during a roll vote. The motion carried. The meeting adjourned at 8:35 a.m.

Submitted by:

EOC Meeting/January 2019
Minutes

Gayle A. Lendabarker
GWA Administrative Secretary

SECTION 5.3

VOUCHERS

JANUARY 2019,

FEBRUARY 2019 AND

MARCH 2019

\$1,374,101.35

EXPENDITURES:	Check Date	Paid Amount
Accounts Payable Warrant 0119-1	1/16/2019	\$455,280.74
Accounts Payable Warrant 0119-2	1/31/2019	\$535,846.18
Accounts Payable Warrant 0219-1	2/15/2019	\$118,356.24
Accounts Payable Warrant 0219-2	2/27/2019	\$78,490.22
Accounts Payable Warrant 0319-1	3/15/2019	\$108,196.40
Accounts Payable Warrant 0319-2	3/29/2019	\$77,931.57
		\$1,374,101.35

	<u>January 18, 2019</u>	<u>February 1, 2019</u>	<u>February 15, 2019</u>	<u>March 1, 2019</u>	<u>March 15, 2019</u>	<u>March 29, 2019</u>
Net Employee Payroll Checks	\$ 42,356.19	\$ 42,805.66	\$ 38,542.57	\$ 37,585.22	\$ 37,983.49	\$ 37,540.58

Employee & Employer Payroll Deductions:						
Employee Deductions*	\$20,226.94	\$20,742.91	\$18,672.15	\$18,822.77	\$18,846.29	\$18,621.14
IMRF - Employer contribution	\$4,085.88	\$3,872.42	\$3,730.14	\$3,761.86	\$3,737.16	\$3,709.85
Social Security/Medicare Tax Withheld - Employer portion	\$4,594.70	\$4,728.54	\$4,177.05	\$4,115.34	\$4,159.06	\$4,107.97
Total Payroll	\$ 71,263.71	\$ 72,149.53	\$ 65,121.91	\$ 64,285.19	\$ 64,726.00	\$ 63,979.54
GRAND TOTAL						\$ 1,775,627.23

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TO FISCAL 2019/03 01/01/2019 TO 12/31/2019

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION		
881 AIRGAS, INC 19858 INVOICE: 9500506660 19859 INVOICE: 9958470507 19860 INVOICE: 9500511225 19862 INVOICE: 90833941827 19863 INVOICE: 9082298048 19864 INVOICE: 9083541846 19865 INVOICE: 9083294838 19906 INVOICE: 9500511480	12/29/18 01/05/19 01/05/19 01/05/19 01/05/19 12/01/18 12/17/18 12/10/18 01/12/19			957908 957908 957908 957908 957908 957908 957908 957908 957908	P P P P P P P P P	01/16/19 01/16/19 01/16/19 01/16/19 01/16/19 01/16/19 01/16/19 01/16/19 01/16/19	270 270 270 270 270 40 40 270 270 270 40 270 270 270	530443 520980 530443 580180 580180 530443 530443 530443 530443	LIQUID OXYGEN MAINTENANCE-ELECTRONICS LIQUID OXYGEN CRYO VAPORIZOR RENTALS CRYO VAPORIZOR RENTALS LIQUID OXYGEN LIQUID OXYGEN LIQUID OXYGEN LIQUID OXYGEN	2,875.55 58.56 5,035.14 1,500.00 1,500.00 1,503.11 1,472.52 6,596.99
VENDOR TOTALS			78,199.05	YTD INVOICED			78,199.05	YTD PAID	20,541.87	
1246 FOX MARKETING GROUP 19867 INVOICE: 29582	12/28/18			957909	P	01/16/19	270	530100	OFFICE EXPENSES	105.00
VENDOR TOTALS			105.00	YTD INVOICED			105.00	YTD PAID	105.00	
877 ALLIED ELECTRONICS 19907 INVOICE: 9010440984	01/03/19			957910	P	01/16/19	270	520980	MAINTENANCE-ELECTRONICS	50.03
VENDOR TOTALS			395.52	YTD INVOICED			395.52	YTD PAID	50.03	
461 AMERICAN PUBLIC WORKS ASSOCIATION 19930 INVOICE: 19930 19931 INVOICE: 19931 19932 INVOICE: 19932	01/01/19 19930 01/01/19 19931 01/01/19 19932			957912 957912 957912 957912	P P P P	01/16/19 01/16/19 01/16/19 01/16/19	270 270 270 270	520620 520620 520620 520620	EMPLOYEE EDUCATION EMPLOYEE EDUCATION EMPLOYEE EDUCATION EMPLOYEE EDUCATION	695.00 695.00 695.00 695.00
VENDOR TOTALS			2,085.00	YTD INVOICED			2,085.00	YTD PAID	2,085.00	
859 ANALYTICAL SOLUTION, INC 19868 INVOICE: 12004761	12/17/18			957913	P	01/16/19	270	520806	PROFESSIONAL SERVICES-LAB	560.00
VENDOR TOTALS			1,120.00	YTD INVOICED			1,120.00	YTD PAID	560.00	
942 POWER UP BATTERIES LLC 19869 INVOICE: P9852028	12/28/18			957914	P	01/16/19	270	520980	MAINTENANCE-ELECTRONICS	539.80

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

1061 5150, INC										
19911 01/09/19										
INVOICE: 60713-0										
VENDOR TOTALS 809.70 YTD INVOICED 809.70 YTD PAID 539.80										
19912 01/09/19										
INVOICE: 60713-0										
VENDOR TOTALS 1,429.22 YTD INVOICED 1,429.22 YTD PAID 1,429.22										
819 UNITED COMMUNICATIONS										
19912 01/15/19										
INVOICE: 19912										
VENDOR TOTALS 3,943.43 YTD INVOICED 3,943.43 YTD PAID 1,175.50										
1160 CHICAGO METROPOLITAN FIRE PREVENTION CO.										
19914 01/06/19										
INVOICE: IN00202583										
VENDOR TOTALS 1,004.00 YTD INVOICED 1,004.00 YTD PAID 171.00										
47 CINTAS CORPORATION #769										
19915 01/01/19										
INVOICE: 769545492										
VENDOR TOTALS 428.10 YTD INVOICED 428.10 YTD PAID 207.78										
768 CINTAS FIRST AID & SAFETY										
19916 01/11/19										
INVOICE: 8403979161										
VENDOR TOTALS 917.07 YTD INVOICED 917.07 YTD PAID 306.87										
1218 COLLEY ELEVATOR CO.										
19870 12/20/18										
INVOICE: 179682										
19917 01/01/19										
INVOICE: 179955										
VENDOR TOTALS 574.00 YTD INVOICED 574.00 YTD PAID 191.00										
490 COMCAST CABLE COMMUNICATIONS, LLC										
19918 12/25/18										
INVOICE: 19918										
VENDOR TOTALS 613.74 YTD INVOICED 613.74 YTD PAID 204.58										
1138 CONSTELLATION ENERGY SERVICES INC										
19872 12/26/18										
INVOICE: 2489451										
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INVOICE: 2489451										
VENDOR TOTALS 957922 P 01/16/19 270 521202 NATURAL GAS 4,263.92										
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VENDOR NAME DOCUMENT	INV DATE VOUCHER PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
INVOICE: 2489451 19872 12/26/18 INVOICE: 2489451		957922	P	01/16/19	270 521204	SELF-GEN GAS	385.38
VENDOR TOTALS	17,436.00	YTD INVOICED			17,436.00	YTD PAID	4,920.69
981 CROSS RHODES REPROGRAPHICS INC. 19873 12/27/18 INVOICE: 35029		957923	P	01/16/19	270 530100	OFFICE EXPENSES	323.52
VENDOR TOTALS	323.52	YTD INVOICED			323.52	YTD PAID	323.52
66 DETECTION SYSTEMS & SERVICE INC. 19919 12/15/18 INVOICE: S1901341		957924	P	01/16/19	270 520981	ELECTRONICS CONTRACTUAL	336.00
VENDOR TOTALS	336.00	YTD INVOICED			336.00	YTD PAID	336.00
994 DIRECT ENERGY MARKETING, INC. 19874 01/02/19 INVOICE: 190020037005799 19874 01/02/19 INVOICE: 190020037005799 19874 01/02/19 INVOICE: 190020037005799 19874 01/02/19 INVOICE: 190020037005799		957925	P	01/16/19	270 521201	ELECTRIC POWER	44,312.03
		957925	P	01/16/19	270-1 521201	ELECTRIC POWER	2,485.59
		957925	P	01/16/19	270-2 521201	ELECTRIC POWER	1,519.47
		957925	P	01/16/19	270-3 521201	ELECTRIC POWER	888.66
VENDOR TOTALS	149,490.43	YTD INVOICED			149,490.43	YTD PAID	49,205.75
74 DREISILKER ELECTRIC MOTORS INC 19875 12/26/18 INVOICE: I108764		957926	P	01/16/19	270 520980	MAINTENANCE-ELECTRONICS	130.88
VENDOR TOTALS	130.88	YTD INVOICED			130.88	YTD PAID	130.88
86 RESCO, A DIVISION OF WESCO DISTRIBUTION INC 19948 01/08/19 INVOICE: 554069		957927	P	01/16/19	270 520975	MAINTENANCE-EQUIPMENT	209.75
VENDOR TOTALS	225.10	YTD INVOICED			225.10	YTD PAID	209.75
1292 FAIRBORN EQUIPMENT COMPANY OF ILLINOIS LLC 19876 12/27/18 INVOICE: 26275		957928	P	01/16/19	270 520976	MAINTENANCE-CONTRACTUAL	3,512.00
VENDOR TOTALS	3,512.00	YTD INVOICED			3,512.00	YTD PAID	3,512.00
1167 KOR KLEEN INC. 19878 12/14/18 INVOICE: 12-004701		957929	P	01/16/19	270 530100	OFFICE EXPENSES	72.80

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293 VILLAGE OF GLEN ELLYN					
19904	01/01/19	957930 P	01/16/19	270	521203
INVOICE:	19904				WATER
19905	01/01/19	957930 P	01/16/19	270	521203
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VENDOR TOTALS	45,184.80	YTD INVOICED	45,184.80	YTD PAID	922.50
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1072 GOLDSTINE, SKRODZKI, RUSSIAN, NEMEC AND HOFF LTD.				
19879	01/09/19	957931 P 01/16/19	270	520700
INVOICE:	144396			
		LEGAL-GENERAL COUNSEL		163.20

INVOICE: 144396
01/09/19 95/931 P 01/16/19 270 520700 LEGAL-GENERAL COUNSEL 163.20

VENDOR TOTALS	5,010.75	YTD INVOICED	5,010.75	YTD PAID	153.20
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297 W.W. GRAINGER, INC.
19877 12/28/18
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INVOICE: 9044309335							

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20106		

INVOICE:	9049555542	
7/1/22	01/10/23	270
7/1/22	01/10/23	32070
MAINTENANCE-BUILDING & GR		
439.4		

924 01/11/19 957932 P 01/16/19 270 520980 MAINTENANCE-ELECTRONICS 37.24

VENDOR TOTALS	2,303.02	YTD INVOICED	2,303.02	YTD PAID	945.22
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743 GROOT, INC	01/01/19	957933 P 01/16/19 270	520991	OPERATIONS - CONTRACTUAL	274.98
19880	INVOICE: 2744145				

880 01/01/19 957933 P 01/16/19 270 520991 OPERATIONS - CONTRACTUAL 274.98
INVOICE: 2744145

VENDOR TOTALS	804.94	YTD	INVOICED	804.94	YTD	PAID	274.98
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124 HOME DEPOT USA, INC
12/19/18
19881
INVOICE: 5064962

INVOICE:
19881
12/19/18
5064962
955/934 P 01/16/19 Z/0
520980
MAINTENANCE-ELECTRONICS
138.11

INVOICE:
19927
01/10/19
3083525
957934 P 01/16/19 270
520975
MAINTENANCE-EQUIPMENT
27.41

1992B	01/03/19	957934 P	01/16/19	270	520980	MAINTENANCE-ELECTRONICS	44.95
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INVOICES:	60143				
929	01/09/19	957934	P	01/16/19	270
				520990	OPERATIONS - SUPPLIES
					26 92

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

VENDOR TOTALS	553.03	YTD INVOICED	553.03	YTD PAID		237.49	
538 ILLINOIS ENVIRONMENTAL PROTECTION AGENCY							
19953 01/16/19	2452 W	01/15/19	40		550110	IEPA DIGESTER PRINCIPAL	271,003.50
INVOICE: 18							
19953 01/16/19	2452 W	01/15/19	40		550960	IEPA DIGESTER INTEREST	47,497.14
INVOICE: 18							
VENDOR TOTALS	318,500.64	YTD INVOICED	318,500.64	YTD PAID		318,500.64	
1147 ILLINOIS AMERICAN WATER COMPANY							
19886 12/27/18	957935 P	01/16/19	270-3		521203	WATER	125.08
INVOICE: 19886							
VENDOR TOTALS	378.81	YTD INVOICED	378.81	YTD PAID		125.08	
414 COLL CORP							
19883 08/01/18	957936 P	01/16/19	270		520980	MAINTENANCE-ELECTRONICS	1,485.00
INVOICE: 8426							
VENDOR TOTALS	3,835.00	YTD INVOICED	3,835.00	YTD PAID		1,485.00	
185 KONICA MINOLTA BUSINESS SOLUTIONS INC							
19887 12/25/18	957937 P	01/16/19	270		530100	OFFICE EXPENSES	55.10
INVOICE: 9005262355							
VENDOR TOTALS	224.05	YTD INVOICED	224.05	YTD PAID		55.10	
157 LEN'S ACE HARDWARE, INC.							
19884 12/05/18	957938 P	01/16/19	270		520990	OPERATIONS - SUPPLIES	35.16
INVOICE: 87662							
19885 12/26/18	957938 P	01/16/19	270		520975	MAINTENANCE-EQUIPMENT	17.25
INVOICE: 87989-3							
VENDOR TOTALS	440.93	YTD INVOICED	440.93	YTD PAID		52.41	
171 MCMASTER-CARR SUPPLY CO.							
19888 12/28/18	957939 P	01/16/19	270		520975	MAINTENANCE-EQUIPMENT	712.23
INVOICE: 82553990							
19934 01/03/19	957939 P	01/16/19	270		520975	MAINTENANCE-EQUIPMENT	200.94
INVOICE: 82822654							
19935 01/04/19	957939 P	01/16/19	270		520975	MAINTENANCE-EQUIPMENT	51.90
INVOICE: 82931409							
19949 01/03/19	957939 P	01/16/19	270		520975	MAINTENANCE-EQUIPMENT	216.21
INVOICE: 82822653							
VENDOR TOTALS	1,832.60	YTD INVOICED	1,832.60	YTD PAID		1,181.28	
190 SID TOOL CO, INC							
19936 01/02/19	957940 P	01/16/19	270-1		520975	MAINTENANCE-EQUIPMENT	196.79

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

INVOICE: 46273640									
VENDOR TOTALS				1,130.10	YTD	INVOICED	1,130.10	YTD PAID	196.79
209 NCL OF WISCONSIN INC 19937 01/08/19 INVOICE: 417346				957941	P	01/16/19	270	530106	OPERATING SUPPLIES - LAB 735.16
VENDOR TOTALS				1,971.65	YTD	INVOICED	1,971.65	YTD PAID	735.16
873 THE PITNEY BOWES BANK, INC 19890 01/06/19 INVOICE: 19890				957942	P	01/16/19	270	530100	OFFICE EXPENSES 52.01
VENDOR TOTALS				202.01	YTD	INVOICED	202.01	YTD PAID	52.01
876 PITNEY BOWES, INC 19952 12/31/18 INVOICE: 3102831190				957943	P	01/16/19	270	530100	OFFICE EXPENSES 204.00
VENDOR TOTALS				204.00	YTD	INVOICED	204.00	YTD PAID	204.00
226 PORTER PIPE AND SUPPLY CO 19891 12/27/18 INVOICE: 11843153-00 19939 01/10/19 INVOICE: 11848279-00				957944	P	01/16/19	270	520975	MAINTENANCE-EQUIPMENT 272.04
VENDOR TOTALS				957944	P	01/16/19	270	520975	MAINTENANCE-EQUIPMENT 495.08
VENDOR TOTALS				767.12	YTD	INVOICED	767.12	YTD PAID	767.12
1226 RC CLEANING COMPANY 19940 01/01/19 INVOICE: 19940				957945	P	01/16/19	270	520971	BUILDING & GROUNDS CONTRA 1,020.00
VENDOR TOTALS				2,040.00	YTD	INVOICED	2,040.00	YTD PAID	1,020.00
412 NESTLE WATERS NORTH AMERICA 19892 01/07/19 INVOICE: 19A8100616302				957946	P	01/16/19	270	530100	OFFICE EXPENSES 106.85
VENDOR TOTALS				340.53	YTD	INVOICED	340.53	YTD PAID	106.85
1212 RJN GROUP, INC 19893 12/27/18 INVOICE: 305024				20180002	P	01/16/19	270	520981	ELECTRONICS CONTRACTUAL 10,149.00
VENDOR TOTALS				30,447.00	YTD	INVOICED	30,447.00	YTD PAID	10,149.00
993 SIEMENS INDUSTRY, INC. 19941 01/01/19 INVOICE: 5445351202				957948	P	01/16/19	270	520981	ELECTRONICS CONTRACTUAL 11,980.00

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

VENDOR TOTALS			11,980.00	YTD INVOICED			11,980.00	YTD PAID	11,980.00
939 STAPLES CONTRACT & COMMERCIAL INC.									
19894	12/27/18			957949	P	01/16/19	270	OFFICE EXPENSES	59.97
INVOICE: 3400342030									
19943	01/04/19			957949	P	01/16/19	40	SMALL CAPITAL PROJECTS	399.98
INVOICE: 3401204574									
19943	01/04/19			957949	P	01/16/19	270	OFFICE EXPENSES	97.67
INVOICE: 3401204574									
VENDOR TOTALS			926.74	YTD INVOICED			926.74	YTD PAID	557.62
738 SUBURBAN LABORATORIES, INC.									
19895	11/26/18			957950	P	01/16/19	270	PROFESSIONAL SERVICES-LAB	370.50
INVOICE: 160700									
19896	11/26/18			957950	P	01/16/19	270	PROFESSIONAL SERVICES-LAB	370.50
INVOICE: 160699									
19897	12/07/18			957950	P	01/16/19	270	PROFESSIONAL SERVICES-LAB	370.50
INVOICE: 161280									
19898	12/07/18			957950	P	01/16/19	270	PROFESSIONAL SERVICES-LAB	370.50
INVOICE: 161278									
19942	01/09/19			957950	P	01/16/19	270	PROFESSIONAL SERVICES-LAB	625.00
INVOICE: 162203									
VENDOR TOTALS			6,066.50	YTD INVOICED			6,066.50	YTD PAID	2,107.00
271 TERRACE SUPPLY COMPANY									
19899	12/31/18			957951	P	01/16/19	270	MAINTENANCE-CONTRACTUAL	51.46
INVOICE: 995440									
19944	01/03/19			957951	P	01/16/19	270	MAINTENANCE-EQUIPMENT	59.85
INVOICE: 70429699									
19945	01/11/19			957951	P	01/16/19	270	MAINTENANCE-EQUIPMENT	204.60
INVOICE: 70430263									
VENDOR TOTALS			522.65	YTD INVOICED			522.65	YTD PAID	315.91
1001 TROTTER AND ASSOCIATES, INC.									
19900	12/31/18		20180010	957952	P	01/16/19	40	FACILITY PLANNING 2018	14,689.75
INVOICE: 15246									
VENDOR TOTALS			18,689.75	YTD INVOICED			18,689.75	YTD PAID	14,689.75
477 UNITED PARCEL SERVICE, INC									
19901	12/29/18			957953	P	01/16/19	270	OFFICE EXPENSES	24.09
INVOICE: 99F103528									
19902	01/04/19			957954	P	01/16/19	270	OFFICE EXPENSES	58.42
INVOICE: 1293615696									
VENDOR TOTALS			86.90	YTD INVOICED			86.90	YTD PAID	82.51

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289 HD SUPPLY FACILITIES MAINT LTD 19903 INVOICE: 767866	12/20/18	957955	P	01/16/19	270 520990	OPERATIONS - SUPPLIES	132.80
VENDOR TOTALS		132.80	YTD INVOICED		132.80	YTD PAID	132.80
988 VERIZON WIRELESS SERVICES LLC 19950 INVOICE: 9821405670	01/01/19	957956	P	01/16/19	270 521195	TELECOMMUNICATIONS	228.28
VENDOR TOTALS		1,780.83	YTD INVOICED		1,780.83	YTD PAID	228.28
300 WATER ENVIRONMENT FEDERATION 19947 INVOICE: 1-1900605075	01/02/19	957957	P	01/16/19	270 520600	DUES-SUBSCRIPTIONS-REG FE	1,542.00
VENDOR TOTALS		1,542.00	YTD INVOICED		1,542.00	YTD PAID	1,542.00
REPORT TOTALS							455,280.74

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	49	136,780.10
TOTAL WIRE TRANSFERS	1	318,500.64

