



# DuPage Water Commission

600 E. Butterfield Road, Elmhurst, IL 60126-4642  
(630)834-0100 Fax: (630)834-0120

## AGENDA

**ENGINEERING & CONSTRUCTION COMMITTEE**  
**THURSDAY, NOVEMBER 16, 2017**  
**6:00 P.M.**

**600 EAST BUTTERFIELD ROAD**  
**ELMHURST, IL 60126**

## COMMITTEE MEMBERS

D. Loftus, Chair  
J. Fennell  
F. Saverino  
M. Scheck  
J. Zay

- I. Roll Call
- II. Approval of Committee Meeting Minutes

**RECOMMENDED MOTION: To approve the Minutes of the October 19, 2017 Engineering & Construction Committee Meeting of the DuPage Water Commission.**

- III. Report of Status of Construction/Operations
- IV. R-38-17: A Resolution Awarding 2017 Flow Meter Replacement Project Contract. (**Meccon Industries, Inc. – \$392,000.00**)
- V. RFBA: Purchase Requisition No. 49276 for Infor EAM 2018 Maintenance Fee (**Global Solutions, Inc. - \$45,485.68**)
- VI. R-39-17: A Resolution Approving and Ratifying Certain Task Orders Under a Master Contract with (**Greeley and Hansen - \$107,000**)
- VII. Old Business
- VIII. Other
- IX. Adjournment

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**MINUTES OF THE MEETING OF THE  
ENGINEERING & CONSTRUCTION COMMITTEE  
OF THE DUPAGE WATER COMMISSION  
HELD ON THURSDAY, OCTOBER 19, 2017  
600 EAST BUTTERFIELD ROAD  
ELMHURST, ILLINOIS**

The meeting was called to order at 6:00 P.M.

Committee members in attendance: J. Fennell, D. Loftus, F. Saverino, M. Scheck and J. Zay (6:14 p.m.)

Committee members absent: None

Also in attendance: C. Bostick, E. Kazmierczak, T. McGhee, D. Novotny and J. Schori.

Commissioner Fennell moved to approve the Minutes of the September 21, 2017 Engineering & Construction Committee Meeting of the DuPage Water Commission. Motion seconded by Commissioner Scheck.

Ayes: J. Fennell, D. Loftus F. Saverino and M. Scheck

Nays: None

Absent: J. Zay

Chairman Loftus requested an overview of the Status of Operations Report.

Regarding R-37-17 Facilities Construction Supervisor Bostick advised the Committee that this agenda item is to seek authorization for advertisement for bids on a Contract for replacement of the water heater for the DuPage Pumping Station and Administration Buildings. Commissioner Saverino requested some detail about the scope of the project. Facilities Construction Supervisor Bostick advised that the exact scope had not been included in the resolution however; the domestic water heating system dates to original construction; has exceeded its useful life; that the project had been included in the annual operating budget; and as a recommendation in the 2015 Condition Assessment.

Regarding the Village of Bartlett water service, Facilities Construction Supervisor Bostick advised the Committee that design is nearing completion, the pipeline easements are being worked on, and the various entities are reviewing the project permit applications. Facilities Construction Supervisor Bostick also advised the Committee that discussions are being held with the Village of Bartlett about including the construction of a Bartlett distribution system water main within the scope of work in the upcoming Commission's supply water main construction contract. The Village of Bartlett has made this request as they need the new distribution system water main to

augment water movement from the Commission's connection facilities to the Bartlett distribution system.

Regarding the Contract for the Rehabilitation of Coating Systems and Fall Protection Systems for Tank Site No. 3, Facilities Construction Supervisor advised the Committee that Standpipe No. 3 punch list items are being attended to.

Regarding R-34-17, Facilities Construction Supervisor Bostick advised the Committee that this agenda item is to seek authorization to advertise for bids on Quick Response Electrical Contract QRE-8/17

Facilities Construction Supervisor Bostick advised the Committee regarding the Flow Meter Replacement project, Staff is acquiring materials and parts for eventual inclusion into the work. Facilities Construction Supervisor Bostick also advised the Committee that the contract to install the meters is presently out for bids and a mandatory pre-bid meeting was held earlier in the week in which five potential bidders attended.

D. Novotny left the meeting at 6:12 P.M.

Facilities Construction Supervisor Bostick advised the Committee that Staff continues working on the software upgrade of the Infor Enterprise Asset Management (EAM) system.

Regarding R-33-17 Facilities Construction Supervisor Bostick reminded the Committee that Staff was able to determine that a 48" butterfly valve on the north side of Downers Grove had broken in the closed position and replacement of the valve is necessary. R-33-17 would authorize Work Authorization Order No. 005 for the work to be performed by John Neri Construction Co., Inc. at the cost estimate of \$138,500.00. Facilities Construction Supervisor Bostick advised the Committee that the replacement valve delivery is expected in a few weeks and the replacement work should commence shortly thereafter.

Facilities Construction Supervisor Bostick advised the Committee that a Request For Board Action appears on the agenda to accept a proposal from Corpro to perform professional services for the Bartlett Supply Line. Facilities Construction Supervisor Bostick informed the Committee that the services included the hands-on testing, design and build of passive corrosion control means found necessary during the construction of the water main at a not-to-exceed cost of \$22,000.00.

Chairman Loftus asked Manager of Water Operations McGhee to provide an overview as to the Request For Board Action to authorize the General Manager to execute an Extension of the Current Electrical Supply Agreement. Manager of Water Operations McGhee advised the Committee that the Commission's electrical supply consultant has advised the retail electrical market cost per kilowatt is trending downward and they are recommending that the Commission enter into an extension of the supply agreement when the pricing becomes most advantageous for the Commission.

Engineering Committee Minutes 10/19/2017

Chairman Loftus inquired with the Committee if there were any questions regarding the action items. Hearing none, Commissioner Saverino moved to recommend approval of items 2 through 6 of the Engineering and Construction Committee portion of the Commission Agenda. Seconded by Commissioner Fennell.

Ayes: J. Fennell, D. Loftus F. Saverino, M. Scheck and J. Zay

Nays: None

Absent: None

Chairman Loftus inquired the Committee if any other business or items to be discussed.

Hearing none, Commissioner Scheck moved to adjourn the meeting at 6:20 P.M. Motion seconded by Commissioner Fennell.

Ayes: J. Fennell, D. Loftus F. Saverino, M. Scheck and J. Zay

Nays: None

Absent: None

SP2013/MINUTES/ENGINEERING/2017/ENG171019.doc



# DuPage Water Commission

## MEMORANDUM

TO: John Spatz  
General Manager

FROM: Terry McGhee  
Manager of Water Operations

Ed Kazmierczak	Pipeline Supervisor
Chris Bostick	Facilities Construction Supervisor
John Schori	Instrumentation Supervisor
Frank Frelka	GIS Coordinator
Mike Weed	Operations Supervisor

DATE: November 8, 2017

SUBJECT: Status of Operations

### Operations Overview

The Commission's sales for the month of October were a total of 2.2 billion gallons. This represents an average day demand of 70.0 million gallons per day (MGD), which is higher than the October 2016 average day demand of 66.7 MGD. The maximum day demand was 90.1 MGD recorded on October 1, 2017, which is higher than the October 2016 maximum day demand of 72.8 MGD. The minimum day flow was 61.5 MGD.