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VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
2 AAREN PEST CONTROL, INC. 19970 01/15/19 INVOICE: 29730 19970 01/15/19 INVOICE: 29730				957958	P	01/31/19	270	520971	BUILDING & GROUNDS CONTRA
				957958	P	01/31/19	270-1	520970	MAINTENANCE-BUILDING & GR
VENDOR TOTALS				100.00	YTD INVOICED			100.00	YTD PAID
881 AIRGAS, INC 19960 01/19/19 INVOICE: 9084364256 19971 01/19/19 INVOICE: 9084597255 19972 01/19/19 INVOICE: 9500511696 19973 01/26/19 INVOICE: 9500511911				957959	P	01/31/19	270	530443	LIQUID OXYGEN
				957959	P	01/31/19	270	520975	MAINTENANCE-EQUIPMENT
				957959	P	01/31/19	270	530443	LIQUID OXYGEN
				957959	P	01/31/19	270	530443	LIQUID OXYGEN
VENDOR TOTALS				78,199.05	YTD INVOICED			78,199.05	YTD PAID
218 PATTEN INDUSTRIES, INC. 19976 01/04/19 INVOICE: P60C0232576A 19977 01/08/19 INVOICE: P60R0047299A 19978 01/09/19 INVOICE: P0C0232593				957960	P	01/31/19	40	580120	SMALL CAPITAL PROJECTS
				957960	P	01/31/19	40	580120	SMALL CAPITAL PROJECTS
				957960	P	01/31/19	40	580120	SMALL CAPITAL PROJECTS
VENDOR TOTALS				8,016.57	YTD INVOICED			8,016.57	YTD PAID
1124 BLACK & VEATCH CORPORATION 19961 12/27/18 INVOICE: 1286503				20160007		01/30/19	40	580180	14007 FACILITY IMPROVEMENT PROJ
VENDOR TOTALS				3,233.25	YTD INVOICED			3,233.25	YTD PAID
1221 BOLLER CONSTRUCTION CO, INC 20004 11/30/18 INVOICE: PAYMENT 15				20170007		01/30/19	40	580180	14007 FACILITY IMPROVEMENT PROJ
VENDOR TOTALS				431,418.00	YTD INVOICED			431,418.00	YTD PAID
976 MERCURY PARTNERS 90 BI, INC 19963 12/31/18 INVOICE: 138682				957961	P	01/31/19	270	520980	MAINTENANCE-ELECTRONICS
VENDOR TOTALS				18,630.00	YTD INVOICED			18,630.00	YTD PAID
1268 JP MORGAN CHASE NA 190697 01/07/19 INVOICE: BRAJ-6				2453	W	01/28/19	270	520975	MAINTENANCE-EQUIPMENT

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VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
194655 INVOICE: LENG-11	01/07/19			2454	W	01/28/19	270	530100 OFFICE EXPENSES	315.00
194665 INVOICE: FRER-7	01/07/19			2460	W	01/28/19	270	520981 ELECTRONICS CONTRACTUAL	69.95
19954 INVOICE: LENG-12	01/07/19			2455	W	01/28/19	270	530100 OFFICE EXPENSES	67.93
19955 INVOICE: LENG-13	01/07/19			2456	W	01/28/19	270	530100 OFFICE EXPENSES	103.52
19956 INVOICE: LENG-14	01/07/19			2457	W	01/28/19	270	530100 OFFICE EXPENSES	233.05
19957 INVOICE: LENG-15	01/07/19			2458	W	01/28/19	270	520600 DUES-SUBSCRIPTIONS-REG FE	58.00
19958 INVOICE: LENG-16	01/07/19			2459	W	01/28/19	270	521195 TELECOMMUNICATIONS	299.87
VENDOR TOTALS				5,330.86	YTD INVOICED			5,330.86 YTD PAID	1,456.89
1248 B&W CONTROL SYSTEMS INTEGRATION LLC									
19964 INVOICE: 203819	01/18/19			957962	P	01/31/19	270	520981 ELECTRONICS CONTRACTUAL	598.78
19979 INVOICE: 203819A	01/18/19			957962	P	01/31/19	270	520981 ELECTRONICS CONTRACTUAL	8,143.45
19980 INVOICE: 203820	01/18/19			957962	P	01/31/19	40	580120 SMALL CAPITAL PROJECTS	2,670.00
VENDOR TOTALS				16,412.23	YTD INVOICED			16,412.23 YTD PAID	11,412.23
1138 CONSTELLATION ENERGY SERVICES INC									
19966 INVOICE: 2511771	01/22/19			957963	P	01/31/19	270	521202 NATURAL GAS	4,415.97
19966 INVOICE: 2511771	01/22/19			957963	P	01/31/19	270-1	521202 NATURAL GAS	343.15
19966 INVOICE: 2511771	01/22/19			957963	P	01/31/19	270	521204 SELF-GEN GAS	287.12
VENDOR TOTALS				17,436.00	YTD INVOICED			17,436.00 YTD PAID	5,046.24
1269 FIRST FENCE, INC.									
19981 INVOICE: 33716	01/22/19			957964	P	01/31/19	40	580150 PLANT EQUIPMENT REHABILIT	13,850.00
VENDOR TOTALS				13,850.00	YTD INVOICED			13,850.00 YTD PAID	13,850.00
293 VILLAGE OF GLEN ELLYN									
1013162 INVOICE: IFT-171	01/28/19			2462	W	01/28/19	270	521130 OVERHEAD FEES	10,977.17
1013162 INVOICE: IFT-171	01/28/19			2462	W	01/28/19	270	520976 MAINTENANCE-CONTRACTUAL	3,058.33
VENDOR TOTALS				45,184.80	YTD INVOICED			45,184.80 YTD PAID	14,035.50

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VENDOR NAME	DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
297 W.W. GRAINGER, INC.										
19982		01/15/19			957965	P	01/31/19	270	520970	MAINTENANCE-BUILDING & GR
INVOICE:		9057993355			957965	P	01/31/19	270	520970	MAINTENANCE-BUILDING & GR
19983		01/17/19			957965	P	01/31/19	270	520975	MAINTENANCE-EQUIPMENT
INVOICE:		9059696386			957965	P	01/31/19	270	520975	MAINTENANCE-EQUIPMENT
19984		01/17/19			957965	P	01/31/19	270	520975	MAINTENANCE-EQUIPMENT
INVOICE:		9060046977			957965	P	01/31/19	270	520975	MAINTENANCE-EQUIPMENT
VENDOR TOTALS					2,303.02	YTD	INVOICED		2,303.02	YTD PAID
1147 ILLINOIS AMERICAN WATER COMPANY					957966	P	01/31/19	270-3	521201	ELECTRIC POWER
19985		01/25/19			957966	P	01/31/19	270-3	521201	ELECTRIC POWER
INVOICE:		19985			957966	P	01/31/19	270-3	521201	ELECTRIC POWER
VENDOR TOTALS					378.81	YTD	INVOICED		378.81	YTD PAID
126 ILLINOIS ASSN. OF WASTEWATER AGENCIES					957967	P	01/31/19	270	520620	EMPLOYER EDUCATION
19986		01/15/19			957967	P	01/31/19	270	520620	EMPLOYER EDUCATION
INVOICE:		4565			957967	P	01/31/19	270	520620	EMPLOYER EDUCATION
VENDOR TOTALS					100.00	YTD	INVOICED		100.00	YTD PAID
1278 TYCO FIRE & SECURITY (US) MANAGEMENT, INC.					957968	P	01/31/19	270	520981	ELECTRONICS CONTRACTUAL
20006		01/12/19			957968	P	01/31/19	270	520981	ELECTRONICS CONTRACTUAL
INVOICE:		31846407			957968	P	01/31/19	270	520981	ELECTRONICS CONTRACTUAL
20007		01/12/19			957968	P	01/31/19	270	520981	ELECTRONICS CONTRACTUAL
INVOICE:		31846409			957968	P	01/31/19	270	520981	ELECTRONICS CONTRACTUAL
VENDOR TOTALS					268.44	YTD	INVOICED		268.44	YTD PAID
1102 JULIE, INC.					957969	P	01/31/19	270	520600	DUES-SUBSCRIPTIONS-RBG FE
19989		01/09/19			957969	P	01/31/19	270	520600	DUES-SUBSCRIPTIONS-RBG FE
INVOICE:		2019-0710			957969	P	01/31/19	270	520600	DUES-SUBSCRIPTIONS-RBG FE
VENDOR TOTALS					312.51	YTD	INVOICED		312.51	YTD PAID
666 LABSOURCE, INC.					957970	P	01/31/19	270	530225	SAFETY RELATED EQUIPMNT/S
19990		01/23/19			957970	P	01/31/19	270	530225	SAFETY RELATED EQUIPMNT/S
INVOICE:		6484634			957970	P	01/31/19	270	530225	SAFETY RELATED EQUIPMNT/S
VENDOR TOTALS					755.04	YTD	INVOICED		755.04	YTD PAID
1189 LEAHY-WOLF COMPANY					957971	P	01/31/19	270	520975	MAINTENANCE-EQUIPMENT
19991		01/15/19			957971	P	01/31/19	270	520975	MAINTENANCE-EQUIPMENT
INVOICE:		378710			957971	P	01/31/19	270	520975	MAINTENANCE-EQUIPMENT
VENDOR TOTALS					1,790.00	YTD	INVOICED		1,790.00	YTD PAID
157 LEN'S ACE HARDWARE, INC.					957972	P	01/31/19	270	520990	OPERATIONS - SUPPLIES
19992		01/02/19			957972	P	01/31/19	270	520990	OPERATIONS - SUPPLIES
INVOICE:		88060-3			957972	P	01/31/19	270	520990	OPERATIONS - SUPPLIES
VENDOR TOTALS					895.00	YTD	INVOICED		895.00	YTD PAID

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VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
19993 INVOICE: 86080	01/04/19			957972	P	01/31/19	270	520975	20.62
19994 INVOICE: 88113	01/07/19			957972	P	01/31/19	270	520990	3.99
19997 INVOICE: 88109	01/07/19			957972	P	01/31/19	270	520990	-25.58
19998 INVOICE: 88141	01/08/19			957972	P	01/31/19	270	520990	8.00
19999 INVOICE: 88147	01/09/19			957972	P	01/31/19	270	520990	36.77
20001 INVOICE: 88327	01/21/19			957972	P	01/31/19	270	530445	79.99
20002 INVOICE: 88383	01/25/19			957972	P	01/31/19	270	530225	19.18
20008 INVOICE: 88269	01/16/19			957972	P	01/31/19	270	520990	13.58
VENDOR TOTALS				440.93	YTD INVOICED			440.93	YTD PAID
517 LIPKE-KENTEX CORP.									212.53
20003 INVOICE: 563196	01/21/19			957973	P	01/31/19	270	520976	340.88
VENDOR TOTALS				340.88	YTD INVOICED			340.88	YTD PAID
171 MCMASTER-CARR SUPPLY CO.									16.54
20005 INVOICE: 83588994	01/11/19			957974	P	01/31/19	270	520975	340.88
VENDOR TOTALS				1,832.60	YTD INVOICED			1,832.60	YTD PAID
1223 CAPITAL ONE NATIONAL ASSN									16.54
20009 INVOICE: 317500719033178	01/07/19			957975	P	01/31/19	270	520975	8.57
20010 INVOICE: 317501819027278	01/18/19			957975	P	01/31/19	270	520975	6.24
VENDOR TOTALS				370.66	YTD INVOICED			370.66	YTD PAID
178 MICHAEL'S UNIFORM COMPANY, INC.									14.81
20011 INVOICE: 90272	01/18/19			957976	P	01/31/19	270	530445	189.48
VENDOR TOTALS				527.67	YTD INVOICED			527.67	YTD PAID
190 SID TOOL CO, INC									189.48
20012 INVOICE: 52822620	01/21/19			957977	P	01/31/19	270	520975	6.64
20013 INVOICE: 53383300	01/22/19			957977	P	01/31/19	270	520975	342.71

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TO FISCAL 2019/03 01/01/2019 TO 12/31/2019

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION
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TOTAL PRINTED CHECKS	27							
TOTAL WIRE TRANSFERS	11							

85,702.54
450,143.64

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TO FISCAL 2019/03 01/01/2019 TO 12/31/2019

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION		
881 AIRGAS, INC 20025 INVOICE: 9959208964 20028 INVOICE: 9085036888 20029 INVOICE: 9500516710 20030 INVOICE: 9500516464	02/02/19 9959208964 02/02/19 9085036888 02/09/19 9500516710 02/02/19 9500516464		20190002	957987 957986 957987 957987	P P P P	02/15/19 02/15/19 02/15/19 02/15/19	270 40 270 270	520980 580180 530443 530443	MAINTENANCE-ELECTRONICS CRYO VAPORIZOR RENTALS LIQUID OXYGEN LIQUID OXYGEN	58.56 1,500.00 4,455.37 3,014.10
VENDOR TOTALS		78,199.05	YTD INVOICED					78,199.05	YTD PAID	9,028.03
9 ALEXANDER CHEMICAL CORPORATION 20031 INVOICE: SLS10078043	02/07/19 SLS10078043			957988	P	02/15/19	270-1	530440	CHEMICALS	3,148.20
VENDOR TOTALS		3,148.20	YTD INVOICED					3,148.20	YTD PAID	3,148.20
877 ALLIED ELECTRONICS 20032 INVOICE: 9010572207	01/31/19 9010572207			957989	P	02/15/19	270	520980	MAINTENANCE-ELECTRONICS	345.49
VENDOR TOTALS		395.52	YTD INVOICED					395.52	YTD PAID	345.49
218 PATTEN INDUSTRIES, INC. 20033 INVOICE: P60C0232678	02/06/19 P60C0232678			957990	P	02/15/19	270	520975	MAINTENANCE-EQUIPMENT	418.50
VENDOR TOTALS		8,016.57	YTD INVOICED					8,016.57	YTD PAID	418.50
1294 ASHLEY STAAT 20071 INVOICE: 20071	02/13/19 20071			957991	P	02/15/19	270	520620	EMPLOYEE EDUCATION	35.00
VENDOR TOTALS		35.00	YTD INVOICED					35.00	YTD PAID	35.00
33 CALCO, LTD. 20034 INVOICE: AU46098	02/07/19 AU46098			957992	P	02/15/19	270	530440	CHEMICALS	143.00
VENDOR TOTALS		143.00	YTD INVOICED					143.00	YTD PAID	143.00
819 UNITED COMMUNICATIONS 20073 INVOICE: 20073	02/15/19 20073			958015	P	02/19/19	270	521195	TELECOMMUNICATIONS	1,181.11
VENDOR TOTALS		3,943.43	YTD INVOICED					3,943.43	YTD PAID	1,181.11
47 CINTAS CORPORATION #769 20035 INVOICE: 769559422	01/29/19 769559422			957993	P	02/15/19	270	520971	BUILDING & GROUNDS CONTRA	77.62

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GL ACCOUNT DESCRIPTION

397.80

3,763.80

995.88

995.88

274.98

274.98

309.47

309.47

35.00

35.00

4,500.00

4,500.00

105.40

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670.69

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VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
20049 INVOICE: 86004380	02/07/19			958004	P	02/15/19	270-1	520970	MAINTENANCE-BUILDING & GR 413.24
20050 INVOICE: 85910355	02/07/19			958004	P	02/15/19	270-1	520970	MAINTENANCE-BUILDING & GR -413.24
20051 INVOICE: 86005112	02/07/19			958004	P	02/15/19	270	520975	MAINTENANCE-EQUIPMENT 236.02
VENDOR TOTALS				1,832.60	YTD INVOICED			1,832.60	YTD PAID 362.25
178 MICHAEL'S UNIFORM COMPANY, INC. 20052 01/25/19 INVOICE: 90361				958005	P	02/15/19	270	530445	UNIFORMS 104.50
VENDOR TOTALS				527.67	YTD INVOICED			527.67	YTD PAID 104.50
182 MIDWEST SALT 20053 01/31/19 INVOICE: P443315				958006	P	02/15/19	270	530225	SAFETY RELATED EQUIPMENT/S 320.95
VENDOR TOTALS				320.95	YTD INVOICED			320.95	YTD PAID 320.95
190 SID TOOL CO, INC 20072 02/12/19 INVOICE: 60372080				958007	P	02/15/19	270	520975	MAINTENANCE-EQUIPMENT 88.84
VENDOR TOTALS				1,130.10	YTD INVOICED			1,130.10	YTD PAID 88.84
1142 GENUINE PARTS CO-NAPA 20021 10/16/18 INVOICE: 482645				958008	P	02/15/19	270	520975	MAINTENANCE-EQUIPMENT -2.00
20054 01/25/19 INVOICE: 495080				958008	P	02/15/19	270	520975	MAINTENANCE-EQUIPMENT 4.29
20055 02/06/19 INVOICE: 496165				958008	P	02/15/19	270	520975	MAINTENANCE-EQUIPMENT 6.49
VENDOR TOTALS				8.78	YTD INVOICED			8.78	YTD PAID 8.78
1293 POLACH APPRAISAL GROUP, INC 20019 02/08/19 INVOICE: 20819				957985	P	02/12/19	40	580120	SMALL CAPITAL PROJECTS 1,500.00
VENDOR TOTALS				1,500.00	YTD INVOICED			1,500.00	YTD PAID 1,500.00
233 PVS MINIBULK, INC 20056 02/07/19 INVOICE: 130391				958009	P	02/15/19	270-1	530440	CHEMICALS 3,006.84
VENDOR TOTALS				3,006.84	YTD INVOICED			3,006.84	YTD PAID 3,006.84
1226 RC CLEANING COMPANY 20057 02/07/19				958010	P	02/15/19	270	520971	BUILDING & GROUNDS CONTRA 1,020.00

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

INVOICE: 20057

VENDOR TOTALS 2,040.00 YTD INVOICED 2,040.00 YTD PAID 1,020.00

412 NESTLE WATERS NORTH AMERICA 958011 P 02/15/19 270 530100 OFFICE EXPENSES 96.86

20058 INVOICE: 19B8100616302

VENDOR TOTALS 340.53 YTD INVOICED 340.53 YTD PAID 96.86

1212 RJN GROUP, INC 958019 P 02/19/19 270 520981 ELECTRONICS CONTRACTUAL 10,149.00

20059 INVOICE: 305025

VENDOR TOTALS 30,447.00 YTD INVOICED 30,447.00 YTD PAID 10,149.00

738 SUBURBAN LABORATORIES, INC. 958012 P 02/15/19 270 520806 PROFESSIONAL SERVICES-LAB 568.50

20060 INVOICE: 162706

20061 INVOICE: 162865 958012 P 02/15/19 270 520806 PROFESSIONAL SERVICES-LAB 40.00

20062 INVOICE: 162866

20064 INVOICE: 162933 958012 P 02/15/19 270 520806 PROFESSIONAL SERVICES-LAB 605.00

VENDOR TOTALS 6,066.50 YTD INVOICED 6,066.50 YTD PAID 1,253.50

1271 SYNAGRO-WWT 958020 P 02/19/19 270 521150 SLUDGE DISPOSAL - LAND 16,492.00

20065 INVOICE: 20-134145

VENDOR TOTALS 46,284.00 YTD INVOICED 46,284.00 YTD PAID 16,492.00

271 TERRACE SUPPLY COMPANY 958013 P 02/15/19 270 520976 MAINTENANCE-CONTRACTUAL 51.46

20066 INVOICE: 996436

20067 INVOICE: 70432370 958013 P 02/15/19 270 520975 MAINTENANCE-EQUIPMENT 38.00

20068 INVOICE: 70432369

VENDOR TOTALS 522.65 YTD INVOICED 522.65 YTD PAID 116.74

1001 TROTTER AND ASSOCIATES, INC. 958014 P 02/15/19 40 580180 18003 FACILITY PLANNING 2018 4,000.00

20069 INVOICE: 15333

VENDOR TOTALS 18,689.75 YTD INVOICED 18,689.75 YTD PAID 4,000.00

REPORT TOTALS 118,356.24

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VENDOR NAME	DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION
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TOTAL PRINTED CHECKS	COUNT	AMOUNT
	36	118,356.24