The Commission's recorded total precipitation for the month of October was 8.7 inches compared to 3.8 inches for October 2016. The level of Lake Michigan for October 2017 is 580.3 (Feet IGLD 1985) compared to 579.7 (Feet IGLD 1985) for October of 2016

### Water Conservation

DWC will be providing their assistance to the Villages of Westmont and Clarendon Hills' Richmond Gardens and apiary conservation project in designing and implementing a forthcoming water feature showcasing water conservation.

Ongoing: Staff is working with SCARCE to earn their Earth Flag. The process consists of a green audit, staff training in recycling and conservation, an action that involves the Commission in the community (i.e. a book drive, cleaning a creek, adopting a highway, etc.), and finally presenting the Earth Flag to the Board Members. Staff has completed the green audit and is working with SCARCE to set up dates for staff training.

### **Bartlett Water Service**

The Commissions Engineers have completed the design drawing and are preparing to put the project out for bid. The bid opening is scheduled for December 12, 2017

The permitting process continues and staff is working with the attorney to finalize easement agreements with local land owners.

One of the permitting agencies has informed us that we will be required to perform a phase 1 archeological survey on the section of the project that runs along the DuPage River. Our goal is to perform this survey in conjunction with the other phases of the project.

The Commission has requested proposals for the design and construction services for the connection facilities which will be awarded at the November meeting.

### **Facilities Construction Overview**

#### **Standpipe Rehabilitation**

Coating rehabilitation work has been completed for the Contract for the Rehabilitation of Coating Systems and Fall Protection Systems for Tank Sites No. 3 (Contract SS-8/17) with Era-Valdivia Contractors, Inc., however the contractor continues working on various punch list items.

### **Instrumentation / Remote Facilities Overview**

#### **Quick Response Electrical Contract QRE-7/15**

Work Authorization Orders No. 15 is to replace two damaged electrical disconnects and J-Box at Tank Site 4. The work is now scheduled with ComEd to disconnect power and will be completed before the end of November.

Work Authorization Order No.16 to prepare all meter stations for the new flow meters. Replacing cabling between each meter and the control cabinet. The cabling and parts are scheduled to be received the first week of November at which time the work will begin.

Work Authorization Order No. 17 to provide and install new single-mode fiber optic cable between the main pump station building and the generator facility for 10Gbps network communication. There have been problems with the conduit path between the buildings for the fiber, but this has now been resolved and the work should be completed before the end of November.

Flow Meter Replacement Project

R-38-17 appears on the agenda as a Resolution Awarding 2017 Flow Meter Replacement Project Contract. This contract is for replacing 207 water meters at the Commission's 82 meter stations.

The new meters and parts for installation are all on order and scheduled for delivery. The initial batch of meters and parts to outfit the meter test benches has been received. The test benches will be modified and initial new meter testing is scheduled to begin the middle of November. About 4 weeks later approximately 15 meters will be delivered per week. Early November the electrical contractor will begin installing new cables for each meter. Tested new meters are scheduled to begin delivery to meter stations starting early December and installation beginning in late January. The project is scheduled to be completed no later than the end of August 2018.

Infor EAM

Staff submitted a Request for Board Action seeking approval of purchase requisition 49276 authorizing payment of the Infor Enterprise Asset Management (EAM) software maintenance fee. The Infor EAM program is used for purchasing and equipment maintenance. The annual fee is required to receive support, software patches and new program versions.

Pipeline Maintenance and Construction Overview

Staff continues inspection and repair work on distribution system blow off valves and expects to complete this work by the end of the year.

Work authorized under Work Authorization Number 5 to Contract QR-11/17 is in progress. This work is for the installation of a new 48" diameter butterfly valve that is necessary to replace an existing inoperative 48" diameter butterfly valve located at Ogden Avenue and Douglas Road in the City of Downers Grove.

NOVEMBER 2017 COMMISSION AGENDA ITEMS:

- R-38-17:** A Resolution Awarding 2017 Flow Meter Replacement Project Contract. **(Meccon Industries, Inc. – \$392,000.00)**
- RFBA:** Purchase Requisition No. 49276 for Infor EAM 2018 Maintenance Fee **(Global Solutions, Inc. - \$45,485.68)**
- R-39-17:** A Resolution Approving and Ratifying Certain Task Orders Under a Master Contract with **(Greeley and Hansen – \$107,000) (Bartlett Connection Facility)**

**Attachments**

1. DuPage Laboratory Bench Sheets for October 2017
2. Water Sales Analysis 01-October-2009 to 31-October-2017
3. DuPage Water Commission Chart Sales vs. Historical Average
4. DuPage Water Commission Chart Sales vs. Allocation

<http://sp2013/Status%20of%20Operations/2017/1108.docx>

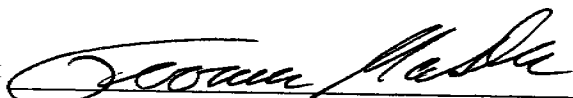


DUPAGE WATER COMMISSION LABORATORY BENCH SHEET  
MONTHLY REPORT FOR OCTOBER 2017

LEXINGTON SUPPLY

DUPAGE DISCHARGE

DAY	FREE CL <sub>2</sub> mg/l	TURBIDITY NTU	PO <sub>4</sub> mg/l	FREE CL <sub>2</sub> mg/l	TURBIDITY NTU	TEMP °F	pH	Fluoride	PO <sub>4</sub> mg/l	P.A.C. LBS/MG	ANALYST INT
1	0.95	0.10	0.56	0.92	0.09	69	7.4	0.7	0.55	0	CT
2	0.95	0.10	0.53	0.94	0.09	69	7.4	0.7	0.56	0	CT
3	1.03	0.10	0.54	1.00	0.08	68	7.5	0.7	0.59	0	RC
4	0.92	0.09	0.56	0.91	0.09	68	7.4	0.8	0.55	0	CT
5	0.94	0.09	0.53	0.93	0.09	68	7.4	0.8	0.53	0	CT
6	0.99	0.09	0.57	0.93	0.09	67	7.4	0.8	0.55	0	CT
7	0.91	0.10	0.54	0.95	0.08	67	7.3	0.7	0.55	0	RC
8	0.96	0.10	0.55	0.98	0.09	66	7.4	0.7	0.54	0	RC
9	0.94	0.10	0.54	0.90	0.09	64	7.4	0.7	0.54	0	CT
10	0.90	0.09	0.54	0.91	0.09	63	7.5	0.7	0.54	0	CT
11	0.92	0.12	0.57	0.92	0.08	63	7.4	0.8	0.59	0	RC
12	0.91	0.09	0.54	0.91	0.09	62	7.5	0.7	0.52	0	RC
13	0.90	0.09	0.54	0.91	0.09	62	7.4	0.8	0.53	0	RC
14	0.92	0.09	0.50	0.91	0.09	62	7.4	0.7	0.55	0	CT
15	0.94	0.09	0.55	0.92	0.08	62	7.4	0.7	0.53	0	CT
16	1.06	0.11	0.57	1.01	0.09	60	7.4	0.8	0.53	0	RC
17	0.97	0.11	0.55	1.01	0.09	59	7.4	0.8	0.52	0	RC
18	1.00	0.12	0.54	0.94	0.09	59	7.4	0.7	0.53	0	CT
19	0.99	0.09	0.52	0.96	0.09	59	7.5	0.8	0.52	0	CT
20	0.99	0.09	0.50	0.96	0.07	58	7.5	0.7	0.50	0	CT
21	1.06	0.09	0.54	0.95	0.07	57	7.5	0.8	0.52	0	RC
22	1.00	0.09	0.52	0.97	0.09	57	7.4	0.7	0.53	0	RC
23	1.00	0.12	0.52	0.99	0.09	57	7.4	0.7	0.55	0	CT
24	0.96	0.10	0.54	0.96	0.07	56	7.4	0.8	0.59	0	CT
25	1.01	0.09	0.57	1.00	0.09	56	7.4	0.8	0.56	0	RC
26	1.07	0.09	0.53	0.99	0.09	55	7.4	0.8	0.53	0	RC
27	1.01	0.09	0.53	0.99	0.08	55	7.4	0.8	0.56	0	RC
28	0.99	0.09	0.56	1.00	0.09	54	7.4	0.8	0.55	0	AM
29	0.96	0.09	0.59	1.00	0.08	55	7.4	0.8	0.57	0	AM
30	1.00	0.09	0.52	1.00	0.09	52	7.5	0.8	0.55	0	AM
31	0.99	0.10	0.55	0.98	0.07	52	7.4	0.8	0.54	0	KD
AVG	0.97	0.10	0.54	0.96	0.09	61	7.4	0.8	0.54	0	
MAX	1.07	0.12	0.59	1.01	0.09	69	7.5	0.8	0.59	0	
MIN	0.90	0.09	0.50	0.90	0.07	52	7.3	0.7	0.50	0	



Terrance McGhee  
Manager of Water Operations

DU PAGE WATER COMMISSION  
WATER SALES ANALYSIS

01-May-92 TO 31-Oct-17

PER DAY AVERAGE 79,502,224

MONTH	SALES TO CUSTOMERS (GALLONS)	PURCHASES FROM CHICAGO (GALLONS)	GALLONS BILLED %	BILLINGS TO CUSTOMERS	BILLINGS FROM CHICAGO	DOCUMENTED WATER USE (2)	DOCUMENTED COMMISSION WATER USE %	TOTAL ACCOUNTED FOR %	DWC OPER. & MAINT. RATE (3)	CHGO RATE
May-14	2,278,578,000	2,351,587,455	96.90%	\$9,045,954.66	\$7,797,864.00	498,618	0.02%	96.92%	\$3.97	\$3.316
Jun-14	2,389,528,000	2,472,371,532	96.65%	\$9,486,426.16	\$8,198,384.00	11,296,747	0.46%	97.11%	\$3.97	\$3.316
Jul-14	2,517,890,000	2,597,231,604	96.95%	\$9,996,023.30	\$8,612,420.00	9,644,357	0.37%	97.32%	\$3.97	\$3.316
Aug-14	2,545,942,000	2,824,634,258	97.00%	\$10,107,389.74	\$8,703,287.20	1,259,369	0.05%	97.05%	\$3.97	\$3.316
Sep-14	2,228,595,000	2,290,499,879	97.30%	\$8,847,522.15	\$7,595,297.60	1,529,007	0.07%	97.36%	\$3.97	\$3.316
Oct-14	2,059,231,000	2,118,627,503	97.20%	\$8,175,147.07	\$7,025,368.80	786,729	0.04%	97.23%	\$3.97	\$3.316
Nov-14	1,930,966,000	1,981,464,658	97.45%	\$7,665,935.02	\$6,570,536.80	772,326	0.04%	97.49%	\$3.97	\$3.316
Dec-14	1,988,067,000	2,049,776,840	96.99%	\$7,892,625.99	\$6,797,060.00	675,456	0.03%	97.02%	\$3.97	\$3.316
Jan-15	2,054,769,000	2,114,481,626	97.18%	\$9,616,318.92	\$8,062,518.44	717,028	0.03%	97.21%	\$4.68	\$3.813
Feb-15	1,886,817,000	1,941,072,846	97.20%	\$8,830,303.56	\$7,401,310.76	543,923	0.03%	97.23%	\$4.68	\$3.813