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VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
881 AIRGAS, INC 20083 INVOICE: 9500516949 20084 INVOICE: 9500517160 VENDOR TOTALS	02/16/19 9500516949 02/23/19 9500517160			958021 958021	P P	02/27/19 02/27/19	530443 530443	LIQUID OXYGEN LIQUID OXYGEN	6,539.46 6,887.48
1260 APPLIED INDUSTRIAL TECHNOLOGIES INC 20085 INVOICE: 7015551907 VENDOR TOTALS	02/15/19 7015551907			958022 958023	P P	02/27/19 02/27/19	520975 520980	MAINTENANCE-EQUIPMENT MAINTENANCE-ELECTRONICS	196.76 269.90
942 POWER UP BATTERIES LLC 20086 INVOICE: P11750715 VENDOR TOTALS	02/20/19 P11750715			2471 2466 2467 2468 2469 2470 2472 2473 2474	W W W W W W W W W	02/25/19 02/25/19 02/25/19 02/25/19 02/25/19 02/25/19 02/25/19 02/25/19 02/25/19	520620 520620 530100 530100 520620 521195 520620 520975 520975	EMPLOYEE EDUCATION EMPLOYEE EDUCATION OFFICE EXPENSES OFFICE EXPENSES EMPLOYEE EDUCATION TELECOMMUNICATIONS EMPLOYEE EDUCATION MAINTENANCE-EQUIPMENT MAINTENANCE-EQUIPMENT	79.00 250.00 177.22 24.12 160.00 285.93 510.00 57.69 270.30
1268 JP MORGAN CHASE NA 190698 INVOICE: BRAJ-7 194656 INVOICE: LENG-17 20075 INVOICE: LENG-18 20076 INVOICE: LENG-19 20077 INVOICE: LENG-20 20078 INVOICE: LENG-21 20079 INVOICE: BRAJ-8 20080 INVOICE: BRAJ-9 20081 INVOICE: BRAJ-10 VENDOR TOTALS	02/05/19 BRAJ-7 02/05/19 LENG-17 02/05/19 LENG-18 02/05/19 LENG-19 02/05/19 LENG-20 02/05/19 LENG-21 02/05/19 BRAJ-8 02/05/19 BRAJ-9 02/05/19 BRAJ-10			2471 2466 2467 2468 2469 2470 2472 2473 2474	W W W W W W W W W	02/25/19 02/25/19 02/25/19 02/25/19 02/25/19 02/25/19 02/25/19 02/25/19 02/25/19	520620 520620 530100 530100 520620 521195 520620 520975 520975	EMPLOYEE EDUCATION EMPLOYEE EDUCATION OFFICE EXPENSES OFFICE EXPENSES EMPLOYEE EDUCATION TELECOMMUNICATIONS EMPLOYEE EDUCATION MAINTENANCE-EQUIPMENT MAINTENANCE-EQUIPMENT	79.00 250.00 177.22 24.12 160.00 285.93 510.00 57.69 270.30
1160 CHICAGO METROPOLITAN FIRE PREVENTION CO. 20087 INVOICE: IN00300088 20088 INVOICE: IN00300089 VENDOR TOTALS	02/13/19 IN00300088 02/13/19 IN00300089			958024 958024	P P	02/27/19 02/27/19	520981 520981	ELECTRONICS CONTRACTUAL ELECTRONICS CONTRACTUAL	190.00 190.00
1248 B&W CONTROL SYSTEMS INTEGRATION LLC VENDOR TOTALS				1,004.00	YTD INVOICED		1,004.00	YTD PAID	380.00

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VENDOR NAME DOCUMENT	INV DATE VOUCHER PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
20119 INVOICE: 204641	02/21/19 204641	958040	P	02/28/19	270	520981	5,000.00
VENDOR TOTALS	16,412.23	YTD INVOICED				16,412.23	YTD PAID
1138 CONSTELLATION ENERGY SERVICES INC							
20089 INVOICE: 2528290	02/14/19 2528290	958025	P	02/27/19	270	521202	5,000.00
20089 INVOICE: 2528290	02/14/19 2528290	958025	P	02/27/19	270-1	521202	6,641.60
20089 INVOICE: 2528290	02/14/19 2528290	958025	P	02/27/19	270	521204	500.69
VENDOR TOTALS	17,436.00	YTD INVOICED				17,436.00	YTD PAID
1295 FLUID POWER CONTROLS							
20090 INVOICE: 33736	02/13/19 33736	958026	P	02/27/19	270	520975	7,469.07
VENDOR TOTALS	448.88	YTD INVOICED				448.88	YTD PAID
94 FEDERAL EXPRESS CORPORATION							
20118 INVOICE: 1-788-02543	02/21/19 1-788-02543	958027	P	02/27/19	270	530100	448.88
VENDOR TOTALS	11.90	YTD INVOICED				11.90	YTD PAID
293 VILLAGE OF GLEN ELLYN							
1013163 INVOICE: IFT-172	02/22/19 IFT-172	2465	W	02/25/19	270	521130	11.90
1013163 INVOICE: IFT-172	02/22/19 IFT-172	2465	W	02/25/19	270	520976	10,977.17
VENDOR TOTALS	45,184.80	YTD INVOICED				45,184.80	YTD PAID
1264 LAWSON PRODUCTS INC							
20091 INVOICE: 9306485534	02/12/19 9306485534	958028	P	02/27/19	270	520975	14,035.50
VENDOR TOTALS	830.94	YTD INVOICED				830.94	YTD PAID
157 LEN'S ACE HARDWARE, INC.							
20092 INVOICE: 88500-3	02/04/19 88500-3	958029	P	02/27/19	270	530107	88.89
20093 INVOICE: 88504-3	02/04/19 88504-3	958029	P	02/27/19	270	520975	25.57
20094 INVOICE: 88555-3	02/07/19 88555-3	958029	P	02/27/19	270	520975	12.78
20095 INVOICE: 88641-3	02/12/19 88641-3	958029	P	02/27/19	270	520990	63.74
20096 INVOICE: 02/15/19	02/15/19	958029	P	02/27/19	270	520990	11.19
VENDOR TOTALS							31.98

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Appendix 24

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TO FISCAL 2019/03 01/01/2019 TO 12/31/2019

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

VENDOR TOTALS	1,971.65	YTD	INVOICED	1,971.65	YTD	PAID
						915 60

873 THE PITNEY BOWES BANK, INC	958036 P	02/27/19	270	530100	OFFICE EXPENSES	150.00
20103	02/05/19					
INVOICE: 20103						

VENDOR TOTALS	202-01	YTD INVOICED	202-01	YTD PAID	150.00
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952 PROGRAM ONE PROFESSIONAL BUILDING SERVICES INC.			
20104	02/14/19	958037 P 02/27/19 270	520971
INVOICE: 120144			
		BUILDING & GROUNDS CONTRA	210.00

VENDOR TOTALS	210.00	YTD INVOICED	210.00	YTD PAID	210.00
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VENDOR TOTALS	926.74	YTD INVOICED	926.74	YTD PAID	330.43
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464 STRAND ASSOCIATES, INC.							
20111	02/13/19	958039 P	02/27/19	40	580150	PLANT EQUIPMENT REHABILIT	7,844.54
INVOICE:	146121						
20112	02/14/19	958039 P	02/27/19	40	580180	ELECTRIC SVC DISTRIB SYS	13,272.31
INVOICE:	146262						

VENDOR TOTALS	73,896.19	YTD INVOICED	73,896.19	YTD PAID
27	115	01		

988 VERIZON WIRELESS SERVICES LLC					
20120	02/18/19				
INVOICE: 9824445872					
958041 P	02/28/19	270	521195	TELECOMMUNICATIONS	441.37

VENDOR TOTALS	1,780.83	YTD INVOICED	1,780.83	YTD PAID	441.77
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78 490 22

REPORT TOTALS

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	21	60,385.46

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VENDOR	NAMB	DOCUN
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DOCUMENT**

INV DATE VOUCHER PO

CHECK NO T CHK DATE GL ACCOUNT

GL ACCOUNT DESCRIPTION

TOTAL WIRE TRANSFERS

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18,104.76

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TO FISCAL 2019/03 01/01/2019 TO 12/31/2019

VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
1296 ADVANCED WEIGHING SYSTEMS INC 20122 INVOICE: 25966	02/26/19			958042	P	03/15/19	270 530106	OPERATING SUPPLIES - LAB	245.00
VENDOR TOTALS		245.00	YTD INVOICED				245.00	YTD PAID	245.00
964 AIR SERVICES COMPANY 20123 INVOICE: 416990	03/06/19			958043	P	03/15/19	270 520975	MAINTENANCE-EQUIPMENT	457.12
VENDOR TOTALS		457.12	YTD INVOICED				457.12	YTD PAID	457.12
881 AIRGAS, INC 20124 INVOICE: 9500521664	03/02/19			958044	P	03/15/19	270 530443	LIQUID OXYGEN	8,150.48
20125 INVOICE: 9959945144	03/02/19			958044	P	03/15/19	270 520980	MAINTENANCE-ELECTRONICS	53.91
20126 INVOICE: 9086046092	03/02/19	20190002		958044	P	03/15/19	40 580180	CRYO VAPORIZOR RENTALS	1,500.00
20127 INVOICE: 9500521940	03/09/19			958044	P	03/15/19	270 530443	LIQUID OXYGEN	8,155.89
VENDOR TOTALS		78,199.05	YTD INVOICED				78,199.05	YTD PAID	17,860.28
218 PATTEN INDUSTRIES, INC. 20128 INVOICE: PM600279894	02/28/19			958045	P	03/15/19	270 520976	MAINTENANCE-CONTRACTUAL	1,667.67
VENDOR TOTALS		8,016.57	YTD INVOICED				8,016.57	YTD PAID	1,667.67
859 ANALYTICAL SOLUTION, INC 20129 INVOICE: 12004789	02/26/19			958046	P	03/15/19	270 520806	PROFESSIONAL SERVICES-LAB	560.00
VENDOR TOTALS		1,120.00	YTD INVOICED				1,120.00	YTD PAID	560.00
1117 ANCO STEEL COMPANY INC 20130 INVOICE: 281486	03/08/19			958047	P	03/15/19	270 520975	MAINTENANCE-EQUIPMENT	604.96
VENDOR TOTALS		604.96	YTD INVOICED				604.96	YTD PAID	604.96
819 UNITED COMMUNICATIONS 20132 INVOICE: 20132	03/15/19			958048	P	03/15/19	270 521195	TELECOMMUNICATIONS	1,586.82
VENDOR TOTALS		3,943.43	YTD INVOICED				3,943.43	YTD PAID	1,586.82
1160 CHICAGO METROPOLITAN FIRE PREVENTION CO. 20133 INVOICE: IN00300800	02/28/19			958049	P	03/15/19	270 520980	MAINTENANCE-ELECTRONICS	453.00

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

VENDOR TOTALS				1,004.00	YTD	INVOICED	1,004.00	YTD PAID	453.00
47 CINTAS CORPORATION #769 20134 02/26/19 INVOICE: 769573553				958050	P	03/15/19	270	520971	BUILDING & GROUNDS CONTRA 142.70
VENDOR TOTALS				428.10	YTD	INVOICED	428.10	YTD PAID	142.70
768 CINTAS FIRST AID & SAFETY 20135 03/08/19 INVOICE: 8404057404				958051	P	03/15/19	270	530225	SAFETY RELATED EQUIPMT/S 306.39
VENDOR TOTALS				917.07	YTD	INVOICED	917.07	YTD PAID	306.39
644 CLC LUBRICANTS 20136 03/01/19 INVOICE: 88759				958052	P	03/15/19	270	520975	MAINTENANCE-EQUIPMENT 274.34
VENDOR TOTALS				274.34	YTD	INVOICED	274.34	YTD PAID	274.34
1218 COLLEY ELEVATOR CO. 20137 03/01/19 INVOICE: 181823				958053	P	03/15/19	270	520971	BUILDING & GROUNDS CONTRA 191.00
VENDOR TOTALS				574.00	YTD	INVOICED	574.00	YTD PAID	191.00
490 COMCAST CABLE COMMUNICATIONS, LLC 20138 02/25/19 INVOICE: 20138				958054	P	03/15/19	270	521195	TELECOMMUNICATIONS 204.58
VENDOR TOTALS				613.74	YTD	INVOICED	613.74	YTD PAID	204.58
505 CRESCENT ELECTRIC SUPPLY CO 20139 02/26/19 INVOICE: 5506186639.001				958055	P	03/15/19	270	520980	MAINTENANCE-ELECTRONICS 773.21
VENDOR TOTALS				773.21	YTD	INVOICED	773.21	YTD PAID	773.21
994 DIRECT ENERGY MARKETING, INC. 20140 03/05/19 INVOICE: 190640037636955				958056	P	03/15/19	270	521201	ELECTRIC POWER 42,692.97
20140 03/05/19 INVOICE: 190640037636955				958056	P	03/15/19	270-1	521201	ELECTRIC POWER 1,727.49
20140 03/05/19 INVOICE: 190640037636955				958056	P	03/15/19	270-2	521201	ELECTRIC POWER 1,656.64
20140 03/05/19 INVOICE: 190640037636955				958056	P	03/15/19	270-3	521201	ELECTRIC POWER 1,100.24
VENDOR TOTALS				149,490.43	YTD	INVOICED	149,490.43	YTD PAID	47,177.34

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VENDOR NAME DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
1297 ENRIGHT CHILDREN EDUCATION FUND 20141 INVOICE: 20141	03/12/19			958057	P	03/15/19	270 530100	OFFICE EXPENSES	60.00
VENDOR TOTALS			60.00	YTD INVOICED				60.00	YTD PAID 60.00
1209 ENVIRONMENTAL SAMPLING SUPPLY, INC. 20142 INVOICE: 85156830	02/28/19			958058	P	03/15/19	270 520990	OPERATIONS - SUPPLIES	120.00
VENDOR TOTALS			120.00	YTD INVOICED				120.00	YTD PAID 120.00
293 VILLAGE OF GLEN KILLYN 20179 INVOICE: 20179	03/01/19			958059	P	03/15/19	270 521203	WATER	963.21
20180 INVOICE: 20180	03/01/19			958059	P	03/15/19	270 521203	WATER	19.86
VENDOR TOTALS			45,184.80	YTD INVOICED				45,184.80	YTD PAID 983.07
828 GAYLE LENDABARKER 20191 INVOICE: 20191	03/12/19			958060	P	03/15/19	270 520600	DUES-SUBSCRIPTIONS-REG FE	170.00
20191 INVOICE: 20191	03/12/19			958060	P	03/15/19	270 530100	OFFICE EXPENSES	20.48
20191 INVOICE: 20191	03/12/19			958060	P	03/15/19	270 520975	MAINTENANCE-EQUIPMENT	5.00
20191 INVOICE: 20191	03/12/19			958060	P	03/15/19	270 530225	SAFETY RELATED EQUIPMENT/S	13.70
VENDOR TOTALS			209.18	YTD INVOICED				209.18	YTD PAID 209.18
1072 GOLDSTINE, SKRODZKI, RUSSIAN, NEMEC AND HOFF LTD. 20143 INVOICE: 145000	03/04/19			958061	P	03/15/19	270 520700	LEGAL-GENERAL COUNSEL	1,032.75
20144 INVOICE: 145001	03/04/19			958061	P	03/15/19	270 520700	LEGAL-GENERAL COUNSEL	51.00
VENDOR TOTALS			5,010.75	YTD INVOICED				5,010.75	YTD PAID 1,083.75
297 W.W. GRAINGER, INC. 20145 INVOICE: 9112444212	03/12/19			958062	P	03/15/19	270 520980	MAINTENANCE-ELECTRONICS	71.00
20187 INVOICE: 9114565865	03/13/19			958062	P	03/15/19	270 520970	MAINTENANCE-BUILDING & GR	208.50
VENDOR TOTALS			2,303.02	YTD INVOICED				2,303.02	YTD PAID 279.50
743 GROOT, INC 20146 INVOICE: 3062210	03/01/19			958063	P	03/15/19	270 520991	OPERATIONS - CONTRACTUAL	254.98

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

VENDOR TOTALS	804.94	YTD INVOICED			804.94	YTD PAID	254.98	
119 HACH COMPANY 20147 INVOICE: 11367328	03/05/19 11367328	958064	P	03/15/19	270	530106	OPERATING SUPPLIES - LAB	164.75
VENDOR TOTALS	474.22	YTD INVOICED			474.22	YTD PAID	164.75	
124 HOME DEPOT USA, INC 20182 INVOICE: 2511904	03/12/19 2511904	958065	P	03/15/19	270	520990	OPERATIONS - SUPPLIES	76.64
20183 INVOICE: 3070267	01/30/19 3070267	958065	P	03/15/19	270	520975	MAINTENANCE-EQUIPMENT	163.79
20185 INVOICE: 7061060	01/16/19 7061060	958065	P	03/15/19	270	520975	MAINTENANCE-EQUIPMENT	75.11
VENDOR TOTALS	553.03	YTD INVOICED			553.03	YTD PAID	315.54	
1147 ILLINOIS AMERICAN WATER COMPANY 20148 INVOICE: 20148	02/25/19 20148	958066	P	03/15/19	270-3	521203	WATER	127.34
VENDOR TOTALS	378.81	YTD INVOICED			378.81	YTD PAID	127.34	
185 KONICA MINOLTA BUSINESS SOLUTIONS INC 20150 INVOICE: 9005445061	02/25/19 9005445061	958067	P	03/15/19	270	530100	OFFICE EXPENSES	63.55
VENDOR TOTALS	224.05	YTD INVOICED			224.05	YTD PAID	63.55	
1264 LAWSON PRODUCTS INC 20151 INVOICE: 9306520538	02/26/19 9306520538	958068	P	03/15/19	270	520975	MAINTENANCE-EQUIPMENT	71.36
VENDOR TOTALS	830.94	YTD INVOICED			830.94	YTD PAID	71.36	
1189 LEAHY-WOLF COMPANY 20152 INVOICE: 380788	03/04/19 380788	958069	P	03/15/19	270	520975	MAINTENANCE-EQUIPMENT	895.00
VENDOR TOTALS	1,790.00	YTD INVOICED			1,790.00	YTD PAID	895.00	
171 MCMASTER-CARR SUPPLY CO. 20153 INVOICE: 87671268	02/26/19 87671268	958070	P	03/15/19	270	520975	MAINTENANCE-EQUIPMENT	135.81
VENDOR TOTALS	1,832.60	YTD INVOICED			1,832.60	YTD PAID	135.81	
1223 CAPITAL ONE NATIONAL ASSN 20154	02/28/19	958071	P	03/15/19	270	520975	MAINTENANCE-EQUIPMENT	30.98

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

INVOICE: 317505919068572						
VENDOR TOTALS	370.66	YTD INVOICED			370.66	YTD PAID 30.98
178 MICHAEL'S UNIFORM COMPANY, INC. 20155 02/27/19 INVOICE: 90665	958072	P 03/15/19	270		530445	UNIFORMS 41.58
VENDOR TOTALS	527.67	YTD INVOICED			527.67	YTD PAID 41.58
188 MOTION INDUSTRIES INC 20156 03/11/19 INVOICE: IL10-656469	958073	P 03/15/19	270		520975	MAINTENANCE-EQUIPMENT 17.78
VENDOR TOTALS	17.78	YTD INVOICED			17.78	YTD PAID 17.78
190 SID TOOL CO, INC 20157 03/08/19 INVOICE: 69177220	958074	P 03/15/19	270		520975	MAINTENANCE-EQUIPMENT 495.12
VENDOR TOTALS	1,130.10	YTD INVOICED			1,130.10	YTD PAID 495.12
201 NEWARK CORPORATION 20158 02/26/19 INVOICE: 31323025	958075	P 03/15/19	270		520980	MAINTENANCE-ELECTRONICS 309.98
VENDOR TOTALS	309.98	YTD INVOICED			309.98	YTD PAID 309.98
209 NCL OF WISCONSIN INC 20159 03/06/19 INVOICE: 420045	958076	P 03/15/19	270		530106	OPERATING SUPPLIES - LAB 224.84
VENDOR TOTALS	1,971.65	YTD INVOICED			1,971.65	YTD PAID 224.84
412 NESTLE WATERS NORTH AMERICA 20160 03/06/19 INVOICE: 19C8100616302	958078	P 03/15/19	270		530100	OFFICE EXPENSES 136.82
VENDOR TOTALS	340.53	YTD INVOICED			340.53	YTD PAID 136.82
180 RELADYNE -MID-TOWN PETROLEUM INC. 20161 03/04/19 INVOICE: 1194269-IN	958079	P 03/15/19	270		520975	MAINTENANCE-EQUIPMENT 963.88
VENDOR TOTALS	1,927.76	YTD INVOICED			1,927.76	YTD PAID 963.88
1070 REVERE ELECTRIC SUPPLY 20162 02/15/19 INVOICE: S3795829.002	958080	P 03/15/19	270		520980	MAINTENANCE-ELECTRONICS 71.26
20163 02/15/19 INVOICE: S3795829.001	958080	P 03/15/19	270		520980	MAINTENANCE-ELECTRONICS 74.39