Mar-15	2,094,277,000	2,161,266,992	96.90%	\$9,801,216.36	\$8,240,911.04	965,682	0.04%	96.95%	\$4.68	\$3.813
Apr-15	1,984,985,000	2,045,765,854	97.03%	\$9,289,729.80	\$7,800,505.20	10,301,376	0.50%	97.53%	\$4.68	\$3.813
May-15	2,215,394,000	2,283,051,057	97.04%	\$10,744,660.90	\$8,705,273.68	649,444	0.03%	97.06%	\$4.85	\$3.813
Jun-15	2,196,780,000	2,266,453,659	96.93%	\$10,654,383.00	\$8,641,987.80	468,148	0.02%	96.95%	\$4.85	\$3.813
Jul-15	2,448,256,000	2,522,026,667	97.07%	\$11,874,041.80	\$9,616,487.68	6,454,619	0.26%	97.33%	\$4.85	\$3.813
Aug-15	2,723,202,000	2,807,092,033	97.01%	\$13,207,529.70	\$10,703,441.92	1,048,363	0.04%	97.05%	\$4.85	\$3.813
Sep-15	2,341,098,000	2,428,433,496	96.40%	\$11,354,325.30	\$9,259,616.92	870,425	0.04%	96.44%	\$4.85	\$3.813
Oct-15	2,188,762,000	2,260,656,685	97.25%	\$10,615,495.70	\$8,581,753.56	1,989,028	0.09%	97.34%	\$4.85	\$3.813
Nov-15	1,894,247,000	1,942,187,317	97.53%	\$9,187,097.95	\$7,405,560.24	1,150,890	0.06%	97.59%	\$4.85	\$3.813
Dec-15	1,953,066,000	2,011,680,976	97.09%	\$9,472,370.10	\$7,670,539.56	516,414	0.03%	97.11%	\$4.85	\$3.813
Jan-16	2,033,443,000	2,091,170,472	97.24%	\$9,862,198.55	\$7,973,633.01	862,718	0.04%	97.28%	\$4.85	\$3.813
Feb-16	1,888,296,000	1,941,985,366	97.24%	\$9,158,235.60	\$7,404,790.20	563,984	0.03%	97.26%	\$4.85	\$3.813
Mar-16	1,944,058,000	1,996,231,707	97.39%	\$9,428,681.30	\$7,611,617.24	6,400,732	0.32%	97.71%	\$4.85	\$3.813
Apr-16	1,984,449,000	2,039,789,593	97.29%	\$9,824,577.65	\$7,777,717.72	9,448,858	0.46%	97.75%	\$4.85	\$3.813
May-16	2,268,225,000	2,338,752,195	96.98%	\$10,887,480.00	\$8,917,662.12	274,300	0.01%	97.00%	\$4.80	\$3.813
Jun-16	2,454,342,000	2,529,910,244	97.01%	\$11,780,841.60	\$9,646,547.76	5,182,282	0.20%	97.22%	\$4.80	\$3.813
Jul-16	2,641,551,000	2,744,681,626	96.24%	\$12,679,444.80	\$10,465,471.04	585,600	0.02%	96.26%	\$4.80	\$3.813
Aug-16	2,533,936,000	2,608,237,398	97.15%	\$12,162,892.80	\$9,945,209.20	701,544	0.03%	97.18%	\$4.80	\$3.813
Sep-16	2,369,372,000	2,450,251,707	96.70%	\$11,372,985.60	\$9,342,809.76	6,309,731	0.26%	96.96%	\$4.80	\$3.813
Oct-16	2,060,379,000	2,130,675,122	96.70%	\$9,889,819.20	\$8,124,264.24	3,337,311	0.16%	96.86%	\$4.80	\$3.813
Nov-16	1,889,508,000	1,958,403,252	96.48%	\$9,069,638.40	\$7,467,391.60	9,473,395	0.48%	96.97%	\$4.80	\$3.813
Dec-16	2,041,053,000	2,106,979,512	96.87%	\$9,797,054.40	\$8,033,912.88	750,196	0.04%	96.91%	\$4.80	\$3.813
Jan-17	2,029,392,000	2,086,470,244	97.26%	\$9,741,081.60	\$7,955,711.04	650,780	0.03%	97.30%	\$4.80	\$3.813
Feb-17	1,780,930,000	1,839,102,439	96.84%	\$8,548,464.00	\$7,012,487.60	502,527	0.03%	96.86%	\$4.80	\$3.813
Mar-17	1,921,309,000	1,973,392,520	97.36%	\$9,222,283.20	\$7,524,545.68	6,065,580	0.31%	97.67%	\$4.80	\$3.813
Apr-17	1,924,126,000	1,983,669,593	97.00%	\$9,235,804.80	\$7,563,732.16	662,965	0.03%	97.03%	\$4.80	\$3.813
May-17	2,140,566,000	2,206,451,707	97.01%	\$10,445,962.08	\$8,413,200.36	379,600	0.02%	97.03%	\$4.88	\$3.813
Jun-17	2,572,903,000	2,661,987,535	96.65%	\$12,555,766.64	\$10,336,497.60	667,640	0.03%	96.68%	\$4.88	\$3.883
Jul-17	2,566,373,000	2,651,891,218	96.78%	\$12,523,900.24	\$10,297,293.60	1,208,200	0.05%	96.82%	\$4.88	\$3.883
Aug-17	2,812,422,000	2,708,475,467	96.45%	\$12,748,819.36	\$10,517,010.24	819,943	0.03%	96.48%	\$4.88	\$3.883
Sep-17	2,649,184,000	2,745,958,980	96.48%	\$12,928,017.92	\$10,662,558.72	4,256,488	0.16%	96.63%	\$4.88	\$3.883
Oct-17	2,162,489,000	2,234,875,921	96.76%	\$10,552,946.32	\$8,678,023.20	9,352,175	0.42%	97.18%	\$4.88	\$3.883
TOTALS (1)	740,563,211,798	761,608,469,640	97.24%	\$1,427,549,555.29	\$1,295,750,826.77	751,507,600	0.10%	97.34%	\$1.93	\$1.701