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VENDOR NAME	DOCUMENT	INV DATE	VOUCHER	PO	CHECK NO.	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION		
20164	INVOICE:	02/22/19			958080	P	03/15/19	270	520980	MAINTENANCE-ELECTRONICS	286.56
20165	INVOICE:	02/27/19			958080	P	03/15/19	270	520980	MAINTENANCE-ELECTRONICS	71.32
	INVOICE:	S3799331.001									
VENDOR TOTALS				503.53	YTD INVOICED				503.53	YTD PAID	503.53
1212 RUN GROUP, INC											
20166	INVOICE:	03/06/19		20190001	958081	P	03/15/19	270	520981	ELECTRONICS CONTRACTUAL	10,149.00
	INVOICE:	305026									
VENDOR TOTALS				30,447.00	YTD INVOICED				30,447.00	YTD PAID	10,149.00
939 STAPLES CONTRACT & COMMERCIAL INC.											
20167	INVOICE:	02/26/19			958082	P	03/15/19	270	530100	OFFICE EXPENSES	77.96
	INVOICE:	3407077333									
VENDOR TOTALS				926.74	YTD INVOICED				926.74	YTD PAID	77.96
738 SUBURBAN LABORATORIES, INC.											
20168	INVOICE:	12/19/18			958083	P	03/15/19	270	520806	PROFESSIONAL SERVICES-LAB	400.00
	INVOICE:	161537			958083	P	03/15/19	270	520806	PROFESSIONAL SERVICES-LAB	350.00
20169	INVOICE:	02/26/19			958083	P	03/15/19	270	520806	PROFESSIONAL SERVICES-LAB	130.00
20170	INVOICE:	03/01/19			958083	P	03/15/19	270	520806	PROFESSIONAL SERVICES-LAB	323.00
	INVOICE:	163460			958083	P	03/15/19	270	520806	PROFESSIONAL SERVICES-LAB	418.00
20171	INVOICE:	02/28/19			958083	P	03/15/19	270	520806	PROFESSIONAL SERVICES-LAB	605.00
	INVOICE:	163440			958083	P	03/15/19	270	520806	PROFESSIONAL SERVICES-LAB	
20172	INVOICE:	03/06/19			958083	P	03/15/19	270	520806	PROFESSIONAL SERVICES-LAB	
	INVOICE:	163519			958083	P	03/15/19	270	520806	PROFESSIONAL SERVICES-LAB	
20173	INVOICE:	03/08/19			958083	P	03/15/19	270	520806	PROFESSIONAL SERVICES-LAB	
	INVOICE:	163572			958083	P	03/15/19	270	520806	PROFESSIONAL SERVICES-LAB	
VENDOR TOTALS				6,066.50	YTD INVOICED				6,066.50	YTD PAID	2,226.00
1271 SYNAGRO-WMT											
20189	INVOICE:	02/28/19			958084	P	03/15/19	270	521150	SLUDGE DISPOSAL - LAND	15,428.00
	INVOICE:	20-134306									
VENDOR TOTALS				46,284.00	YTD INVOICED				46,284.00	YTD PAID	15,428.00
271 TERRACE SUPPLY COMPANY											
20174	INVOICE:	02/28/19			958085	P	03/15/19	270	520975	MAINTENANCE-EQUIPMENT	54.00
	INVOICE:	70434133			958085	P	03/15/19	270	520975	MAINTENANCE-EQUIPMENT	36.00
20175	INVOICE:	03/11/19			958085	P	03/15/19	270	520975	MAINTENANCE-EQUIPMENT	
	INVOICE:	70435225			958085	P	03/15/19	270	520975	MAINTENANCE-EQUIPMENT	
VENDOR TOTALS				522.65	YTD INVOICED				522.65	YTD PAID	90.00
477 UNITED PARCEL SERVICE, INC											
20177	INVOICE:	02/23/19			958086	P	03/15/19	270	530100	OFFICE EXPENSES	4.39

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VENDOR NAME
DOCUMENT

INV DATE VOUCHER PO

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GL ACCOUNT DESCRIPTION

INVOICE: 9YF103089-B

VENDOR TOTALS

86.90 YTD INVOICED

86.90 YTD PAID

4.39

988 VERIZON WIRELESS SERVICES LLC

20176 03/01/19

958087 P 03/15/19 270

521195

TELECOMMUNICATIONS

228.30

INVOICE: 9825301004

VENDOR TOTALS

1,780.83 YTD INVOICED

1,780.83 YTD PAID

228.30

REPORT TOTALS

108,196.40

COUNT

AMOUNT

TOTAL PRINTED CHECKS

45

108,196.40

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VENDOR NAME DOCUMENT	INV DATE VOUCHER PO	CHECK NO	T	CHK DATE	GL ACCOUNT	GL ACCOUNT DESCRIPTION	
881 AIRGAS, INC 20200 INVOICE: 9500522145	03/16/19 9500522145	958088	P	03/29/19	270	530443	LIQUID OXYGEN
VENDOR TOTALS	78,199.05 YTD INVOICED					78,199.05 YTD PAID	5,283.05
976 MERCURY PARTNERS 90 BL, INC 20203 INVOICE: 141517	03/14/19 141517	958089	P	03/29/19	40	580140	INFRASTRUCTURE UPGRADES
VENDOR TOTALS	18,630.00 YTD INVOICED					18,630.00 YTD PAID	18,080.00
1268 JP MORGAN CHASE NA 190699 INVOICE: BRAJ-11	03/05/19 BRAJ-11	2478	W	03/19/19	270	520975	MAINTENANCE-EQUIPMENT
194657 INVOICE: LENG-22	03/05/19 LENG-22	2480	W	03/19/19	270	530100	OFFICE EXPENSES
194666 INVOICE: FRER-8	03/05/19 FRER-8	2484	W	03/19/19	270	520980	MAINTENANCE-ELECTRONICS
194674 INVOICE: STRM-4	03/05/19 STRM-4	2485	W	03/19/19	270	520620	EMPLOYEE EDUCATION
20193 INVOICE: BRAJ-12	03/05/19 BRAJ-12	2479	W	03/19/19	270	520975	MAINTENANCE-EQUIPMENT
20194 INVOICE: LENG-23	03/05/19 LENG-23	2481	W	03/19/19	270	520620	EMPLOYEE EDUCATION
20195 INVOICE: LENG-24	03/05/19 LENG-24	2482	W	03/19/19	270	520600	DUES-SUBSCRIPTIONS-REG FE
20196 INVOICE: LENG-25	03/05/19 LENG-25	2483	W	03/19/19	270	520600	DUES-SUBSCRIPTIONS-REG FE
20197 INVOICE: STRM-5	03/05/19 STRM-5	2486	W	03/19/19	270	520620	EMPLOYEE EDUCATION
20198 INVOICE: LENG-26	03/05/19 LENG-26	2487	W	03/19/19	270	521195	TELECOMMUNICATIONS
20199 INVOICE: LENG-27	03/05/19 LENG-27	2488	W	03/19/19	270	520620	EMPLOYEE EDUCATION
VENDOR TOTALS	5,330.86 YTD INVOICED					5,330.86 YTD PAID	2,059.71
293 VILLAGE OF GLEN ELLYN 1013164 INVOICE: IFT-173	03/19/19 IFT-173	2477	W	03/19/19	270	521130	OVERHEAD FEES
1013164 INVOICE: IFT-173	03/19/19 IFT-173	2477	W	03/19/19	270	520976	MAINTENANCE-CONTRACTUAL
VENDOR TOTALS	45,184.80 YTD INVOICED					45,184.80 YTD PAID	14,035.50
1178 GOVCONNECTION, INC 20204 INVOICE: 56610955	03/11/19 56610955	958090	P	03/29/19	40	580120	SMALL CAPITAL PROJECTS

1,761.82

SECTION 5.4

**MANHOLE INSPECTION
CONTRACT AWARD – RJN
GROUP, INC.**

MEMORANDUM

TO: Executive Oversight Committee

FROM: Matt Streicher, P.E. BCEE

DATE: April 11, 2019

RE: RJN Proposal for Professional Engineering Services for Manhole Mapping, Scanning, and Recommendations



In late 2018, GWA's Director and Assistant Director met with the Village of Lombard and RJN Group in regards to performing manhole inspections. This activity somewhat relates to the sewer inspection work that GWA and Lombard performed a joint request for competitive proposals for in early 2018, in which Red Zone Robotics was awarded the contract for both GWA and Lombard's work. Since the sewers have been inspected, it makes sense to also inspect the manhole structures, as they go hand in hand. GWA has never done extensive inspection of its structures, which are all approaching nearly 40 years old. GWA benefited from the Village of Lombard doing research and determining that besides the existing good relationship the Village has with RJN (which GWA also has), RJN is the only professional service provider that could meet the specifications for the type of inspections both ourselves and Lombard would require. Essentially, they are the only company with the type of technology that would be ideal for the remote locations of our manholes. RJN will be using the CleverScan technology, which allows for a thorough 3D analysis of manholes in the field, with the data collected being taken back to their office for further inspection and review. Unlike many other technologies that require vehicular access for the inspection, the CleverScan technology is equipped as a "backpack" unit, and therefore able to access many of GWA's manholes that are inaccessible to vehicles.

Therefore, based on RJN Group being the only provider of a specific type of technology, according to their professional services policy, Lombard was able waive the need to go out for official RFP's and requested a proposal from RJN for the manhole inspections. Since GWA shares a very similar professional services policy that was approved by the EOC, competitive bidding for this work is allowed to be waived, and GWA also requested a proposal to inspect all of our manholes. By jointing requesting proposals, both entities would also benefit from slightly lower pricing, due to economy of scale. Furthermore, due to the specific nature of this work, it would also be allowed to be waived under the Village of Glen Ellyn's purchasing policy, if it applied in this case.

The proposal given to GWA was in the form of a not to exceed amount of \$29,860. This proposal had been discussed and approved by the TAC at the January 24th TAC meeting. Therefore, GWA recommended the approval of this contract, but would need EOC approval level due to the dollar amount. In order to take advantage of the competitive pricing for both GWA and Lombard, an agreement was needed to be entered into during February, which would give RJN adequate time to prepare to perform the work for both entities. Since no February

EOC meeting occurred, request for approval was sent to the Village Managers, as well as the Glen Ellyn Finance Director.

On February 13, 2019, Village Manager Franz gave approval to proceed with the proposal, allowing GWA's Director to sign for it, and for it to be put on the next EOC agenda for retroactive approval.

GWA requests the waiver of bids and for the EOC give retroactive approval for the RJN Manhole Inspection Proposal in the not to exceed amount of **\$29,860**. This work will be charged towards Fund 40-580150, Plant Equipment Rehabilitation, which has \$100,000 budgeted for interceptor related inspection work.

AGREEMENT

BETWEEN

GLENBARD WASTEWATER AUTHORITY

AND

RJN GROUP, INC.
WHEATON, ILLINOIS

THIS AGREEMENT dated February 18, 2019 by and between the Glenbard Wastewater Authority, hereinafter called OWNER and RJN GROUP, INC., with an office in Wheaton, Illinois, hereinafter called ENGINEER.

WHEREAS, the OWNER desires to retain the professional services of the ENGINEER for a project generally described as Manhole Mapping, Scanning, and Recommendations.

WHEREAS, the ENGINEER desires to perform such services to the OWNER in accordance with the terms and conditions of the AGREEMENT.

NOW, THEREFORE, in consideration of the above recitals, the mutual promises and covenants hereinafter set forth, the parties hereto agree as follows:

Section I - Basic Services of ENGINEER

The specific services which the ENGINEER agrees to furnish are as indicated in the Attachment A, "Proposal for Professional Engineering Services, Manhole Mapping, Scanning, and Recommendations", page 3 "Proposed Scope of Services" which is hereby incorporated by reference and made part of this AGREEMENT. Changes in the indicated Scope of Services shall be subject to renegotiation and implemented through an Amendment of this AGREEMENT.

Section II - Future Services of ENGINEER

The ENGINEER is available to furnish and perform, under an Amendment or a separately negotiated agreement, future services to supplement this work.

Section III - Schedule of Services

A. Completion Time

For those services described in Section I, the ENGINEER shall make every reasonable effort to schedule manpower and service elements in a diligent manner. It is recognized by both parties that actions of regulatory agencies and/or others may affect the final project schedule.

The services described shall be performed as weather and other physical conditions permit. The ENGINEER shall not be liable to the OWNER, if delayed in, or prevented from performing the

AGREEMENT (Cont.)

work as specified herein through any cause or causes beyond the control of the ENGINEER and not caused by his own fault or negligence. Attachment A, page 3 "Schedule" is hereby incorporated by reference and made part of this AGREEMENT.

Section IV - Payment for Services

Payment to the ENGINEER shall be made as follows:

A. Payment for Services

The OWNER recognizes that time is of the essence with respect to payment of the ENGINEER's invoices, and that timely payment is a material part of the consideration of this AGREEMENT.

Payment for services rendered shall be made to the ENGINEER at the end of each month's billing cycle upon presentation of the ENGINEER's monthly statement. ENGINEER will provide to the OWNER a detailed statement of tasks by classification and reimbursement expenses. Total payment shall not exceed the forestated amounts without prior authorization by the OWNER.

OWNER shall pay invoices upon receipt. Invoices not paid within thirty (30) days of the invoice date shall be subject to a late payment fee of 1½ % per month from the date of invoice. Additionally, ENGINEER may, upon five (5) calendar days' notice to OWNER, suspend all Services until paid in full and may terminate the AGREEMENT.

If the OWNER objects to all or any portion of an invoice, the OWNER shall so notify the ENGINEER within ten (10) calendar days of the invoice date, identify the cause of disagreement, and pay when due that portion of the invoice, if any, not in dispute.

OWNER has the right to appeal or ask for clarification of any ENGINEER's billing within ten (10) days of date of billing. Until said appeal is resolved, or clarification is issued, no interest will accrue. The OWNER shall exercise reasonableness in contesting any invoice or portion thereof.

Section V - Services to be Provided by the OWNER

A. Authorization to Proceed

The OWNER shall authorize the ENGINEER to proceed prior to the ENGINEER starting work.

B. Access to Facilities and Property

The OWNER shall make its system facilities and properties available and accessible for inspection by ENGINEER and arrange for access to make all provisions for the ENGINEER to enter upon public property as required for the ENGINEER to perform his services.

AGREEMENT (Cont.)

C. Prompt Notice

The OWNER shall give prompt written notice to ENGINEER whenever OWNER observes or otherwise becomes aware of any development that affects the scope or timing of ENGINEER's services, or any defect in the service or work of the ENGINEER or Contractors in order that the ENGINEER may take prompt, effective measures, which in the ENGINEER's opinion, will minimize the consequences of a defect.

D. Compensation of a Cost Not to Exceed

For basic services, as enumerated in Section I, the OWNER shall pay the ENGINEER a maximum not to exceed cost of \$29,860.00. Payments as described hereinafter shall represent full compensation to the ENGINEER for all payroll costs, expenses, current overhead, profit, and all other costs in connection with the performance of these services. The ENGINEER, if requested, shall provide documentation to the OWNER of all costs in connection with the performance of these services, and as further described in Attachment A.

E. Changes of Scope

In the event additional services are required through changes in the scope of the Project, or other unusual or unforeseen circumstances are encountered, or for other consulting services, ENGINEER shall, upon written authorization by the OWNER, perform the additional services as mutually agreed by both parties by supplemental agreement. If renegotiated terms cannot be agreed to, the OWNER agrees that the ENGINEER has an absolute right to terminate the AGREEMENT.

F. Limitation of Engineer's Liability

OWNER hereby agrees that to the fullest extent permitted by law, ENGINEER's total liability to OWNER for any and all injuries, claims, losses, expenses or damages whatsoever arising from or in any way related to the project or this AGREEMENT from any cause or causes including but not limited to ENGINEER's negligence, errors, omissions, strict liability, breach of contract, or breach of warranty shall not exceed the total compensation received by ENGINEER under this AGREEMENT minus subconsultant and direct costs.

Section VI - Construction Cost and Opinions of Cost

- A. The ENGINEER shall submit to the OWNER an opinion of the probable cost required to construct work recommended, designed, or specified by the ENGINEER. The ENGINEER is not a construction cost estimator or construction contractor, nor should the ENGINEER's act of rendering an opinion of probable construction costs be considered equivalent to the nature and extent of service a construction cost estimator or construction contractor would provide. The ENGINEER's opinion will be based solely upon its own experience with construction. This requires the ENGINEER to make a number of assumptions as to actual conditions that will be encountered on site; the specific decisions of other design professionals engaged; the means and methods of construction the contractor will employ; the cost and extent of labor, equipment and materials the contractor will employ; contractor's techniques in determining prices and market conditions at the time, and other factors over which the ENGINEER has no control. Given the

AGREEMENT (Cont.)

assumptions which must be made, the ENGINEER cannot guarantee the accuracy of its opinions of cost, and, in recognition of that fact, the OWNER waives any claim against the ENGINEER relative to the accuracy of the ENGINEER's opinion of probable construction cost. If prior to the Bidding or Negotiation Phase, OWNER wishes greater assurance as to Total Project or Construction Costs, OWNER shall employ an independent cost estimator.

Section VII - General Considerations

A. Standard of Practice

Services performed by the ENGINEER under this AGREEMENT will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No other representation, expressed or implied, and no warranty or guarantee is included or intended in this AGREEMENT, or in any report, opinion, document or otherwise.

B. Survival

All obligations arising prior to the termination of this AGREEMENT and all provisions of this AGREEMENT allocating responsibility or liability between the OWNER and the ENGINEER shall survive the completion of the services hereunder and the termination of this AGREEMENT.

C. Ownership of Instruments of Service

All reports, plans, specifications, field data, field notes, laboratory test data, calculations, estimates and other documents prepared by the ENGINEER as instruments of service shall remain the property of the OWNER. The ENGINEER shall retain these records for a period of five (5) years following submission of his or her report, during which period they will be made available to the OWNER at all reasonable times.

If the OWNER wishes the ENGINEER to retain documents for a longer period of time, the OWNER shall so specify in advance, in writing, and shall pay in a timely manner all charges agreed to for the ENGINEER's maintenance of such documents beyond the time period otherwise prevailing.

D. Insurance

The ENGINEER shall procure and maintain insurance for the entire project period and a minimum period of three years thereafter, according to the following:

1. Workmen's Compensation Insurance in the statutory amount, including Employer's Liability Insurance for its employees.
2. Comprehensive General Liability Insurance, covering bodily injury and property damage with a combined single limit of \$1,000,000 per accident; Comprehensive Automobile Liability Insurance, including operation of owned, non-owned, and hired automobiles or vehicles, covering bodily injury with limits of \$1,000,000 per person and \$1,000,000 per accident; property damage with limits of \$100,000 per accident.

AGREEMENT (Cont.)

3. Professional Liability insurance of \$1,000,000 per occurrence and in the aggregate. ENGINEER shall be responsible for all damages to life and property due to his activities or those of his agents or employees in connection with his services, and it is expressly understood that ENGINEER shall indemnify and hold OWNER harmless from any claims, suits, action, damages, and cost to every name and description arising out of or resulting from the performance of services rendered by ENGINEER under this Agreement.
4. The premium to be expended for all of the above mentioned policies of insurance shall be paid by ENGINEER. The policies of insurance, certificates of insurance, and the insurance company or insurance companies issuing such policies or certificates of insurance must be acceptable to OWNER.
5. All certificates of insurance must be issued indicating that such policies of certificates are applicable to work being performed under a specific contract or to all work performed by ENGINEER for OWNER.
6. Certificates of Insurance shall be completed and submitted to OWNER before issuance of Notice-to-Proceed.
7. A minimum of 30 days written notification must be given of any alteration, material change, or cancellation affecting any certificates or policies of insurance as required under this Agreement. Such required notification must be sent via Registered or Certified Mail to the address indicated below:

Mr. Tom Romza, P.E., Assistant Director/Engineer, Glenbard Wastewater Authority,
945 Bemis Road, Glen Ellyn, Illinois 60137
8. The OWNER shall be named as an additional insured on the General Liability and Business Auto Liability insurance.

E. Certification

During the course of construction, the ENGINEER may be called upon to determine the degree to which certain design conditions have been achieved by contractors. In performance of this work, the ENGINEER will use sampling procedures, that is, selected portions of the work will be subject to close review and/or testing and the results observed will be inferred to exist in other areas not sampled. Although such sampling procedures shall be conducted by the ENGINEER in accordance with commonly accepted procedures consistent with applicable standards of practice, the OWNER understands that such procedures indicate actual conditions only where sampling is performed, and that, despite proper implementation of sampling and/or testing procedures, and despite proper interpretation of their results, the ENGINEER cannot assure the existence of conditions which the ENGINEER infers to exist. Since a certification that certain conditions exist comprises an assurance of such conditions' existence, the OWNER agrees that it would be improper for the ENGINEER to certify that certain conditions exist when the ENGINEER cannot assure they exist. Accordingly, the OWNER shall not require the ENGINEER to sign any certification, no matter by whom requested, that would result in the ENGINEER certifying the existence of conditions whose existence the ENGINEER cannot assure. The OWNER also agrees that the OWNER shall not make resolution of any dispute with the ENGINEER or payment of any amount due to the ENGINEER in any way contingent upon the ENGINEER's certifying the existence of conditions whose existence the ENGINEER cannot assure.

AGREEMENT (Cont.)

F. Buried Utilities and Subsurface Risks

The ENGINEER will conduct the research that in its professional opinion is necessary to locate utility lines and other man-made objects that may exist beneath the site's surface. The OWNER recognizes that the ENGINEER's research may not identify all subsurface utility lines and man-made objects, and that the information upon which the ENGINEER relies may contain errors or may not be complete. The ENGINEER will prepare a plan indicating the locations intended for subsurface penetrations with respect to assumed locations of utilities and other man-made objects beneath the site's surface.

The OWNER will approve the location of these penetrations prior to their being made and the OWNER will authorize the ENGINEER to proceed. The OWNER agrees to waive any claim against the ENGINEER and to defend, indemnify and hold the ENGINEER harmless from any claim or liability for injury or loss allegedly arising from the ENGINEER's damaging underground utilities or other man-made objects that were not called to the ENGINEER's attention or which were not properly located on plans furnished to the ENGINEER for any time spent or expenses incurred by the ENGINEER in defense of any such claim, in accordance with the ENGINEER's prevailing fee schedule and expense reimbursement policy.

The OWNER recognizes that special risks occur whenever engineering or related disciplines are applied to identify subsurface conditions. Even a comprehensive sampling and testing program, implemented with the appropriate equipment and experienced personnel under the direction of a trained professional who functions in accordance with a professional standard of practice may fail to detect certain conditions, because they are hidden and therefore cannot be considered in development of a subsurface exploration program. For similar reasons, actual environmental, geologic and geotechnical conditions that the ENGINEER properly inferred to exist between sampling points may differ significantly from those that actually exist. The passage of time also must be considered, and the OWNER recognizes that, because of natural occurrences or direct or indirect human intervention at the site or a distance from it, actual conditions discovered may quickly change. The OWNER realizes that nothing can be done to eliminate these risks altogether, but certain techniques can be applied to help reduce them. The ENGINEER is available to explain these risks and risk reduction methods to the OWNER but, in any event, the scope of services included with this AGREEMENT is that which the OWNER agreed to or selected in light of his or her own risk preferences and other considerations.

AGREEMENT (Cont.)

G. Reuse of Documents

All documents including Drawings and Specifications prepared or furnished by the ENGINEER (and ENGINEER's independent professional associates and consultants) pursuant to this AGREEMENT are instruments of service in respect of the Project and ENGINEER shall retain an interest therein whether or not the Project is completed. OWNER may make and retain copies for information and reference in connection with the use and occupancy of the Project or on any other project. Any reuse without written verification or adaptation by ENGINEER for the specific purpose intended will be at OWNER's sole risk and without liability or legal exposure to ENGINEER's independent professional associates or consultants, and OWNER shall indemnify and hold harmless ENGINEER and ENGINEER's independent professional associates and consultants from all claims, damages, losses and expenses including attorneys' fees arising from or resulting therefrom. Any such verification or adaptation will entitle ENGINEER to further compensation at rates to be agreed upon by OWNER and ENGINEER.

H. Termination of Services

This AGREEMENT may be terminated in whole or part in writing by either party in the event of substantial failure by the other party to fulfill its obligations under this AGREEMENT through no fault of the terminating party. Such termination may not be effected unless the other party is given not less than 10 days written notice (delivered by certified mail, return receipt requested) of intent to terminate and an opportunity for consultation with the terminating party and 10 days to cure such substantial failure.

Irrespective of which party shall effect termination or the cause therefore, the OWNER shall within forty-five (45) calendar days of termination remunerate the ENGINEER for services rendered and costs incurred, in accordance with the ENGINEER's prevailing fee schedule and expense reimbursement policy. Service shall include those rendered to the time of termination, as well as those associated with termination itself, such as demobilizing, modifying schedules, reassigning personnel, and so on. Costs shall include those incurred to the time of termination, as well as those associated with termination and post-termination activities. Such costs shall not include payments to third parties engaged by the ENGINEER for services not yet performed. The OWNER may terminate this AGREEMENT with or without cause or reason. Upon receipt of a notice of termination from OWNER, the ENGINEER shall promptly discontinue all services affected (unless the notice directs otherwise) and deliver or otherwise make available to the OWNER (subject to "Reuse of Documents" provisions) all data, drawings, specifications, reports, estimates, summaries, and other information and materials accumulated by the ENGINEER in performing this AGREEMENT, whether completed or in progress.

I. Controlling Law and Disputes

If any of the provisions of this AGREEMENT are invalid under any applicable statute or rule of law, they are, to that extent, deemed omitted. However, the OWNER and the ENGINEER will in good faith attempt to replace an invalid or unenforceable provision with one that is valid and enforceable, and which comes as close as possible to expressing or achieving the intent of the original provision. This AGREEMENT shall be governed by the laws of the State of Illinois, DuPage County.

AGREEMENT (Cont.)

The parties agree that they shall reasonably attempt to resolve any disputes regarding the interpretation of this AGREEMENT by informal negotiation, the final resolution of which disputes shall require the agreement of both parties.

J. Successors and Assigns

The OWNER and the ENGINEER each binds itself and its partners, successors, executors, administrators, assigns and legal representatives to the other party to this AGREEMENT and to the partners, successors, executors, administrators, assigns and legal representatives of such other party, in respect to all covenants, agreements, and obligations of this AGREEMENT.

Neither the OWNER nor the ENGINEER shall assign, sublet or transfer any rights under or interest in (including, but without limitation, moneys that may become due or moneys that are due) this AGREEMENT without the written consent of the other. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assigner from any duty or responsibility under this AGREEMENT. Nothing contained in this paragraph shall prevent the ENGINEER from employing such independent consultants, associates, and subcontractors as it may deem appropriate to assist it in the performance of services hereunder.

The ENGINEER's use of others for additional services shall not be unreasonably restricted by the OWNER provided the ENGINEER notifies the OWNER in advance. Nothing herein shall be construed to give any rights or benefits hereunder to anyone other than the OWNER and the ENGINEER, and all duties and responsibilities undertaken herein will be for the sole and exclusive benefit of the OWNER and the ENGINEER and not for the benefit of any other party.

K. Dispute Resolution

All claims, disputes or controversies arising from, or in relation to, the interpretation, application or enforcement of this AGREEMENT shall be decided through mediation or arbitration whichever is mutually agreed upon by OWNER and ENGINEER.

AGREEMENT (Cont.)

IN WITNESS THEREOF, the parties hereto have caused this AGREEMENT to be executed this 20th
day of February, 20 19.

For the OWNER:



Name

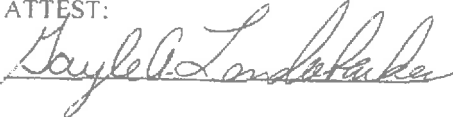
Matt Streicher

Printed

Executive Director

Title

ATTEST:



For the ENGINEER:

RJN GROUP, INC.



Name

Michael N. Young

Printed

Senior Vice President

Title

Attachment A - Proposal for Professional Engineering Services, Manhole Mapping, Scanning, and Recommendations

Doc #



January 21, 2019

Mr. Tom Romza, P.E.
Assistant Director/Engineer
Glenbard Wastewater Authority
945 Bemis Road
Glen Ellyn, Illinois 60137

**SUBJECT: PROPOSAL FOR PROFESSIONAL ENGINEERING SERVICES
MANHOLE MAPPING, SCANNING, AND RECOMMENDATIONS**

Dear Mr. Romza:

RJN Group, Inc. (RJN) is pleased to submit this proposal to the Glenbard Wastewater Authority (Authority, GWA) for the mapping, inspections, scanning, and data analysis of manholes in the Authority's interceptor sewer system.

PROJECT UNDERSTANDING AND APPROACH

The Authority is in the process of completing internal pipe inspections throughout its interceptor sewer system. To compliment these inspections, the Authority would like to have the manholes thoroughly inspected and scanned. RJN owns multiple CleverScan units to complete this work. The Authority is hoping to work in collaboration with the Village of Lombard and have a number of manholes inspected at the same time.

This project will provide CleverScan scans, detailed inspection reports, sub-centimeter GPS survey, and provide recommendations for rehabilitation, as necessary. The manholes to be inspected include all Glenbard's structures. Approximately 104 structures will be inspected. Should scans not be able to be completed on a certain structure, full descent inspections will be completed.

A manhole inspection program can provide many benefits to the Authority including mapping updates, identification of inflow and infiltration, confirmation of connecting pipes, detection of structural problems in need of rehabilitation, and photographs and scans of the structures.

GPS SURVEY

RJN will use sub-centimeter GPS survey units to collect accurate x, y, and z coordinates for each structure. This accurate location will allow for accurate placement on the Authority GIS maps and provide an accurate baseline elevation for use in assigning accurate invert pipe elevations to connecting pipes for use in hydraulic models and assessments.

It is expected that the GPS survey will be completed on all located structures where a GPS point can

be collected. Generally, the government broadcasts the GPS signal with 95% probability. If GPS unit signal encounters interferences such as atmospheric conditions, signal blockage such as building reflectivity issues, etc. prohibiting sub-centimeter reading, then the GPS data for the structure will not be collected. A mapping grade location is included in the inspections below.

MANHOLE SCAN INSPECTION

A manhole scan is one of the newest methods of inspecting manholes. This method provides a 360-degree digital photographic scan of the structure so that any defects can be more accurately, safely, and easily identified in the office rather than in the manhole. The Authority has chosen to use this method as the default manhole inspection method for this project. In addition to the scan itself, manhole defects are identified, manhole and pipe sizes and inverts will be measured, and photographs will be taken. (Note: Coding within the scan is excluded.)

It is expected that Manhole Scans will be completed on all located manhole structures. The CleverScan unit has a maximum depth limit of approximately 22 feet and is only effective in circular structures. In the event that the manhole scan is not possible, a full-descent inspection will be performed.

FULL-DESCENT INSPECTION

Full descent inspections are completed on very deep or complex structures where visibility is limited for Surface Inspections and a scan is not possible. Inspections include a confined space entry inspection of the manhole to identify frame and lid, wall, bench, and trough defects and other structural defects in the manhole. Manhole and pipe sizes and inverts will be measured and numerous photographs documenting the manhole condition.

As the Manhole Scans will be the primary inspection method, a full-descent inspection will only be completed when the manhole is too deep or has other reasons where a scan cannot be completed.

SURFACE INSPECTION

Surface inspections include an inspection of the manhole from the ground surface to identify frame and lid defects and other structural defects in the manhole. Manhole and pipe sizes and inverts will also be estimated where accessible in addition to numerous photographs documenting the manhole condition.

At this time, surface inspections are not expected to be completed on any structures. Should a manhole structure be unable to be scanned or entered for descent, a surface inspection will be completed.

PROPOSED SCOPE OF SERVICES

Complete approximately 104 manhole scans, inspections, and sub-centimeter GPS survey as per the attached scope of services.

1. Provide project management throughout the project including kickoff and closeout meetings, as necessary.
2. Summary memo outlining findings as per the attached scope of services and including:
 - a. Summary of work completed and the results from the manhole inspections;
 - b. Exhibits including maps of inspection locations and defects;
 - c. Recommendations for rehabilitation based on investigation results; and
 - d. Recommendations for future studies and/or rehabilitation construction packages.
3. Provide pdf of draft memo for Authority review.
4. Finalize report with Authority comments. Provide a digital copy of the final report with data, GIS geodatabases, digital scans, and photographs. Provide up to three hard copies of the final report, if desired.

ITEMS REQUESTED FROM AUTHORITY

We request the following items from the Authority:

1. Updated GIS geodatabases and/or shape files for the collection system.
2. Access to manholes for inspection work, including assistance in coordinating access from various landowners in easements and properties where the manholes are located. Assistance locating or opening seized/buried manholes as required.
3. Traffic control assistance as necessary for high traffic areas.

SCHEDULE

RJN is prepared to begin work on this project upon contract approval. Field work will be completed within 17 weeks of an agreement, weather permitting. Reporting and GIS deliverables will be completed within 6 weeks following field work completion.

PROPOSED FEE

This scope of services will be invoiced on a unit price and percent complete basis for a total cost of \$29,860.00. A \$2,000 project contingency (approximately 10%) is included should additional structures be found on the line, multiple inspections be required, or should the Authority identify additional structures to be inspected as a part of this project. This contingency can only be used with Authority permission. The fee is summarized in the following table.

FFR TABLE

Task	Unit Cost	Units	Quantity	Units	Total Cost
Sub-Centimeter GPS Survey	\$35	/MH	104	MH	\$3,640
Manhole Scans	\$180	/MH	104	MH	\$18,720
Full-Descent Manhole Inspections	\$150	/MH	0	MH	\$0
Surface Manhole Inspections	\$100	/MH	0	MH	\$0
Data Analysis and Reporting			\$3,300	lump sum	\$3,300
Project Management			\$2,200	lump sum	\$2,200
Project Contingency			\$2,000		\$2,000
TOTAL					\$29,860

It is our pleasure to submit this proposal to the Glenbard Wastewater Authority. Please feel free to contact Zach at (630) 818-6689 if you would like to discuss this proposal in detail. We are looking forward to the opportunity to continue working with the Authority on this important project.

Sincerely,

RJN Group, Inc.



Michael N. Young, P.E.
Vice President



Zachary J. Matyja, P.E.
Client Manager

Attachment – Standard Scope of Services

STANDARD SCOPE OF SERVICES MANHOLE INSPECTIONS

SUB-CENTIMETER GPS SURVEY

1. Collect a survey-grade (sub-centimeter) location of each structure, including x, y, and z coordinates. Incorporate this location point into the inspection data and GIS.

MANHOLE INSPECTION TYPES

- A. **SURFACE MANHOLE INSPECTIONS:** This inspection is performed from the top of the manhole without confined space entry and when good visibility to full structure is possible.
- B. **FULL-DESCENT MANHOLE INSPECTIONS:** This full-depth inspection is performed by confined space entry (when surface inspections are not sufficient), and includes additional photographs and assessment of the bench, trough, all pipe connections, and major defects.
- C. **MANHOLE SCANS (if included in proposal):** This full-depth inspection is performed by collecting a 360-degree digital photographic scan of the manhole to use for inspection data collection.

DATA COLLECTION FOR ALL MANHOLE INSPECTION TYPES

1. Provide equipment and personnel as necessary for manhole inspections.
2. Use handheld electronic data collection equipment for collecting manhole inspection data.
3. Complete manhole inspections as outlined. Collect the following attribute data, as able:
 - a. Mapping grade GPS location of the manhole;
 - b. Manhole diameter;
 - c. Manhole material;
 - d. Pipe invert measurements;
 - e. Connecting sewer diameter(s), material(s), and flow direction.
4. Identify and document manhole condition, including:
 - a. Direct evidence of I/I;
 - b. Open pickholes in lid;
 - c. Frame and adjusting ring condition, and
 - d. Cone, wall, bench, and trough condition and defects;
5. Take a minimum of four digital photographs at each manhole structure, including:
 - a. Surrounding area;
 - b. Manhole cover;
 - c. Top-side, looking down; and
 - d. Manhole frame.
6. Provide data analysis as follows:
 - a. Compile field data and develop complete list of defects; and
 - b. Incorporate results into GIS.

From: [Mark Franz](#)
To: [Matt Streicher](#); [Scott Niehaus](#)
Cc: [Julius Hansen](#); [Thomas Romza](#); [Christina Coyle](#)
Subject: RE: TAC Meeting/Approval Item
Date: Wednesday, February 13, 2019 5:21:42 PM
Attachments: [image001.png](#)

I confused myself with my earlier message, so allow me to clarify. Proceed ahead with manhole inspection proposal, and you can sign matt. Consider this my approval and the EOC can weigh in at the next meeting. No reason for concerns, since this has been bid out through Lombard.

Also, 2/27 at 1:30pm works for me.

Thanks.

Mark



From: Matt Streicher [mailto:mstreicher@gbww.org]
Sent: Wednesday, February 13, 2019 9:20 AM
To: Mark Franz; Scott Niehaus
Cc: Julius Hansen; Thomas Romza; Christina Coyle
Subject: RE: TAC Meeting/Approval Item

Although I haven't heard from any others, the consultant stated that February 27th in the afternoon would work for them, so please let me know your availability to meet then to discuss the Facility Plan. It sounds like this date/time works for both Mark and Julius. Scott/Carl? We can shoot for 1:30pm, or earlier/later, dependent on your preference.

Mark/Christina - Also, any further feedback regarding manhole inspection proposal? Julius I spoke about it again yesterday, and he is comfortable with the proposal, we just weren't sure if it could be approved before the next EOC meeting – or if we'd have to wait until then. I believe the Village of Lombard needs an indication as to whether or not we'll be able to approve it fairly soon.

Thanks,
Matt Streicher P.E., BCEE
Executive Director
Glenbard Wastewater Authority

SECTION 6.0

SEWER LINE TELEVISING CONTRACT AWARD – REDZONE ROBOTICS

MEMORANDUM

TO: Executive Oversight Committee
FROM: Tom Romza, P.E.
DATE: April 11, 2019
RE: **Request for Approval**
2019 Televising Contract



In March 2019 Authority staff sent out a request for qualifications and technical proposals for Large Diameter Sewer Inspection/Assessment. The due date for the proposals was March 29, 2019.

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, last year Authority staff requested proposals for a detailed analysis in conjunction with Lombard's similar request. Last year's proposal only included analysis of sewers 30 inches and larger, as failures in the larger diameter sewers have the potential to be more catastrophic. The remaining sewers the Authority are responsible for are to be televised with this year's request for proposals.

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 RedZone 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 RedZone Robotics the 2019 Large Diameter Sewer Inspection/Assessment Contract in the amount not to exceed **\$68,134.25**. This amount will be taken out of the designated amount in CY2019 Approved Budget, Fund 40 580150 Plant Equipment Rehabilitation, which is currently budgeted at \$100,000.

Small/Large Diameter Sewer Inspection/Assessment

Owner: Glenbard Wastewater Authority

Solicitor: Glenbard Wastewater Authority

03/29/2019 10:00 AM CDT

RFP Sent 03/04/2019

Line Item	Item Description	Units	Quantity	Engineer Est. Unit Price	Extension	RedZone Robotics Unit Price	Extension	Taplin Group Unit Price	Extension	NPR Corp Unit Price	Extension
1	MOBILIZATION/DE-MOBILIZATION TO PROJECT SITE	LS	1	\$ 2,500.00	\$ 2,500.00	\$ 3,000.00	\$ 3,000.00	\$ 21,259.93	\$ 21,259.93	\$ 10,000.00	\$ 10,000.00
2	8" SEWER INSPECTION	LF	2018	\$ 2.00	\$ 4,036.00	\$ 0.75	\$ 1,513.50	\$ 6.25	\$ 12,612.50	\$ 4.00	\$ 8,072.00
3	10" SEWER INSPECTION	LF	15	\$ 2.50	\$ 37.50	\$ 0.75	\$ 11.25	\$ 3.74	\$ 56.10	\$ 5.00	\$ 75.00
4	18" SEWER INSPECTION	LF	3975	\$ 3.00	\$ 11,925.00	\$ 2.50	\$ 9,937.50	\$ 3.74	\$ 14,866.50	\$ 2.00	\$ 7,950.00
5	24" SEWER INSPECTION	LF	2116	\$ 4.75	\$ 10,051.00	\$ 4.25	\$ 8,993.00	\$ 5.12	\$ 10,833.92	\$ 7.00	\$ 14,812.00
6	27" SEWER INSPECTION	LF	3339	\$ 4.75	\$ 15,860.25	\$ 4.25	\$ 14,190.75	\$ 5.16	\$ 17,229.24	\$ 7.00	\$ 23,373.00
7	30" SEWER INSPECTION	LF	2499	\$ 4.75	\$ 11,870.25	\$ 4.25	\$ 10,620.75	\$ 5.18	\$ 12,944.82	\$ 7.00	\$ 17,493.00
8	CCTV DATA COLLECTION/PROCESSING/ANALYSIS	LF	6008	\$ 0.25	\$ 1,502.00	\$ 0.25	\$ 1,502.00	\$ 0.02	\$ 120.16	\$ 1.00	\$ 6,008.00
9	SONAR DATA COLLECTION/PROCESSING/ANALYSIS	LF	7954	\$ 0.25	\$ 1,988.50	\$ 0.35	\$ 2,783.90	\$ 0.69	\$ 5,488.26	\$ 1.00	\$ 7,954.00
10	LASER DATA COLLECTION/PROCESSING/ANALYSIS	LF	7954	\$ 0.25	\$ 1,988.50	\$ 0.40	\$ 3,181.60	\$ 2.07	\$ 16,464.78	\$ 1.00	\$ 7,954.00
11	REPORT SUBMITTAL & SOFTWARE VIEWER	LS	1	\$ 75.00	\$ 75.00	\$ 75.00	\$ 75.00	\$ 585.00	\$ 585.00	\$ 5,000.00	\$ 5,000.00
12	REMOVAL & DEPOSIT OBSTRUCTION/DEBRIS IN SEWER	CU YD	100	\$ 75.00	\$ 7,500.00	\$ 75.00	\$ 7,500.00	\$ 434.94	\$ 43,494.00	\$ 25.00	\$ 2,500.00
13	TOPSOIL FURNISH & PLACE - 4" LANDSCAPE RESTORATION	SQ YD	100	\$ 10.00	\$ 1,000.00					\$ 5.00	\$ 500.00
14	SEEDING CLASS 1	SQ YD	100	\$ 10.00	\$ 1,000.00					\$ 5.00	\$ 500.00
15	EROSION CONTROL BLANKET	SQ YD	100	\$ 10.00	\$ 1,000.00					\$ 5.00	\$ 500.00
13	GIS DATA COLLECTION/PROCESSING	LS	1	\$ 500.00	\$ 500.00	\$ 2,400.00	\$ 2,400.00	\$ 2,167.41	\$ 2,167.41	\$ 5,000.00	\$ 5,000.00
14	LANDSCAPE RESTORATION	T&M	1	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ -	\$ -
Base Bid Total:					\$ 72,259.00		\$ 68,134.25		\$ 160,622.62		\$ 117,691.00

**GLENBARD WASTEWATER AUTHORITY
CONTRACT
LARGE DIAMETER SEWER INSPECTION/ASSESSMENT CONTRACT**

This agreement is made this 11th day of April, 2019, 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:

For work in the Glenbard Wastewater Authority, the proposed project is officially known as "GLENBARD WASTEWATER AUTHORITY SMALL/LARGE DIAMETER SEWER INSPECTION/ASSESSMENT". The project consists of inspection and assessment for the as-built condition of approximately 2,018 feet of 8-inch, 15 feet of 10-inch, 3,975 feet of 18-inch, 2,116 of 24-inch, 3,339 of 27-inch, and 2,499 of 30-inch diameter combined/sanitary sewers, together with removal of trash, sediment and debris within sewer pipelines and manholes as necessary to mobilize inspection. 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. 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 GLENBARD WASTEWATER AUTHORITY SMALL/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 March 6, 2019
 - viii) Addendum #2 dated March 11, 2019
 - ix) Addendum #3 dated March 20, 2019
 - b. The Contractor's Bid Proposal Dated: March 29, 2019
 - 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 11th day of April 2019.