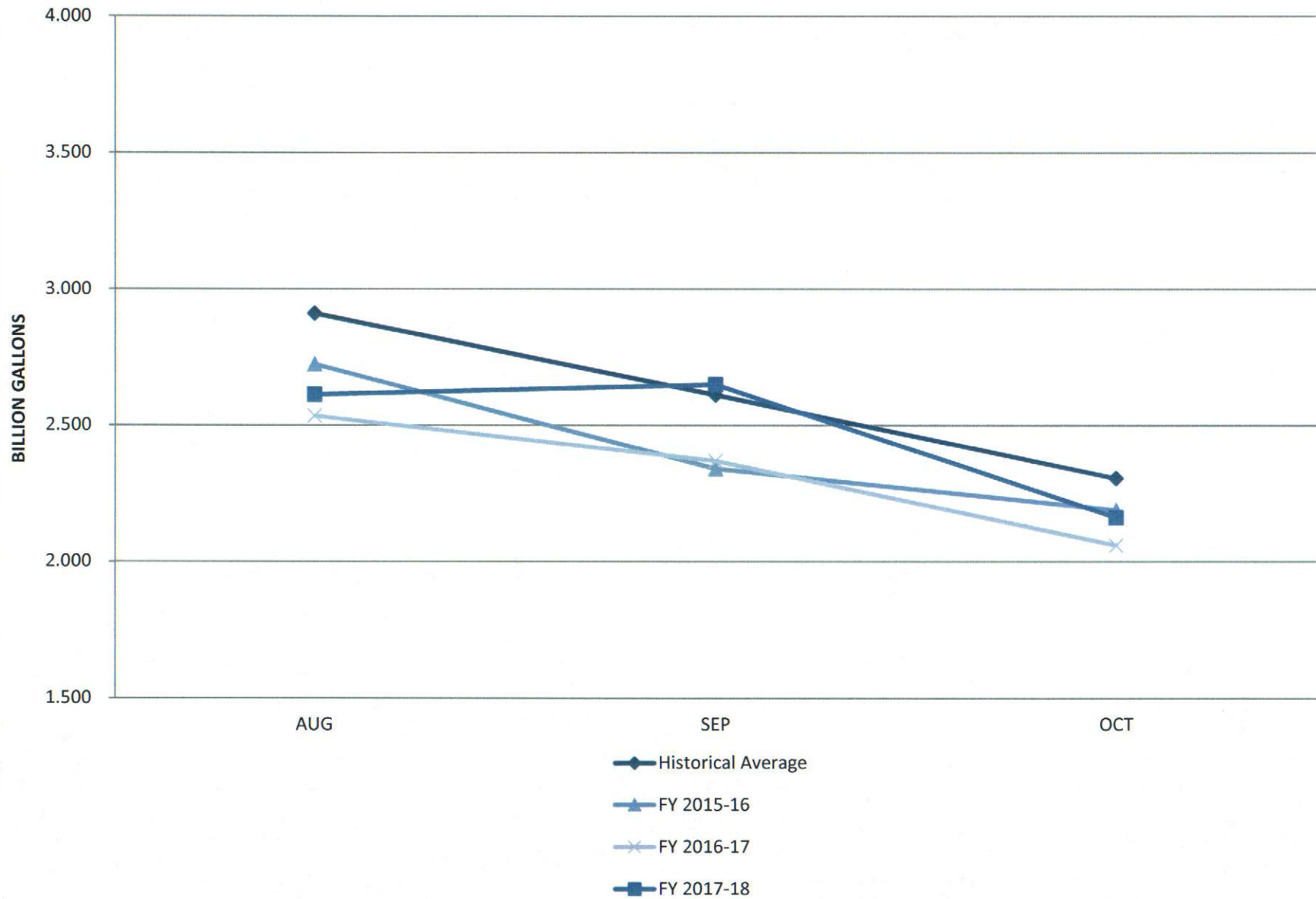
(1) - SINCE MAY 1, 1992

(2) - REPRESENTS DU PAGE PUMP STATION, METER TESTING AND CONSTRUCTION PROJECT USAGE

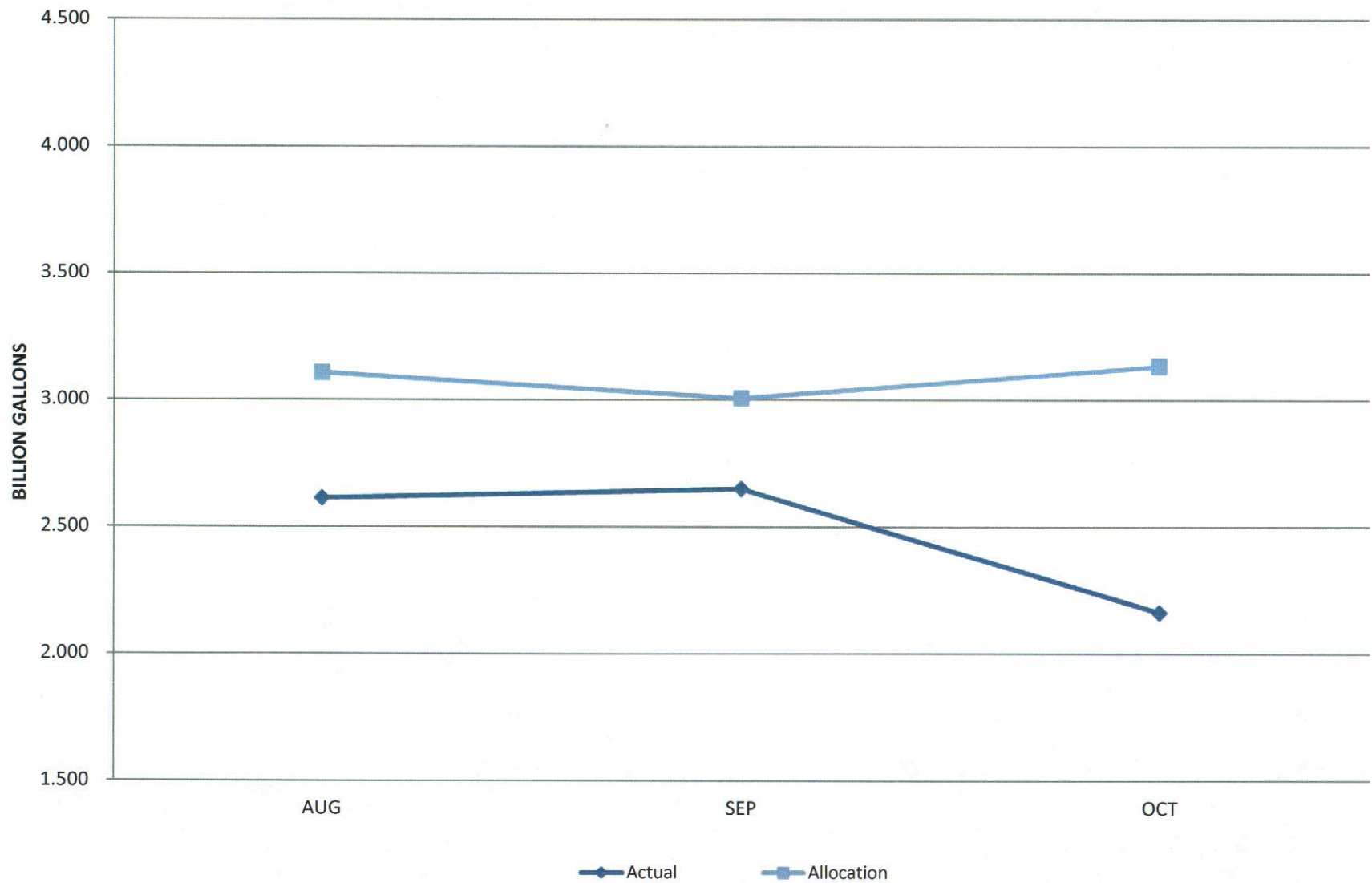
(3) - DOES NOT INCLUDE FIXED COST PAYMENTS

YTD										
Oct-16	14,327,805,000	14,802,508,292	96.79%	68,773,464	56,441,964				\$4.80	\$3.813
Oct-17	14,703,937,000	15,209,640,828	96.68%	71,755,213	58,904,584				\$4.88	\$3.873
	376,132,000	407,132,536		\$2,981,749	\$2,462,620					
	2.6%	2.8%		4.3%	4.4%					
Month										
Oct-16	2,060,379,000	2,130,675,122	96.70%	9,889,819	8,124,264				\$4.80	\$3.813
Oct-17	2,162,489,000	2,234,875,921	96.76%	10,552,946	8,678,023				\$4.88	\$3.883
	102,110,000	104,200,799		\$663,127	\$553,759					
	5.0%	4.9%		6.7%	6.8%					
Oct>Sept	(486,695,000)	(511,083,059)		(2,375,072)	(1,984,536)					

## DU PAGE WATER COMMISSION SALES FY 2017-18, 2016-17 & 2015-16 VS. HISTORICAL AVERAGE



## DU PAGE WATER COMMISSION SALES FY 2017-18 VS. ALLOCATION



DATE: November 3, 2017

## REQUEST FOR BOARD ACTION

<b>AGENDA SECTION</b>	Omnibus Vote Requiring Super-Majority or Special Majority Vote	<b>ORIGINATING DEPARTMENT</b>	Instrumentation/ Remote Facilities
<b>ITEM</b>	A Resolution Awarding 2017 Flow Meter Replacement Project Contract  Resolution No. R-38-17	<b>APPROVAL</b>	<i>[Handwritten signatures: JWR, JY, CA]</i>

Account Number: 01-60-771100

On October 2, 2017, the Commission invited sealed bids for the 2017 Flow Meter Replacement Project. The Commission advertised for bids in the Chicago Tribune and Daily Herald as required by state statute. The Commission also posted the notice of the invitation on the Commission's web site, with various plan rooms as well as direct solicitation of area contractors. Of the ten (10) contractors that held bid packages five (5) attended the mandatory pre-bid conference.

Sealed bids were received until 1:00 p.m. on October 26, 2017, at which time all bids were publicly opened and read aloud. Of the four proposals received (see tabulation below), one bidder, Continental Construction Co., Inc., the low dollar bidder was unresponsive in that they failed to submit a bid bond to assure the Commission they can complete the project for the bid amount.

The proposal of the next lowest bidder complied, in all material respects, with the requirements of the bidding documents and, therefore, staff is recommending that the proposal of Mecon Industries, Inc. is the most favorable to the interests of the Commission.

Continental Construction Co., Inc., Evanston, IL	\$376,000.00 (No Bid Bond)
Mecon Industries, Inc., Lansing, IL	\$392,000.00
Dahme Mechanical Industries, Inc., Arlington Heights, IL	\$534,870.00
Calumet City Plumbing Company, Calumet City, IL	\$694,995.00

Resolution No. R-38-17 would award the contract to the lowest responsive bidder, Mecon Industries, Inc., in the bid amount of \$392,000.00.