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 _____ day of _____, 2019.

By _____ Position/Title _____

By _____ Position/Title _____

THE GLENBARD WASTEWATER AUTHORITY, ILLINOIS

Accepted this _____ day of _____, 2019.

Diane McGinley, 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 Philadelphia Insurance Companies, a corporation organized and existing under the laws of the State of Pennsylvania, 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 sixty eight thousand and one hundred thirty four dollars and twenty five cents (\$68,134.25) 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 April 11, 2019, for the construction of the work designated:

SMALL/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 _____, 2019.

GLENBARD WASTEWATER AUTHORITY

BY: _____
Diane McGinley, Chair Person

ATTEST:

Gayle Lendabarker, Administration

IN WITNESS WHEREOF, We have
executed the foregoing Obligation
this ____ day of _____,
2019

PRINCIPAL:

BY: _____

ATTEST:

SURETY: _____

BY: _____
(Title)

BY: _____
Attorney in Fact

BY: _____
(SEAL)

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)

GLENBARD WASTEWATER AUTHORITY SMALL/LARGE DIAMETER S 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 _____
day of _____, 2019.

Notary Public

SECTION 7.0

HIGH STRENGTH WASTE OPERATING PROCEDURE

MEMORANDUM

TO: Executive Oversight Committee

FROM: Matt Streicher, P.E. BCEE

DATE: April 11, 2019

RE: High Strength Waste Receiving Standard Operating Procedure
"Schedule A" Proposed Modifications



At the January 2019 EOC meeting the modification of the existing High Strength Waste (HSW) Receiving Standard Operating Procedures (SOP) was discussed. To summarize the modifications, attached is the package that was posted for public comment, and key points are as follows:

- The volume of available storage in Schedule A was revised based on actual conditions instead of theoretical conditions
 - o High Levels and Low Levels in the storage tanks were adjusted to reflect actual conditions due to pump limitations
- The digester feed pump rates in Schedule A were revised based on actual conditions instead of theoretical conditions
 - o The digester feed pump was not in place prior to the new SOP's, therefore theoretical pumping rates were determined using product data (although the pump was not new, it had been repurposed) and bench trials.
 - o The actual feed rate will not be changing, Schedule A will only be changed to reflect the actual feed rate based on actual observations.
- The calculations in Schedule A demonstrate that the Authorities digesters can actually hand more volume of HSW than they are currently being fed.
 - o The new calculations take into account most up to date data from current municipal sludge and the HSW that has been delivered
 - o Original Schedule A Calculations took into account very conservative values for the strength of HSW
 - o Conservative values are still being used for all thresholds indicating digester health
- All safeguards in the SOP's to prevent a digester upset will remain in place
- The Authority is not seeking to modify the SOP's, just the Schedule A calculations

The attached exhibits demonstrate the modifications that will be requested. Also attached is the SOP language that is *not* being proposed to change, this is simply provided for reference purposes. Prior to seeking actual approval from the EOC for the proposed modifications, the Authority required having a 45-day posting period for public comment, which occurred February 4, 2019 – March 21, 2019.

The Authority received very little public feedback, with the only comments being unrelated to the actual modifications being requested, and only one question. The comments received were simply put, “if odors are detected, we will call.” One resident asked how the modifications would affect truck traffic on Bemis. As described in the FAQ’s that were distributed to the residents, it is expected that potentially one more truck per day could be traveling on Bemis due to the modifications.

Therefore, seeing no objections from the Public, the Authority respectfully requests the EOC approve the modifications to the HSW SOP’s allowing the Authority to receive 20,000 gallons of HSW on a daily basis (M-F, 7am-4pm, no holidays).



Glenbard Wastewater Authority

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

February 4, 2019

Dear Neighbors and Community Members,

As many may recall, in June 2016 the Glenbard Wastewater Authority completed a \$5 Million Combined Heat and Power (CHP) project which allowed the Authority to recover some of the valuable resources that are contained within the wastewater we receive and treat. One of the main impacts of the project is that it allows the Authority to be greener by reusing resources in the wastewater instead of contributing to the creation of greenhouse gases, but it also allows the Authority to capitalize on lower energy costs and receive revenue. The revenue in turn is helping offset the \$5 Million cost of this project, and also can help the Authority budget for future capital projects that would normally increase user fees a faster pace. In August of 2017, the Authority's digestion process became upset due to improper co-digestion methods while accepting of high strength wastes (HSW) and fats, oils, and greases (FOG). HSW/FOG were being received from outside sources in order to help the CHP yield greater results. Therefore, due to the digester upset, a temporary moratorium was put on accepting HSW/FOG until the cause of the upset could be properly identified and analyzed.

At the April 2018 Executive Oversight Committee (EOC) meeting, the EOC approved the implementation of new HSW/FOG Receiving Standard Operating Procedures (SOP), and lifted the moratorium on the acceptance of the material. A couple of the main components of the new SOP's were that an additional pump was installed to allow for a steadier feed of HSW/FOG and limits were set on the volumes of HSW/FOG allowed to be received, and fed to the digestion process. In 2016 when the program was first initiated, there were not limitations set on the amount of HSW/FOG the Authority would accept or feed to the digestion system. The SOP's set restrictions on those amounts that were conservative in order to establish confidence in the program again. Accompanying the SOP's was a "Schedule A" that contained mathematical calculations that showed the appropriate amount of HSW/FOG waste the Authority could accept in the digesters based off of strengths of materials accepted, strength of existing municipal materials being fed to digesters, volumes of digester storage, and volumes of receiving storage. All calculations were performed conservatively, and some were performed based off assumptions, since at the time some parameters did not exist. Since their implementation, the SOP's have significantly improved the HSW/FOG program, and added many safeguards to the process. The SOP's have been being performed smoothly, with very few complaints from staff, and they have demonstrated their effectiveness.

Protecting the Environment for Tomorrow

With the continued success of the new program, haulers who had previously become weary of coming to the Authority due to a probability of being rejected, have now started to re-establish relationships. In the past couple of months, there were potential situations in which the Authority would have had to turn away haulers in order to not exceed the volumes allowed in the adopted SOP's, which would have been entirely unnecessary and could lead to steps backwards in our relationships with the haulers. In addition, the calculations demonstrate that a greater volume could be accepted, but it had been decided that the program start off slower. Therefore, since the program has been going well and no issues have arisen, the Authority is seeking to amend Schedule A of the SOP's to allow another step increase for a greater volume of HSW/FOG to be received per day. It is important to point out that although we are looking to increase the volume of HSW/FOG that we accept, we are still setting limitations on it, unlike when the program first started and there were none. Also, the feed rate to the digestion system, which has the most impact on the digester's health, is not being proposed to increase. Some key points are as follows:

- The volume of available storage in Schedule A was revised based on actual conditions instead of theoretical conditions
 - o High Levels and Low Levels in the storage tanks were adjusted to reflect actual conditions due to pump limitations
- The digester feed pump rates in Schedule A were revised based on actual conditions instead of theoretical conditions
 - o The digester feed pump was not in place prior to the new SOP's, therefore theoretical pumping rates were determined using product data (although the pump was not new, it had been repurposed) and bench trials.
 - o The actual feed rate will not be changing, Schedule A will only be changed to reflect the actual feed rate based on actual observations.
- The calculations in Schedule A demonstrate that the Authorities digesters can actually handle more volume of HSW/FOG than they are currently being fed.
 - o The new calculations take into account the most up to date data from current municipal sludge and the HSW/FOG that has been delivered
 - o Original Schedule A calculations took into account very conservative values for the strength of HSW/FOG
 - o Conservative values are still being used for all thresholds indicating digester health
- All safeguards in the SOP's to prevent a digester upset will remain in place
- The Authority is not seeking to modify the SOP's, just the Schedule A calculations

Attached are several exhibits that demonstrate the modifications that are being requested, along with a new set of "frequently asked questions." Also attached is the SOP language that is *not* being proposed to change, along with the original "Frequently Asked Questions" document. which are both being provided for reference purposes. As stated in the original SOP's, prior to seeking actual approval from the EOC for the proposed modifications, the Authority requires having a 45-day posting period for public comment.

Therefore, we invite you to review this material and provide any feedback or questions to the Authority. After the 45-day public posting period, Authority staff will present the EOC with a final version of the calculations based on any feedback received, and seek approval. The anticipated date the Authority will seek approval from the EOC is at the April 11, 2019 regularly scheduled meeting, which will be held at the Glenbard Wastewater Authority at 8am.

We appreciate your time and concern in the matter, and encourage you to contact us with any questions or requests for information. You may contact me directly at mstreicher@gbww.org, or 630-790-1901 x126.

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Streicher", with a long horizontal flourish extending to the right.

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

Revised/Proposed

Current Municipal Loading (March 2016 - December 2018)		
	Quantity	Units
Total Sludge Production	9,555	Pounds Total Solids (TS) per day
Volatile Solids (VS) Production	7,826	Pounds VS Per Day
Solids Concentration	3.0%	%
Flowrate to digester	39,647	Gallons Per Day
Percent VS	80.00%	%
Additional Allowable Digester Loading Rates (FOG)		
<i>Per the Manual of Practice No. 11 (MOP 11), Operations of Municipal Wastewater Treatment plants, a completely mixed anaerobic digester organic loading rate range is 100-400 Pounds of Volatile Solids Per 1,000 Cubic Feet Per Day (lb VS/kcf/d)</i>		
	Quantity	Unit
Allowable Organic Loading Rate	100	Pounds of VS Per Thousand Cubic Feet Per Day
VS Loading Capacity	19,491.98	Pounds VS Per Day
Additional Capacity for Digestion of HSW	11,666	Pounds VS Per Day
Allowable Additional Volume of HSW at		
% TS	26,390	Gallons Per Day
5.68%	93.32%	
Digester Statistics		
	Quantity	Unit
Total Volume to Primary Digesters Including HSW	66,037	Gallons Per Day
Digester Detention Time	22.08	Days
Combined Municipal and HSW VS% IN	85.33%	Percent
VS% OUT	59.00%	Percent
VS Reduction	75.25%	Percent
HSW/FOG Storage Tank Capacities		
	Quantity	Unit
Tank Number 1 (West Tank)	4,412	Cubic Feet
	32,999	Gallons
Tank Number 2 (East Tank)	968	Cubic Feet
	7,239	Gallons
Volume of Tanks Total	40,238	Gallons

Key Health Indicators
Revised Based Off Actual

Previous

Current Municipal Loading (March 2016 - June 2017)		
	Quantity	Units
Total Sludge Production	14,288	Pounds Total Solids (TS) per day
Volatile Solids (VS) Production	11,714	Pounds VS Per Day
Solids Concentration	2.7%	%
Flowrate to digester	59,287	Gallons Per Day
Percent VS	82.47%	%
Additional Allowable Digester Loading Rates (FOG)		
<i>Per the Manual of Practice No. 11 (MOP 11), Operations of Municipal Wastewater Treatment plants, a completely mixed anaerobic digester organic loading rate range is 100-400 Pounds of Volatile Solids Per 1,000 Cubic Feet Per Day (lb VS/kcf/d)</i>		
	Quantity	Unit
Allowable Organic Loading Rate	100	Pounds of VS Per Thousand Cubic Feet Per Day
VS Loading Capacity	19,492.00	Pounds VS Per Day
Additional Capacity for Digestion of HSW	7,778	Pounds VS Per Day
Allowable Additional Volume of HSW at		
% TS	12,143	Gallons Per Day
8.00%	96.00%	
Digester Statistics		
	Quantity	Unit
Total Volume to Primary Digesters Including HSW	71,430	Gallons Per Day
Digester Detention Time	20.44	Days
Combined Municipal and HSW VS% IN	85.33%	Percent
VS% OUT	59.00%	Percent
VS Reduction	51.79%	Percent
HSW/FOG Storage Tank Capacities		
	Quantity	Unit
Tank Number 1 (West Tank)	5,062	Cubic Feet
	37,664	Gallons
Tank Number 2 (East Tank)	1,101	Cubic Feet
	8,235	Gallons
Volume of Tanks Total	46,099	Gallons

Key Health Indicators
Estimated/Previous Conditions

(MOP 11 states no less than 10-15 Days)

(MOP 11 states normal range is 40%-60%)

Revised/Proposed							
Typical Daily Schedule							
	Monday	Tuesday	Wednesday	Thurs	Friday	Saturday	Sunday
HSW Volume Available to Start	40,238	35,838	31,438	27,038	22,638	18,238	33,838
HSW Volume Received into Holding Tanks*	20,000	20,000	20,000	20,000	20,000	0	0
HSW Volume Transferred to Digesters	15,600	15,600	15,600	15,600	15,600	15,600	15,600
Tank Volume Remaining in Holding Tanks**	35,838	31,438	27,038	22,638	18,238	33,838	40,238
* - Due to a typical HSW tanker being 5,000 gallons, volume added to holding tanks must be in 5,000 gallon increments							
** - If schedule is followed exactly, the holding tank would be emptied completely Sunday, resulting in the Total Volume Remaining to be the Total Available							
If excess volumes occur, deliveries will be halted or reduced for an appropriate amount of time in order to make storage available again.							

HSW Transfer To Digesters Pump Operation		
Pump Speed (Variable Drive Percent Loading)	Gallons Per Minute	
5%	3-9	Due to HSW (especially FOG) being prone to creating blockages in the pipe, in order to allow for higher scouring velocities, the pump will be cycled on/off on an hourly basis HSW Transfer Pump Shall Operate at 100% (~130 gpm) for 5 minutes every hour of the day (Total Volume Transfer = 15,600 gallons per day)
10%	18-20	
15%	25-35	
25%	42-47	
50%	88	
75%	88	
85%	90-110	
100%	130-145	

Revised Based Off Actual Conditions
Actual Volume Available Decreased by 12.7%
Actual Pump Speed Increased by 25%
Proposed
Increase Volume Received by 33%
Increase Volume Transferred by 44%

Previous							
Typical Daily Schedule							
	Monday	Tuesday	Wednesday	Thurs	Friday	Saturday	Sunday
HSW Volume Available to Start	46,103	41,903	37,703	33,503	29,303	25,103	35,903
HSW Volume Received into Holding Tanks*	15,000	15,000	15,000	15,000	15,000	0	0
HSW Volume Transferred to Digesters	10,800	10,800	10,800	10,800	10,800	10,800	10,800
Tank Volume Remaining in Holding Tanks**	41,903	37,703	33,503	29,303	25,103	35,903	46,103
* - Due to a typical HSW tanker being 5,000 gallons, volume added to holding tanks must be in 5,000 gallon increments							
** - If schedule is followed exactly, the holding tank would be emptied completely Sunday, resulting in the Total Volume Remaining to be the Total Available Volume							
If excess volumes occur, deliveries will be halted or reduced for an appropriate amount of time in order to make storage available again.							

HSW Transfer To Digesters Pump Operation		
Pump Speed (Variable Drive Percent Loading)	Gallons Per Minute	
5%	3-9	Due to HSW (especially FOG) being prone to creating blockages in the pipe, in order to allow for higher scouring velocities, the pump will be cycled on/off on an hourly basis HSW Transfer Pump Shall Operate at 75%-100% (~90gpm) for 5 minutes every hour of the day (Total Volume Transfer = 10,800 gallons per day)
10%	18-20	
15%	25-35	
25%	42-47	
50%	88	
75%	88	
85%	90	
100%	90-115	

Month/Year	Gallons Received (Monthly)	Gallons Allowed (monthly/daily)	
Oct-16	221,000	N/A	
Nov-16	314,960	N/A	
Dec-16	180,894	N/A	
Jan-17	270,253	N/A	
Feb-17	319,906	N/A	
Mar-17	306,330	N/A	
Apr-17	353,953	N/A	
May-17	471,371	N/A	
Jun-17	572,038	N/A	
Jul-17	589,543	N/A	* Digester Upset
Aug-17	-	0	
Sep-17	-	0	
Oct-17	-	0	* Digester Recovered
Nov-17	-	0	
Dec-17	-	0	
Jan-18	-	0	
Feb-18	-	0	
Mar-18	-	0	
Apr-18	-	0	
May-18	63,882	300,000/15,000	* Moratorium Lifted
Jun-18	44,500	300,000/15,000	~83% decrease from previous amounts <i>Seeking 33% Increase</i>
Jul-18	60,500	300,000/15,000	
Aug-18	65,900	300,000/15,000	
Sep-18	30,400	300,000/15,000	
Oct-18	38,100	300,000/15,000	
Nov-18	77,873	300,000/15,000	
Dec-18	96,222	300,000/15,000	
	<i>Proposed</i>	<i>400,000/20,000</i>	



Glenbard Wastewater Authority

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

Amended High Strength Waste Receiving Frequently Asked Questions

Glenbard Wastewater Authority
February 2019

1. What do you mean “revised based off actual conditions?”

When some of the parameters were originally calculated with the standard operating procedures, it was prior to some equipment actually being in operation, and therefore estimated or theoretical values were used. For example, when calculating the volumes of the tanks, exact dimensions of the tanks were used. Now, after using the system for a substantial amount of time, we realize that we actually cannot utilize the entire tank because of how the pumps operate, therefore the available volume of storage (tank volume) has been reduced. Also, the new transfer pump had not been used, so the pump speeds were based off values provided by the manufacturer. Again, after a substantial period of time using the pump, we realize that it is actually pumping at a higher rate than originally estimated.

Another example of an estimated value that we are now replacing with an actual value is the percent total solids (%TS) and the percent volatile solids (%VS). The original numbers used in the calculations were very conservative theoretical values. . Now, after accepting high strength waste again, we are able to use actual values based off materials brought to us and ongoing laboratory analysis. Allowable loading rates used in the calculations are still being kept at very conservative values in order to error on the side of caution.

2. The volume being transferred to the digesters is increasing by 44%. Is that too much?

When the moratorium on accepting HSW/FOG was lifted in the Spring of 2018, the intent was to start off slow to ensure the process was understood, with the intent to slowly increase the program over a period of time. The biological calculations show that our digesters can actually accept quite a bit more HSW/FOG than the 44% increase we're proposing, however we are being precautionous and increasing slowly. We may seek further increases in the future if we continue to demonstrate our success. The total volume of our digestion system is over 1.8 million gallons, and we are only seeking to add another 24,000 gallons over a weeks period (1.3% of the total digester volume), so in the grand scheme it is a relatively small amount. It is also important to note that we are not seeking to adjust the feed or loading rate to the digesters, simply the amount of volume we accept from haulers, so that we can use our storage capacity to the fullest and there can be a more continuous feed to the digesters rather than sporadic based on availability.

3. Will there be more truck traffic if this is allowed?

Yes, there could be a slight increase in truck traffic. Typically, this material is delivered in tanker trucks that carry roughly 5,000 gallons each. Since we're only seeking to increase the allowable receiving volume by 5,000 gallons, that means we should only see about one more truck a day. Deliveries are only allowed Monday through Friday, from 7am to 4pm, and not on holidays.

4. Will this generate more odors?


The increase in volume of HSW/FOG received, and an increase in volume being fed to the digesters will not generate more odors. This system is entirely enclosed and not open to the air. The odors experienced in 2017 were due to the digester upset which has driven the creation of the more strict SOP. The odors that our neighbors had experienced during the late summer months in 2018 were due to low influent flows of raw wastewater, not HSW/FOG, and were completely unrelated. However, as explained in the FAQ's for the standard operating procedures, the digestion process is a biological process, and is always subject to getting "upset" whether or not high strength wastes are added. This process is much like the digestion process of the human body, which can be very prone to getting upset, but also can be avoided with proper practices. While we perform every measure we can to prevent an upset, we need to disclose that an upset is always a possibility with or without HSW/FOG.

5. Are the standard operating procedures changing?

No, the actual standard operating procedures are not changing, just the biological and volume calculations. The Authority has had great success with the new standard operating procedures and intends to continue enforcing them. The intent of the procedures are to ensure we take thorough steps to monitor the stability of the entire system and document everything.

6. Who should we contact for further information regarding this process?

You can always contact Matt Streicher, GWA's Executive Director, with any questions. He can be reached by phone at 630-790-1901x126, or via email at mstreicher@qbww.org. GWA is always open to providing tours as well if you would like to come see the process first hand, and learn more about wastewater treatment. During off hours, you can always call our main number at 630-790-1901, and be connected to an operator on call.

	STANDARD OPERATING PROCEDURE	
	HIGH STRENGTH WASTE RECEIVING	
	Date Approved: March 8, 2018	Approved By: Glenbard Wastewater Authority Executive Oversight Committee

PURPOSE: A guide to qualify proposed digester feedstock and to safely and effectively accept the feedstock and process it for the purposes of co-generation. It is important to note that this is a biological process, and that while defining strict operating procedures, the possibility of an upset condition cannot be eliminated – only reduced. Staff shall not be held liable for an upset condition as long as these procedures are followed.

SCOPE: This Standard Operating Procedure (SOP) covers all aspects of receiving High Strength Waste (HSW). and is broken down into sections as detailed below.

It is desirable to use a single source hauler for delivery of high strength waste to the Authority so that greater control of delivery amounts and accountability of delivered materials can be had. However, as market changes may necessitate using more than one hauler or changing the sole hauler, included in this SOP is the process of qualifying additional feedstock and suppliers.

Part I	Staff Responsible: Environmental Resources Coordinator																			
Qualification of Feedstock																				
<div>1. HSW hauler will provide a complete description of the waste characteristics, including the following:<div><div>a. Waste type and origin. Type description to include general industry (food, medical, etc.)</div><div>b. A Laboratory analysis of the proposed feedstock waste must be submitted and reviewed. The hauler may provide the analysis from an independent laboratory or it may be analyzed by the Glenbard Wastewater Authority (GWA) laboratory staff at the hauler’s sole expense.</div><div>c. The analysis must contain the following parameters and be within the ranges indicated.</div></div></div>																				
<table><tr><td>Parameter</td><td>Minimum</td><td>Maximum</td></tr><tr><td>COD</td><td>30,000</td><td>N/A</td></tr><tr><td>pH</td><td>3</td><td>8</td></tr><tr><td>%VSS</td><td>60%</td><td>100%</td></tr><tr><td>Sulfates</td><td>0</td><td>350 mg/Kg</td></tr><tr><td>Volatile Fatty Acids</td><td colspan="2">Informational Purposes Only/No Limit</td></tr></table>			Parameter	Minimum	Maximum	COD	30,000	N/A	pH	3	8	%VSS	60%	100%	Sulfates	0	350 mg/Kg	Volatile Fatty Acids	Informational Purposes Only/No Limit	
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Volatile Fatty Acids	Informational Purposes Only/No Limit																			
<div>2. The Environmental Resources Coordinator (ERC) is responsible for reviewing the data provided and accepting or declining the feedstock based on the established range of parameters.</div> <div>3. The ERC may decline feedstock that meets the analysis criteria when there are other concerns, such as consistency or other risk factors.</div> <div>4. The Executive Director has the final approval or disapproval in all instances. The Authority has the right to refuse any feedstock or hauler at any time</div>																				

Part 2	Staff Responsible: Environmental Resources Coordinator
Hauler Qualification	
<ol style="list-style-type: none"> 1. Prior to delivering feedstock, proposed haulers must complete a permit application/contract agreement with GWA. 2. Haulers must provide proof of insurance with the following minimum coverage: <ol style="list-style-type: none"> A. Comprehensive General Liability Insurance covering personal injury, bodily injury, property damage, and contractual liability in the amount of One Million Dollars (\$1,000,000) for each occurrence and Two Million Dollars (\$2,000,000) aggregate per policy period; B. Comprehensive Automobile Liability Insurance covering personal injury, bodily injury and Property damage with a minimum combined limit of One Million Dollars (\$1,000,000). C. Worker's Compensation insurance in the minimum amounts required by statute. 3. A certificate or certificates of insurance naming THE AUTHORITY, the Village of Lombard and the Village of Glen Ellyn as additional insured parties. The certificate or certificates shall reflect the above coverages and shall be in effect at all times. Updated certificates of insurance shall be submitted annually to the Authority. 4. Haulers must provide a "renders license" or sign an affidavit certifying they only transport material agreed upon. 5. The ERC is responsible for reviewing the information submitted and recommending that the hauler be approved or disapproved. 6. The Executive Director has the final approval or disapproval in all instances. 	
Part 3	Staff Responsible: Operations Department
Feedstock Receiving	Back-Up Staff: ERC
<ol style="list-style-type: none"> 1. The ERC should make all efforts possible to schedule deliveries ahead of time, and convey this schedule to Operations on a daily basis or as mutually convenient. 2. Haulers must stop at gate and push button to announce arrival and open the gate. 3. A member of the Operations Department will meet the hauler at the receiving station to unlock it. 4. Prior to unlocking the station to commence discharge, the operator must check the daily log to ensure that there is capacity and the maximum volume of waste received will not be exceeded by the acceptance of the load. The criteria for the maximum volume of waste allowed to receive will be found in Schedule A of these SOP's. 5. The hauler is to provide a completed manifest for the load. 6. The hauler must fill out the label on a GWA provided sample container and use the container to grab a sample of the load as it is discharging. 7. Sample jars are to be provided by the Authority with labels. 8. The sample is to be placed in the small refrigerator that is located near the desk in the garage of the press building (Building P). 9. A member of the Operations Department will observe the discharge to check for possible contaminants. 10. Should the load appear to be contaminated, the operator must stop the hauler from discharging anymore of the suspect load. 11. When the discharge is complete, the operator will re-lock the station. 12. Once the maximum amount of HSW is received for that day, the operator must communicate this to the ERC and the administrative secretary in order to divert any further loads. 13. If there is failure in equipment associated with the receiving, maintaining, or transfer of the High Strength Waste, additional hauling will be ceased immediately until such equipment is repaired. 14. Deliveries will only be received when full time staff is present, i.e. M-F 7am-4pm, excluding holidays. 	

Part 4	Staff Responsible: Operations/Laboratory
Processing of HSW Samples	
<ol style="list-style-type: none"> 1. At the end of each day, a member of the Operations Department is to collect all load sample bottles from the refrigerator located in Building P, ensure they are labeled properly, and place them in the laboratory refrigerator in the designated area. 2. Laboratory staff is to ensure that if there are multiple haulers throughout a month that the random samples reflect each of the haulers. 3. If the Authority is to receive loads from multiple haulers, the results of these random samples will be entered into OPS works in the HSW worksheet. 4. All samples are to be saved for thirty (30) days, and at the end of the thirty (30) day period composited and analyzed for total solids and volatile solids. 5. The results of this composited sample are to be entered into OPS works on the Digester Volatile Acids worksheet and used to calculate the amount of volatile solids being sent to the digester. This will be used to determine if an appropriate amount of HSW is being sent to the digesters and will be evaluated monthly, or if/when a new waste stream is introduced. 6. Laboratory staff is to take a sample of the digester three times a week (Monday, Wednesday, and Friday) at consistent times and analyze it for the acids to alkalinity ratio. This data is to be recorded in the "Volatile Acids Binder," as well as the Digester Volatile Acids worksheet in the database management software (currently OPS Works). 7. The Laboratory Services Coordinator and/or Operations Superintendent is responsible for reporting any changes to the acids to alkalinity ratio outside above 0.15 to the Operations Superintendent and Executive Director immediately, and feeding of High Strength Waste to the digester will immediately be ceased. In this event, more frequent digester sampling will be taken as needed to more closely monitor the health of the digester and ensure upset conditions are not occurring. This range has been determined based on existing data from extended time periods when the Authority's digesters are operating without issue. 8. If the acids to alkalinity ratio range exceeds allowable limits, and/or the acids go above 200 mg/L, in a 24-hour period, feeding of High Strength Waste to the digester will immediately be ceased. In this event, more frequent digester sampling will be taken as needed to more closely monitor the health of the digester and ensure upset conditions are not occurring. 9. In the event of any upset conditions, the collected samples may be analyzed to determine if any potential containments were introduced via the high strength waste loads. Investigative work would be performed based on the type of upset condition that occurred, and if any unusual or suspect loads were received. 	
Part 5	Staff Responsible: Executive Director/ Operations Department
HSW Daily Loading	
<ol style="list-style-type: none"> 1. The Executive Director shall work with the Authority consultants to determine the maximum daily HSW volume that may be received, and that may be transferred to the digesters. 2. The determination of allowable volume to be transferred to the digesters will be made based on volatile solids loading bases, volume of storage available in the digesters, an acceptable feed rate to the digesters and resultant, empirical digester process testing. 3. The determination of allowable volume to be received will be made based on the volume of HSW allowed to be transferred to the digesters, the volume of storage available, and acceptable feed rates to the digesters in accordance with calculations defined in the attached "Schedule A." 4. These calculations will be reviewed periodically for potential adjustment based on: <ol style="list-style-type: none"> (a) Changes in the volatile solids loading base. 	

(b) Changes in equipment or process changes.

(c) Changes in the normal range of the volatile acids to alkalinity ratio.

5. The HSW Transfer pump to the digesters will be programmed to cease operating when the maximum allowable volume determined in Schedule A has been transferred to the digesters.
6. The HWS Transfer Pump (gallons per minute and duration) shall be programmed to pump at a consistent rate throughout the day according to calculations determined on Schedule A
7. The Authority, along with its consultants, have determined the maximum volumes of HSW allowed to be received and transferred to the digesters are defined in the attached Schedule A. These calculations are to be reviewed every 12 months and subject to change.
8. If changes are made to the high strength waste calculations/receiving/transfer amounts, a notification will be posted publicly on the Authority's website 45 days ahead of time, and notices will be sent via email to the Authority's subscribed email addresses, in order for there to be a public review/comment period.
9. Daily transfer rates to the digesters shall be in accordance with Schedule A in order to reduce the potential of a biological upset.



Glenbard Wastewater Authority

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

High Strength Waste Operating Procedure Frequently Asked Questions

Glenbard Wastewater Authority
January 2018

About:

The Glenbard Wastewater Authority located in Glen Ellyn, Illinois is an agency formed in 1977 between the Villages of Lombard and Glen Ellyn via an intergovernmental agreement. Its mission is to operate and maintain municipal wastewater treatment facilities, protect public health, and protect the environment, for approximately 109,000 residents and businesses in the Lombard, Glen Ellyn, Valley View/Butterfield and Glen Ellyn Heights service areas. (www.gbww.org/about-us)

In 2017, the facility began processing High Strength Waste, including fats, oils and greases. The below FAQ contains information about the benefits and procedures involved in the processing these materials.

1. What is High Strength Waste (HSW) and Fats, Oils, Greases (FOG)?

High strength waste (HSW) can be defined as wastewater that has more impurities in it than levels found in domestic wastewater, which is wastewater generated in homes. While this is a general definition, Glenbard Wastewater Authority (GWA) accepts only HSW that is generated during food processing or preparing. This includes waste such as grease laden water generated by restaurant dishwashing, sugar and grease laden water from the recycling of expired soda pop, salad dressing and other food products as well as clean up water from food manufacturing such as candy.

Fats, oils and greases (FOG) are a specific type of high strength waste. It is generated by restaurants during the preparation and clean-up of meals. Restaurants are required to have a grease trap to remove the grease from dishwashing water to keep it out of the sewers. Grease traps then must be pumped out from time to time and the material (food particles, oil and grease) properly disposed of. FOG is a desired high strength waste because it provides lots of energy over a long period versus sugar wastewater that provides high energy for short periods of time. This can be compared to how the human body reacts to sugar versus protein.

2. Why does GWA want to accept HSW, including FOG?

The wastewater treatment process uses large amounts of electricity. It accounts for a significant percent of our operating costs. Just like for homeowners, rising utility costs are a concern. GWA is constantly looking for ways to be energy efficient. A by-product of

Protecting the Environment for Tomorrow

wastewater treatment is methane gas. GWA has upgraded parts of the treatment system to be able to capture this gas and use it to generate energy to run the plant. However, the domestic wastewater coming into the plant from the area businesses and homes is not enough to generate all the energy GWA needs to operate. By accepting HSW and FOG, GWA will be able to generate a larger portion of the energy it needs to run.

The more energy GWA can produce, the less it has to pay for it. In addition to producing energy, the process generates heat. This heat is also captured and used in the process instead of depending on natural gas boilers for heat. This further reduces utility costs for GWA. Additionally, it allows budget money to be shifted to fund much needed upgrades to aging equipment and helps contain sewer rates for all users of the system.

This process is a “green” initiative and helps preserve the environment. It keeps HSW and FOG from ending up in a landfill and turns it into renewable energy. It also reduces the carbon footprint GWA creates since a larger portion of the treatment process would be run by the renewable energy.

3. How is HSW turned into energy?

Wastewater treatment at GWA is hugely dependent on micro-organisms or “bugs”. The bugs are in large covered tanks called digesters. The HSW is pumped into these tanks as food for the bugs. The bugs eat the grease, food particles, and sugars in the HSW and produce methane gas. The methane gas is then captured and processed through engines to generate electricity.

4. Why is the Glenbard Wastewater Authority (GWA) deciding to take in HSW and FOG again?

After the biological upset during late summer/early fall of 2017, a temporary moratorium was placed on the acceptance of these materials, with the anticipation of accepting it again after thorough investigation to ensure proper handling and addition of the material. Accepting HSW/FOG will allow GWA to produce more bio-gas (a natural bi-product of wastewater treatment), which in turn will allow for the generation of more renewable energy to use on site. Since our mission is to both protect public health and preserve the environment, this is a method of saving costs, protect the public health, and being green to help preserve the environment. The cost savings realized will assist GWA in paying for future improvements, which will result in less costs for GWA customers.

5. How did GWA put together the Standard Operating Procedures?

GWA had initially reached out to members of the public to attempt to form an Ad-Hoc committee, but only had one volunteer, and unfortunately could not put together a proper committee. Therefore, GWA performed in depth research on proper methods of receiving and adding the material to our own waste, and formulated it into a document. GWA staff also visited a neighboring wastewater treatment plant who is currently, and successfully, accepting HSW/FOG. Procedures that have worked successfully for this other facility were included in GWA's policy.

6. What kind of preventative measures do the Standard Operating Procedure include?

GWA will thoroughly vet haulers before allowing them to bring material in, as well as thoroughly analyzing the nature of the material they propose to haul in to ensure it is a

suitable product. Once GWA has deemed a hauler and their material acceptable, the hauler will be issued a permit, along with a copy of the standard operating procedures. The hauler will also be required to provide a “renders license,” or sign an affidavit, which states they will only bring in material that was agreed upon. The volume will be carefully controlled and each delivery will be inspected by GWA staff with a sample taken from each load.

7. What caused the offensive odor in August and what is GWA doing to try and prevent it from happening again?

Plain and simple, the bugs were overfed. This caused a chain reaction and the treatment system got upset; much like when you overeat or eat something that does not agree with you. The treatment process was still working, but since it was upset it produced more hydrogen sulfide than normal. Human noses are extremely sensitive to the smell of hydrogen sulfide, so even though the odors were potent, the levels contained in the air were non-hazardous. GWA took air samples during this time period, and although the odors were detectable by the human nose, the levels of hydrogen sulfide in the air at the plant were too low to even register in the measuring devices.

8. What has GWA done to prevent an upset from occurring again?

The entire process has been thoroughly reviewed by GWA staff and consulting engineers and the following improvements have been made:

- An additional pump was added to be able to continuously feed the digesters with the HSW, where previously a single pump was being shared between two separate steps of the process. This allows GWA to feed the bacteria with more consistency instead of the “feast or famine” method from having only a single pump.
- GWA staff visited a neighboring wastewater treatment plant who is currently, and successfully, accepting HSW/FOG. Procedures that have worked successfully for this other facility were included in GWA’s procedures.
- The calculations regarding how much HSW could be safely added were reviewed and revised. That data collected from the 10 months of successfully accepting this waste were included.
- While GWA had a process in place to accept the HSW, the policy was reviewed, refined and formalized in a standard operating procedure document. Safeguards have been incorporated into this document to ensure limits on accepting HSW are regulated closely. [Click here to review GWA’s full SOP for HSW Receiving.](#)
- Additional laboratory tests will be done on the HSW in order to best determine how much food the bugs are receiving; similar to knowing the calories in your food and staying within a certain number of calories per day to not put on weight.
- Additional and more frequent laboratory tests are being performed on the digesters themselves so that the Authority can be proactive in seeing if there is any trend towards a potential upset, and be able to take preventative measures prior to an upset occurring.

9. How will GWA know if a biological upset is going to happen again?

Whether or not GWA accepts HSW/FOG, the possibility of an upset always exists, as this is a biological process much like human digestion. Just like every person has different tolerances and is prone to digestive upsets, GWA's digesters have the potential of being upset even just from the normal domestic wastewater stream coming from our residents. However, as part of the standard operating procedures, GWA will be monitoring the biological health of the digesters much closer. The procedures define a set of published standards on digester health, and GWA have set those standards to be even more conservative than what is recommended. If it's noticed the health of the digester is approaching the limits of those standards, we can immediately begin taking preventative measures in order to attempt to stop an upset from occurring.

10. Who should we contact for further information regarding this process?

You can always contact Matt Streicher, GWA's Executive Director, with any questions. He can be reached by phone at 630-790-1901x126, or via email at mstreicher@gbww.org. GWA is always open to providing tours as well if you would like to come see the process first hand, and learn more about wastewater treatment. During off hours, you can always call our main number at 630-790-1901, and be connected to an operator on call.

SECTION 8.0

DISCUSSION

SECTION 8.1

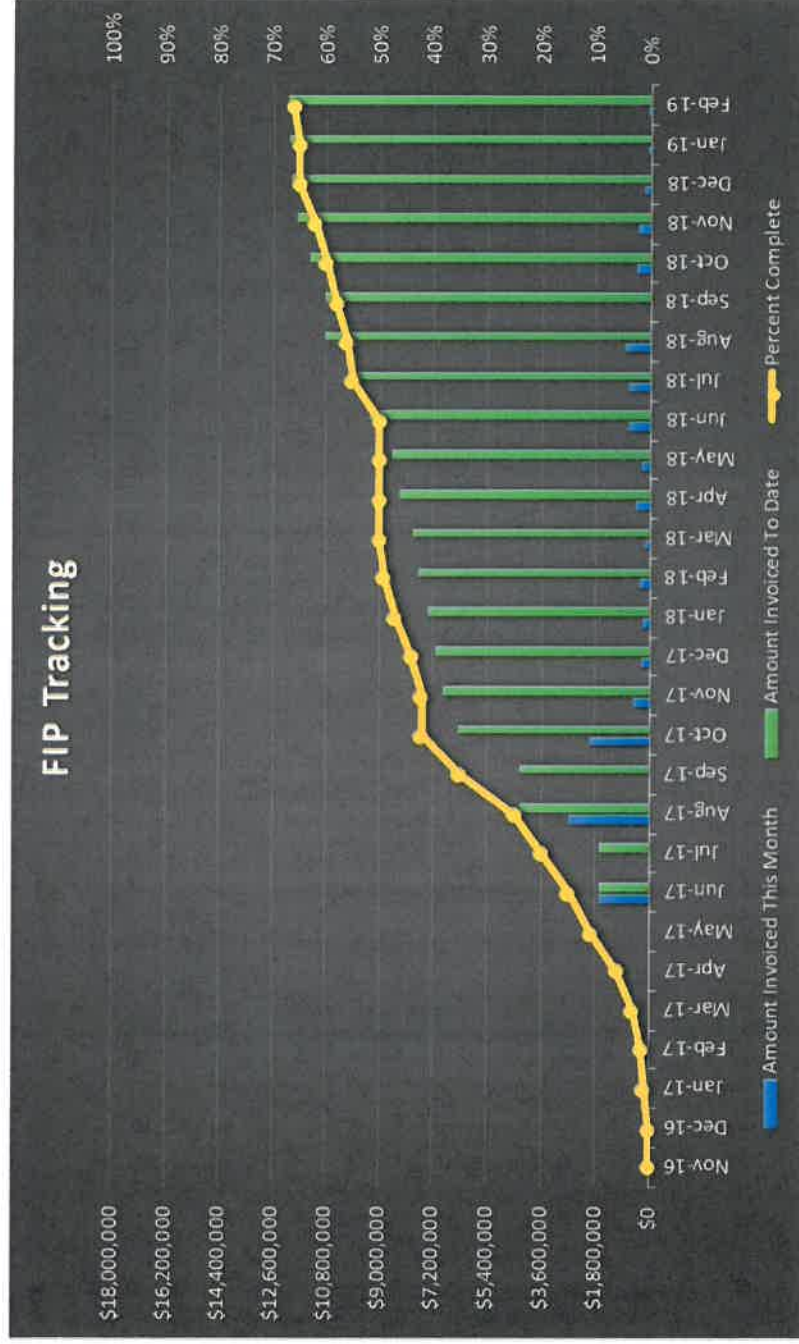
FACILITY IMPROVEMENT PROJECT - UPDATE

FIP Project Update

- Work Completed Since Last EOC Meeting
 - Filter Building Cleanup, created punch list for contractor
 - Chem-feed System Installed, problem with Hypo Pumps, going to re-design.
 - Excavation for new Raw Pumps finished, began pouring concrete.
 - Wall for new Raw MCC built.
 - HVAC Work – Building B duct continues
 - Mock shut-down #1
 - 286 Submittals
 - 50 Requests for Information
- Work Anticipated Prior to Next EOC Meeting
 - Filter Building punch list update
 - Pump station slab/walls poured
 - New plan for Hypo system