**MOTION:** To approve Resolution No. R-38-17.

## DUPAGE WATER COMMISSION

## RESOLUTION NO. R-38-17

A RESOLUTION AWARDING CONTRACT  
2017 FLOW METER REPLACEMENT PROJECT

WHEREAS, on September 21, 2017, the DuPage Water Commission (the "Commission") approved a Request for Board Action to authorized and directed the General Manager to advertise for bids for a contract to replace 207 water meters at the Commission's 82 meter stations in accordance with the requirements of 65 ILCS 5/11-135-5: and

WHEREAS, in full compliance with said Statute, the Commission duly advertised for bids on Contract 2017 Flow Meter Replacement Project; and

WHEREAS, based upon staffs review of the proposals received, and the staff's recommendation to the Board of Commissioners of the DuPage Water Commission, the Board of Commissioners has determined that that (a) the lowest bid is unresponsive due to material variances from the bid specifications, and (b) the proposal of Meccon Industries, Inc. is the most favorable and in the best interests of the Commission.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the DuPage Water Commission as follows:

SECTION ONE: The foregoing recitals are hereby incorporated herein as findings of the DuPage Water Commission.

SECTION TWO: The DuPage Water Commission hereby rejects the bid of Continental Construction Co., Inc. and awards a contract for the Commissions 2017 Flow Meter Replacement Project to Meccon Industries, Inc., in the bid amount of \$392,000.00, conditioned upon the receipt of all contractually required documentation.

Resolution No. R-38-17

SECTION THREE: This Resolution shall be in full force and effect from and after its adoption.

AYES:

NAYS:

ABSENT:

ADOPTED THIS \_\_\_\_ DAY OF \_\_\_\_\_, 2017.

\_\_\_\_\_  
Chairman


ATTEST:

\_\_\_\_\_  
Clerk

Board/Resolutions/R-38-17.docx

DATE: November 3, 2017

# REQUEST FOR BOARD ACTION

<b>AGENDA SECTION</b> Engineering & Construction Committee	<b>ORIGINATING DEPARTMENT</b> GIS
<b>ITEM</b> Requisition No. 49276 	<b>APPROVAL</b>
<p>Account Number: 01-60-659000</p> <p>Staff is requesting authorization to pay Infor Global Solutions Inc. for software maintenance in the amount of \$45,485.68. This expense is for the Infor Enterprise Asset Management (EAM) system, the Commission's maintenance and purchasing management program. The software maintenance fee is due annually and provides the Commission with telephone and online product support, patches, revision changes, and program updates.</p> <p>This expense was budgeted in the Annual Management Budget, but Board approval is required due to the sole source supply from the manufacturer at a cost in excess of \$20,000.00.</p>	
<p><b>MOTION: To suspend the purchasing procedures of the Commission's By-Laws and authorize the General Manager to approve Requisition No. 49276 (Infor Enterprise Asset Management System Annual Software Maintenance Agreement – Global Solutions, Inc. \$45,485.68)</b></p>	





## DuPage Water Commission

600 E. Butterfield Road

Elmhurst, IL 60126

Purchase Requisition

**Requisition:** 49276 Infor EAM Annual Software Maintenance 2018

**Req. Date:** 11/03/2017

**Status:** ARR Accounting Review  
**For Store:** DPS DuPage Pumping Station  
**Originator:** 106-0009 R5  
**Supplier:** INFOR Infor EAM

Service Line	Due date	Quantity	UOM	Units	Unit Price	Total
1	11/3/17	1			\$45,485.68	\$45,485.68

**Account** 01-60-659000-2018  
**Supplier** INFOR [Infor EAM]

**Total** 45,485.68

**Approver:**

**Date approved:**

**Requisition Comments:**

Line 1 Annual software maintenance fee for Infor EAM.

Copy of invoice is on the Documents tab.

RFBA paperwork in process.



Invoice	Invoice Date	Due Date
P - 266070-US0AB	10/16/2017	01/17/2018

## Invoice

**Bill to:** DuPage Water Commission  
 600 E. Butterfield Rd  
 Elmhurst, IL 60126  
 USA  
 Attn: Frank Frelka

**Deliver To:** DuPage Water Commission  
 600 E Butterfield Rd  
 Elmhurst, IL 60126  
 USA  
 Attn: License Site

Customer No.	Tax Reg. No.	Customer PO No.	Currency	
93537			USD	Maintenance Renewal

Description	Location	Type	QTY	Users	Start Date	End Date	Amount
Infor EAM Enterprise Edition - SQL	Elmhurst	PROD	1	31	02/17/2018	02/16/2019	30,579.35
Infor EAM Enterprise Edition Requestor	Elmhurst	PROD	1	9	02/17/2018	02/16/2019	512.51
Infor EAM Enterprise Edition Advanced Reporting Consumer	Elmhurst	PROD	1	27	02/17/2018	02/16/2019	2,817.55
Infor EAM Enterprise Edition Mobile	Elmhurst	PROD	1	3	02/17/2018	02/16/2019	1,388.70
Infor EAM Enterprise Edition GIS Module	Elmhurst	PROD	1	1	02/17/2018	02/16/2019	9,849.68
Infor EAM Enterprise Edition Barcoding	Elmhurst	PROD	1	1	02/17/2018	02/16/2019	337.89
TAX(Type RE - IL)							

Carry Forward 45,485.68



Invoice	Invoice Date	Due Date
P - 266070-US0AB	10/16/2017	01/17/2018

# Invoice

Description	Location	Type	QTY	Users	Start Date	End Date	Amount
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For renewal questions, please contact Wanda Huszar, Subscription Services Manager  
 Phone: +12193651498  
 Email: Wanda.Huszar@infor.com

**Remit to:**

Infor (US), INC.  
 NW 7418  
 PO Box 1450  
 Minneapolis, MN 55485-7418  
 USA  
 Cash.Applications@Infor.com  
 Wire to: Wells Fargo Bank  
 ABA# 121000248  
 Acct. # 4124017351

Please pay invoice by due date to avoid interruptions in support.

Net	Tax	Total:
45,485.68	0.00	45,485.68

**Payment Terms:**

See Due Date.