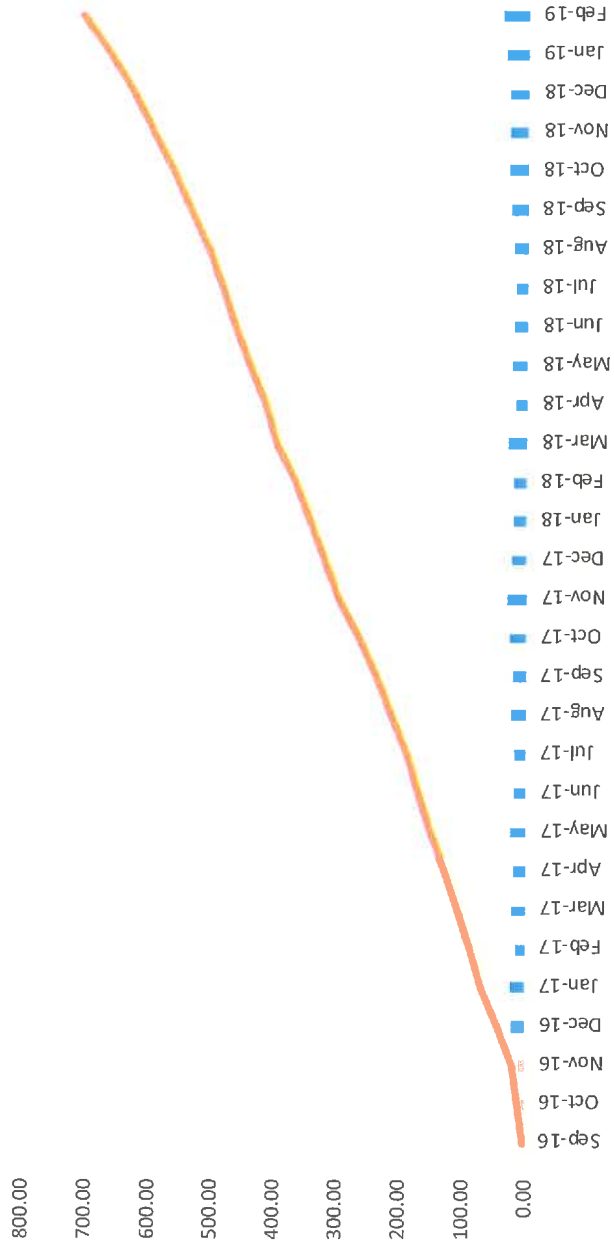


Days Remaining Until Final Completion (02/11/2020): 321



FIP GWA RE Tracking

■ GWA RE Hours ■ GWA RE Hours To Date



SECTION 8.2

**GWA OPEN HOUSE –
JUNE 1, 2019**

JOIN US FOR OUR 1st EVER OPEN HOUSE



SATURDAY, JUNE 1, 2019

FROM 9 A.M. TO NOON

**GLENBARD WASTEWATER AUTHORITY
945 BEMIS ROAD, GLEN ELLYN
(1 block East of Route 53)**

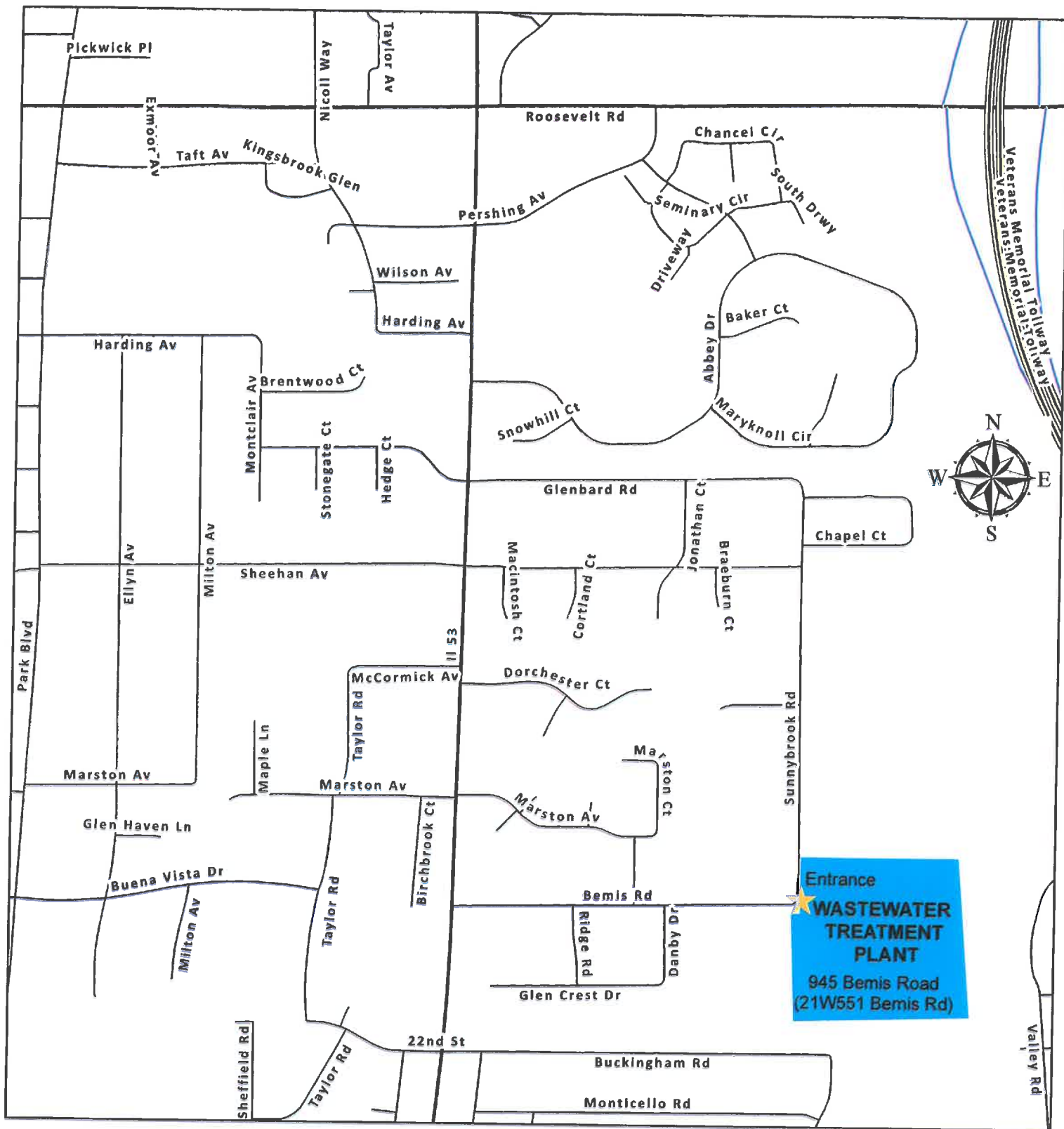
Join us for this unique opportunity to see firsthand how your local wastewater treatment plant operates!

*Tours start @9a.m. and will be every half hour until 11:30am
Residents/homeowners, students, scout groups and the general public
are all welcome. Admission is free! Refreshments Provided.*

Please RSVP for groups larger than 10 individuals

FOR MORE INFORMATION, CALL **630-790-1901** OR VISIT

WWW.GBWW.ORG



945 Bemis Road, Glen Ellyn, IL
 (630) 790-1901
www.gbww.org

SECTION 9.0

OTHER BUSINESS

SECTION 9.1

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

January 24, 2019 9:30am

Meeting Start Time: 10:09am

Present: Carl Goldsmith, Julius Hansen, Tom Romza, Matt Streicher

1. Facility Plan Update

No update provided. Consultant submitted draft facility plan and GWA is currently reviewing it, and meeting with the consultant to go over review comments.

2. FIP Update

a. ERS Progress

Contractor has continued slow progress on the deep dig but is near the bottom of the excavation

i. Dewatering Costs

Mr. Streicher informed the TAC that GWA does expect to see a change order for the dewatering costs. Mr. Streicher explained that as part of Change Order 3, GWA was to pay the first \$100k of dewatering costs, and any amount above that was to be split 50/50 with the contractor. The EOC had already approved the extra \$100k as part of Change Order 3, and the contractor has made GWA aware that the costs have well exceeded \$100k, but have not provided sufficient documentation showing so. GWA is currently waiting on more detailed documentation and will negotiate costs further with the contractor.

b. Schedule Update

Mr. Streicher and Mr. Romza informed the TAC that the contractor has submitted a revised schedule that now shows them being only approximately 30 days beyond the contractual completion date, instead of 4 months. The contractor still needs to submit a narrative explaining how they were able to shave time off of the schedule. Until that is submitted, GWA will withhold any further payments, per the contract specifications.

c. Filters Update

Mr. Streicher and Mr. Romza informed the TAC that GWA has been experiencing many issues with the new disc filters. Although they are performing their job by removing suspended solids, they have been backwashing too frequently, and it has led to many issues with the new filters. The manufacturer was on site during this meeting, and the entire week, in order to get to the root of the problem. More information will follow on this subject when it is known.

3. Other Business

a. HVAC Design Update

This design for this project is near 60% complete, but progress had stopped due to Strand needing indication as to whether or not their proposed amendment would move forward.

i. Design Engineering Amendment Proposal = \$8,000

Strand identified that the MCC in the Admin building was going to need significant modifications between this project and the Electrical Grid project, and that it was already beyond its useful service life, and scheduled to be replaced. There is an economy of scale savings by designing and replacing the MCC with this project. Village Manager Franz had approved this amendment via email.

b. Electrical Grid Design Update

This project design is near 60% complete as well. Further updates to come. The TAC expressed concern that this project may need to have pre-qualified bidders, or some other request for

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proposal method than a typical design/bid/build, so that GWA can be ensured no “mom and pop” contractors get awarded the work. This construction project will be complex due to the medium voltage electrical work, so GWA wants to ensure a contractor who is qualified to do the work gets awarded the job. Director Hansen expressed concern that the existing medium voltage grid needs to be maintained well enough to prevent any failures prior to the replacement/rehabilitation occurring. Mr. Streicher stated that GWA has kept up with preventative maintenance and measures in order to extend the life of the grid and prevent any failures from occurring.

c. Property Acquisition Discussion

Mr. Streicher informed the TAC that the Village of Glen Ellyn’s attorney, Greg Mathews, has requested appraisals for the two properties the EOC was seeking them on. No response has been received yet.

d. Televising/Manhole Inspection Proposal

GWA would like to utilize Red Zone Robotics again for the televising work to be done in 2019, as GWA was very satisfied with their work, and the reports delivered. The detail in the reports will allow GWA to lay out a multi-year plan to address issues noted during televising, instead of just obtaining the televising videos and taking no action. Mr. Romza and Mr. Streicher will investigate methods that would allow GWA to utilize Red Zone Robotics again, or develop a request for proposals for the work that would only be sent to select firms capable of performing the work. RJN Group also submitted a proposal to perform manhole inspections on all of GWA’s manholes. To the best of Mr. Streicher’s knowledge, this work has not been performed in the past. RJN would include suggested rehabilitation with the report to allow GWA to lay out a multi-year plan to address any deficiencies found. Mr. Streicher and Mr. Romza have to research GWA’s professional services SOP to determine whether or not other proposals need to be obtained.

e. FPA Amendment

Director Goldsmith requested any information GWA has on past FPA amendments. Lombard is seeking to take a property out of Flag Creek’s FPA and corporate limits and transition it to GWA. In order to do this, several exhibits and other information have to be prepared and submitted, so Director Goldsmith was hoping to see what was done in the past. Unfortunately, at this time, neither Lombard or GWA have been able to retrieve any past documents.

f. “Strategic Planning Session for overall policy goals to determine if it makes financial sense to pursue working toward Net Zero at GWA.”

Not discussed, tabled for another meeting.

g. HSW/FOG Calculation Modifications

Mr. Streicher asked if the material being publicly posted needed to go to the EOC again, or if GWA could move forward with posting it. Mr. Streicher also provided the TAC some of the documents that are being planned to be posted for review. The TAC agreed that the documents do not need to go to the EOC, but should be circulated to the TAC and the Village managers for review prior to posting. After the required 45-day public posting period GWA will request official approval from the EOC for the amendment.

h. Open House

GWA informed the TAC that it plans on hosting it’s first ever “Open House” to the public on June 1, 2019. All members of the public, from any Village, are welcome to the Open House

i. RJN Hydraulic Monitoring for 2020

Not discussed at this meeting

j. Drone Purchase

Mr. Streicher informed the TAC that GWA is considering buying a drone to use to gather information and aerial photos during construction projects. Director Goldsmith agreed that drones can be useful. Mr. Streicher also informed the TAC that GWA does have a FAA Licensed Pilot on staff that would be able to qualify to fly the drone. This will be discussed at a future TAC meeting.

k. Annual Reporting (IEPA, EPA, IEMA, DuPage County, etc.)

Mr. Streicher informed the TAC that GWA has completed almost all of the annual reporting it is required to do to all the different agencies that govern the facility. GWA is still currently waiting on fiscal information from the Village of Glen Ellyn so that it may complete the 2019 IEPA Annual Fiscal Report that is due by January 31, 2019

l. Short List Revisions

Mr. Streicher informed the TAC that based on the professional services SOP, the short list is up for any revisions to be made to it in 2019, and that a couple of firms have been soliciting to get on



Glenbard Wastewater Authority

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the list. Based on the revisions that were made in 2016, the flux of work to be occurring at GWA in the next 3 years, and the current firms on the list – that any changes to the shortlist will be tabled until 2022. Further discussion will be held on this matter as well.

4. Old Business

a. Pretreatment Ordinance Status/Village of Glen Ellyn FOG

GWA provided the Village of Lombard with USEPA's comments on the proposed language. Most of the comments were very minor in nature, however GWA's environmental resources coordinator had a couple of questions that were submitted to USEPA. Due to the government shutdown, we are unsure as to when we will receive feedback from them.

b. Forest Preserve County of DuPage Easement Leases

No update

c. 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

No Discussion

Meeting Adjourned at 11:04am



Glenbard Wastewater Authority

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GWA Technical Advisory Committee (TAC) Meeting Agenda

March 8, 2019 9:30pm

Present: Scott Niehaus, Julius Hansen, Mark Franz, Matt Streicher, Tom Romza

1. Facility Plan Presentation

Trotter & Associates Presented the Facility Plan to the group with the recommendations for the next 10 years. A separate presentation will be given to the EOC by Mr. Streicher.

2. FIP Update

a. ERS Progress

Contractor has gotten down to grade and will begin applying sub-base stone and mud-slab next week.

i. Dewatering Costs

The contractor has submitted dewatering costs that have not been satisfactory in providing details of their invoices and man-hours. Over the past 3 -months GWA has continually rejected the submissions and asked for additional detail. Director and Assistant Director informed the TAC that the latest submission had about \$300,000 worth of dewatering costs which equates to \$100k of the costs in the previously approved change order and an additional \$100k of costs that is made up of \$200k split 50/50 with Boller. TAC informed GWA to keep pushing back on the costs but they understand the situation. Mr. Streicher informed the TAC that we have not observed any flow rates above 960gpm, nor has the contractor demonstrated it.

b. Schedule Update

The schedule is still behind the submitted schedule with a completion date of late 2019. The latest schedule has Boller finishing in February of 2020, but that is already behind. GWA brought up a strategy to NOT pursue liquidated damages if GWA does not have to pay any additional dewatering costs outside of the original change order of \$100k. The TAC said that is not a bad strategy but dewatering costs will have to be finalized first, and the EOC will have to be involved in the decision. The TAC advised GWA to share the most recent communications with GWA's attorney and have him ensure there is nothing else that needs to be done to protect GWA.

c. Filters Update

The filters have been having issues with frequent backwashes, to the tune of 1,000+ per day. Kruger has been out running tests to figure out the best way to remedy this problem and GWA is waiting on their 2/25/19 visit report.

3. Other Business

a. Purchasing Policy Discussion

Glen Ellyn is concerned that Lombard may want additional say in the larger purchases that GWA makes due to their involvement in paying 60%+ of GWA's budget. It is thought to ask the EOC if GWA's purchasing policy should be updated to include more input from Lombard. Manager Franz will inquire further with Manager Niehaus, and this will be brought forward to another TAC meeting where Lombard is present.

b. ComEd SEM MOU Signing

Mr. Streicher explained there is no risk to the Authority by joining this program, it is simply a co-hort of local POTW's attempting to lower energy uses across the board by implementing no-cost minor operational strategies. The only commitment on GWA's part is staff time, as there will be a total of 7 day-long workshops over the course of 2 years. GWA will receive up to \$4,000 in

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incentives, the first \$1,000 would come after signing the MOU. The TAC had no opposition to joining the program.

c. HVAC Design Update

GWA has reviewed and submitted comments on the 60% design, awaiting the 90% in April. This is still on schedule to go out to bid for construction in July.

d. Electrical Grid Design Update

The electrical grid design has fallen a bit behind schedule due to complications found during the HVAC design project. GWA is awaiting the 60% submittal.

e. Property Acquisition Discussion

Matt has repeatedly asked for appraisals of the north side properties but has not gotten a response from Greg. Julius will talk to Greg to get those to GWA.

f. Televising Proposal

GWA has gone out to bid for the 2019 Sewer Televising Project. Submitted RFP to 3 firms and also shared the bid documents with Glen Ellyn.

g. Manhole Inspection Proposal

GWA has signed a contract with RJN Group to scan all of the GWA manholes for \$29k. This proposal was approved in conjunction with Lombard, who has done due diligence to only ask RJN for a proposal. Lombard's Scott Niehaus and Carl Goldsmith, along with Glen Ellyn's Julius Hansen and Mark Franz all approved of this proposal and also gave approval to have the EOC approve of the proposal in post on the next consent agenda.

h. FPA Amendment

i. "Strategic Planning Session for overall policy goals to determine if it makes financial sense to pursue working toward Net Zero at GWA."

It was discussed that while this is a KPI for Director Streicher, it may have been worded incorrectly to accurately describe what GWA's goals should be. Mr. Franz recommended that we do not want a policy to get to net-zero if it is not financially responsible, but rather a policy to become as energy responsible as possible. The more energy efficient we become, the closer to net-zero we can get. Mr. Franz recommended Mr. Streicher briefly cover this at a future EOC meeting.

j. HSW/FOG Calculation Modifications

The 45-day posting period for accepting additional FOG has ended. Mr. Franz said to take the amendment to the next EOC meeting for final blessing.

k. Open House

GWA will host an open house on June 1st, 2019. GWA will use Lombard and Glen Ellyn's mailing list and the neighborhood logs that GWA already has.

l. Short List Revisions

GWA is asking if the revision of the short-list can be postponed for an additional 3 years, due to the fact that GWA is currently using 3 of the short-list firms and have not gotten a chance to use 2 of the latest additions to the short list. All members of the TAC agreed.

4. Old Business

a. Pretreatment Ordinance Status/Village of Glen Ellyn FOG

This is nearing completion. Further discussion will be had with Lombard once we get a final answer from USEPA

b. Forest Preserve County of DuPage Easement Leases

Glen Ellyn is still in negotiations with DuPage.

c. 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

Each Village has taken ownership of all sewers upstream of GWA lift stations. All agreed.

SECTION 9.2

PENDING AGENDA ITEMS



Glenbard Wastewater Authority

21W551 Bemis Road Glen Ellyn, Illinois 60137

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

2019 Pending EOC Agenda Items

Projects	Budget	Date	Status
Capital Improvement Projects			
Electrical Service Distribution System Construction/Engineering	\$2,600,000	July	
Admin Building HVAC Construction	\$1,000,000	June	
Roof Rehabilitation	\$144,000	July	
Infrastructure Improvement			
Dewatering Building GBT Room & Truck Bay AHU Replacement	\$50,000	March/April	STARTED/Under \$20k
Plant Fiber Testing & Repairs	\$30,000	May	APPROVED/Under \$20k
HSW Improvements Modifications	\$25,000	October	
Equipment Rehabilitation			
Overhead Door Safety Bumper Replacements	\$30,000	June	
Screw Pump Rehab	\$45,000	June	
CHP Siloxane and Hydrogen Sulfide Media Replacement	\$50,000	TBD	
Moyno Pumps (10) Spare Parts	\$25,000	Ongoing	
Televising & Cleaning of NRI & SRI, and MH's	\$100,000	April	PROPOSED
Gravity Thickener Bridge & Mechanism Painting	\$40,000	June	
SRI Pump Station Concrete Lining	\$50,000	August	
Rolling Stock			
None			

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Administrative			
Forest Preserve Easement License Costs for NRI	\$150,000	TBD	Under VOG Review
Pretreatment Ordinance Recommendation	-----	June	Under USEPA Review

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SECTION 10.0

NEXT EOC MEETING

THURSDAY

MAY 9, 2019

AT 8:00 A.M.

SECTION 11.0

EXECUTIVE SESSION