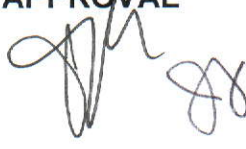

**Special Instructions:**

For questions, please contact Infor (US), Inc. at 678-319-8000 or email Infor.Collections@Infor.com

**Invoice Total:** USD 45,485.68

13560 Morris Rd. Suite 4100 Alpharetta, GA 30004 USA  
 678-319-8000 Federal ID# 20-3469219

**REQUEST FOR BOARD ACTION**

<p><b>AGENDA SECTION</b> Engineering &amp; Construction Committee</p>	<p><b>ORIGINATING DEPARTMENT</b> Operations</p>										
<p><b>ITEM</b> A Resolution Approving and Ratifying Certain Task Orders Under a Master Contract with Greeley and Hansen  Resolution No. R-39-17</p>	<p><b>APPROVAL</b>    </p>										
<p>Account No.: 01-60-711500 - \$107,000</p> <p>The Commission entered into Master Contracts with several firms for professional engineering services. Staff requested proposals from Seven (7) of these firms for Professional design services, bidding services, project management services and construction services for a metering station and connection facilities in conjunction with the Bartlett Supply Line. The project is included as a Capital Project in the Fiscal Year 2017/2018 Management Budget.</p> <p>Five (5) proposals were received, as tabulated below, and the proposal deemed most favorable to the Commission is the proposal of Greeley and Hansen.:</p> <table border="1" data-bbox="240 1197 1461 1386"> <tr> <td>Greeley and Hansen</td> <td>\$107,000</td> </tr> <tr> <td>Christopher B. Burke</td> <td>\$109,300</td> </tr> <tr> <td>Baxter &amp; Woodman</td> <td>\$139,000</td> </tr> <tr> <td>CMT</td> <td>\$152,500</td> </tr> <tr> <td>AECOM</td> <td>\$153,450</td> </tr> </table> <p>Resolution No. R-39-17 would approve the following Task Order to the Master Contract with Greeley and Hansen. This Task Order will provide Preliminary and Final Professional design services, bidding services, project management services and construction services for a metering station and connection facilities in conjunction with the Bartlett Supply Line.</p>		Greeley and Hansen	\$107,000	Christopher B. Burke	\$109,300	Baxter & Woodman	\$139,000	CMT	\$152,500	AECOM	\$153,450
Greeley and Hansen	\$107,000										
Christopher B. Burke	\$109,300										
Baxter & Woodman	\$139,000										
CMT	\$152,500										
AECOM	\$153,450										
<p><b>MOTION:</b> To adopt Resolution No. R-39-17.</p>											

## DUPAGE WATER COMMISSION

## RESOLUTION NO. R-39-17

A RESOLUTION APPROVING AND RATIFYING CERTAIN  
TASK ORDERS UNDER A MASTER CONTRACT  
WITH GREELEY AND HANSEN AT THE  
NOVEMBER 16, 2017, DUPAGE WATER COMMISSION MEETING

WHEREAS, the DuPage Water Commission (the "Commission") entered into a contract with GREELEY AND HANSEN (the "Consultant") to provide, from time to time, professional engineering services in connection with various projects of the Commission (the "Master Contract"); and

WHEREAS, the Master Contract sets forth the terms and conditions pursuant to which the Commission will obtain from time to time, and the Consultant will provide from time to time, professional engineering services for such discrete projects as are delineated and described in Task Orders to be approved by the Commission and the Consultant; and

WHEREAS, the Consultant has approved the Task Orders attached hereto and by this reference incorporated herein and made a part hereof as Exhibit 1 (the "Task Orders");

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the DuPage Water Commission as follows:

SECTION ONE: The foregoing recitals are incorporated herein and made a part hereof as findings of the Board of Commissioners of the DuPage Water Commission.

SECTION TWO: The Task Orders attached hereto as Exhibit 1 shall be and hereby are approved and, if already issued, ratified because the Board of Commissioners of the DuPage Water Commission has determined, based upon the representations of staff and the Consultant, that the circumstances said to necessitate the Task Orders were not reasonably foreseeable at the time the Master Contract was signed, the Task Orders are

germane to the Master Contract as signed, and/or the Task Orders are in the best interest of the DuPage Water Commission and authorized by law.

SECTION THREE: This Resolution shall constitute the written determination required by Section 33E-9 of Article 33E of the Criminal Code of 1961 and shall be in full force and effect from and after its adoption.

AYES:

NAYS:

ABSENT:

ADOPTED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2017.

\_\_\_\_\_  
Chairman

ATTEST:

\_\_\_\_\_  
Clerk

EXHIBIT 1

November 7, 2017



DuPage Water Commission  
Attn: Terry McGhee, Manager of Water Operations  
600 E. Butterfield Road  
Elmhurst, IL 60126

100 S. Wacker Drive, Suite 1400  
Chicago, Illinois 60606  
p 312 558 9000  
f 312 558 1006  
www.greeley-hansen.com

Subject: Request for Proposal: Bartlett Connection Facilities

Dear Mr. McGhee,

Thank you for the opportunity to submit our written proposal for the upcoming Bartlett Connection Facilities project. We understand that the DuPage Water Commission (Commission) is seeking an engineering firm to provide project management, design, bidding, and construction services for a new metering station and connection facilities to serve the Village of Bartlett.

Based on our understanding of this project, we have assembled a team that brings the following benefits to the Commission:

- **Experience** – We are proposing a team of individuals well versed in every aspect of facilities design and construction. This team has worked together on many similar projects and will partner with you to design the Bartlett Connection Facilities to be consistent with other Commission facilities while meeting the latest applicable codes and standards.
- **Local Resources** – Greeley and Hansen's facilities design professionals are all Chicago-based and located just minutes from the Commission. We have the resources the Commission needs to execute this assignment efficiently and expedite the project schedule without sacrificing the quality of deliverables.
- **Streamlined Approach** – The proposed team has a wealth experience collaborating together on projects of similar size and scope. The experience of the team and availability of resources will provide the Commission with a streamlined approach project costs. We are proposing a project schedule from notice to proceed to design completion of 10 weeks.

Greeley and Hansen has enjoyed successfully partnering with the Commission on past projects and welcome the opportunity to continue our successful collaboration on this important assignment. Thank you again for your consideration of our written proposal. We make a personal commitment to the Commission and our team is fully dedicated to achieving your goals. Should you have any questions regarding this proposal, please contact me at (312) 558-9000 or jbielanski@greeley-hansen.com

Sincerely,

Greeley and Hansen LLC

Jay Bielanski, PE, ENV SP  
Associate, Project Manager

Paul J. Vogel, PE  
Executive Vice President, Western Operations



## PROJECT UNDERSTANDING

The DuPage Water Commission (Commission) has entered into an agreement with the Village of Bartlett to provide Lake Michigan water. The water will be delivered through a 30-inch diameter watermain to the Village of Bartlett's Public Works Facility located at 150 Bittersweet Drive in Bartlett, IL. To facilitate the connection to the watermain a new metering station is required.

A preliminary location for the metering station has been chosen. The metering station will consist of a single-story building with a sub-grade vault to house the metering equipment and auxiliary building systems. To the extent possible, the Commission would like the new building to be designed and constructed to be consistent with other Commission facilities; this will allow the new building and equipment to be more easily operated and maintained by Commission staff.

## PROJECT APPROACH

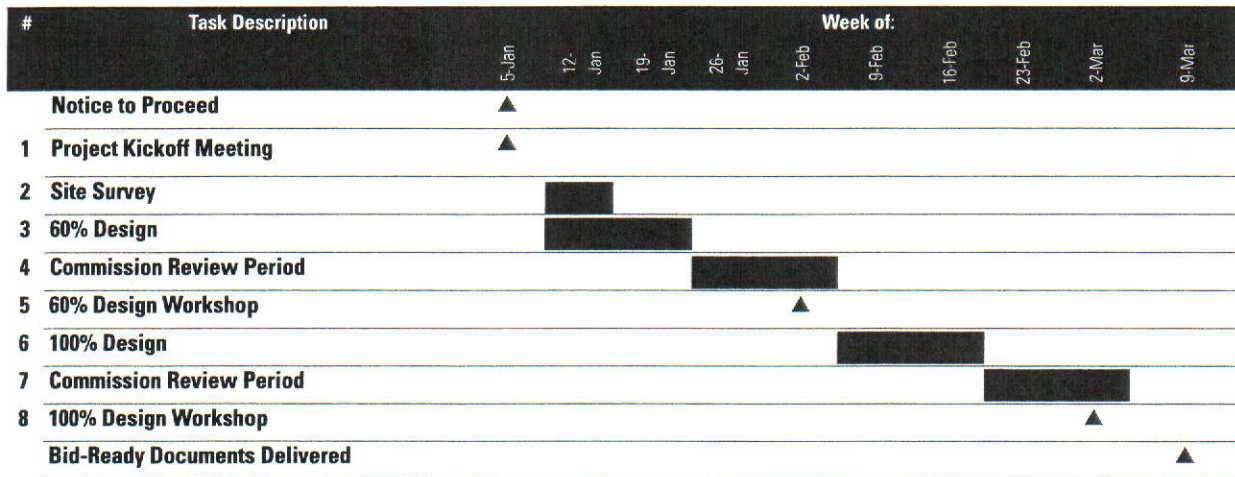
The Commission has set forth the basic requirements to complete the design of the metering station in its Request for Proposal which includes Commission Attachments A and B. The section that follows elaborates on elements of the project provided in the Request for Proposal:

- Civil/Site – The site depicted in the Commission's Attachment A will be the basis for locating the new station. The area surrounding the preliminary location will be surveyed to assist with locating the station and providing the information needed for easements and agreements with third parties. Based on the survey a final location will be chosen and a site plan will be designed with grading, access drives and sidewalks.
- Geotechnical – The Commission will provide geotechnical data for the chosen site needed to support the final location and the structural design of the new station.
- Process – The Commission will provide the location of the 30-inch watermain. At the station site, the 30-inch watermain will be split into 5 separate metering trains. The trains will be split below grade and outside of the station structure footprint. In the subgrade vault, a turbine style metering element will be installed on each train. In all other respects, the metering trains will be designed as stated in the Request for Proposal.
- Station Facilities –
  - Electrical – A new, single Commonwealth Edison service to the station will be provided. The service will power all station equipment and no backup generation will be required. The service will supply a single main distribution panelboard that will distribute power to the station's equipment. Interior and exterior lighting for the station will be provided.
  - HVAC/Plumbing – The HVAC systems will consist of electric heating and mechanical ventilation to maintain minimum and maximum temperatures as specified by the Commission. A single sump pump will be provided for the subgrade vault.
  - Instrumentation and Controls (I&C) – The Commission will provide their standard RTU for installation in the station. It is assumed that the RTU will come complete in an enclosure and will only require mounting and external connections. The design will incorporate instrumentation and controls signals for the station equipment as required. The Commission will provide its standard specifications for the radio system to be implemented at the station for communication to the Commission's SCADA system.
- Architectural – A single story building, similar to that depicted in the Commission's Attachment B will be designed. The footprint of the building will be developed based on the space required for the process and facilities equipment.
- Structural – The structural design will support the footprint of the new single story building and subgrade vault. The design will be similar to that depicted in the Commission's Attachment B.

The Greeley and Hansen team will leverage its experience and local resources and combine them with the Commission's requirements to streamline the design process and shorten the project schedule without sacrificing the quality of the construction contract documents.

## SCHEDULE

Assuming notice to proceed is received on January 1, 2018, a 10 week schedule is proposed to complete the design of the project.



## EXPERIENCE

Greeley and Hansen has a wealth of experience working with water utilities across the country to design new water treatment, conveyance, storage, metering, and connection facilities. Examples of our recent project experience in these areas are provided below.

### Waukesha Water Utility Great Lakes Water Supply Program

The City of Waukesha (City) currently obtains water from the Waukesha Water Utility (WWU) who owns a system of groundwater extraction wells that convey groundwater for treatment and then to the distribution system. For over a decade, the City has been evaluating alternatives to its aquifer level decline and increased water quality issues. The results of multiple studies yielded a single feasible solution for Waukesha, which was to apply for a water diversion from Lake Michigan. When the City of Waukesha's Application for the New Diversion of Lake Michigan Water was approved by the Great Lakes-St. Lawrence River Basin Water Resources Council, Greeley and Hansen was retained to perform Program Management and Construction Management services for this endeavor.

This Program is a multi-year, multi-million dollar effort that includes planning, design, and construction of an anticipated 45-miles of transmission and force mains, a Water Supply Pumping Station, a Water Booster Pumping Station, a Return Flow Pumping Station, outfall facilities, water supply connections, a water storage reservoir, associated chemical feed facilities, and distribution system improvements. Project elements include program management, a route study, permitting, steady state and transient hydraulic modeling of new infrastructure, water quality analyses and distribution system modeling in InfoWater to prepare the distribution system for the new water supply connection, preparation of Contract Documents, preparation of opinions of probable cost, coordination between disciplines and subconsultants, and construction management services.



Metering is a key part of the Program as the potable water diverted to Waukesha must be restored back to Lake Michigan on an annual basis. The volume of water withdrawn and returned to the lake will be regulated by the Department of Natural Resources (DNR) and will require precise metering to ensure regulatory compliance. It is anticipated that highly accurate chain of custody meters will be required where the water is delivered to WWU's system by the supplier. Another custody meter will be provided at the delivery point to the Lake Michigan watershed. The supply and return meters will be the same type and model to provide similar level of accuracy and the ability to calibrate to similar parameters.

Facilities design is another key element to the program. The Water Supply Pumping Station, Water Booster Pumping Station, Return Flow Pumping Station and other facilities are all critical to the safe and reliable delivery of water from Lake Michigan to Waukesha, but WWU is also conscious of the impact the facilities will have on the environment and its ratepayers. Detailed planning is occurring as part of the design to "right-size" the facilities including the electrical, HVAC, plumbing, and instrumentation systems for the current and future needs while also reducing the capital costs, maintenance costs, and energy costs of the lifecycles of each facility.

### Orland Park Spur Two Main

The Village of Orland Park (Village) receives water through a 36-inch transmission main (referred to as the Spur One Main), which conveys water from the Oak Lawn Regional Water System to the Village's Main Pumping Station (MPS). Oak Lawn is undergoing a comprehensive upgrade known as the Oak Lawn Regional Water System Improvements Program. As part of this Program, the Village is planning for a second transmission main (referred to as the Spur Two Main) to add system redundancy and reduce the potential for a single point of failure. The downstream end of the Spur Two Main requires discharge into existing reservoirs collocated with the MPS. The unique flow pattern through the reservoirs, as well as regulatory and metering requirements, required a new metering station and connection facility at the Spur Two Main's discharge. Greeley and Hansen was retained for the planning and design of the Spur Two Main and the new metering station and connection facility.



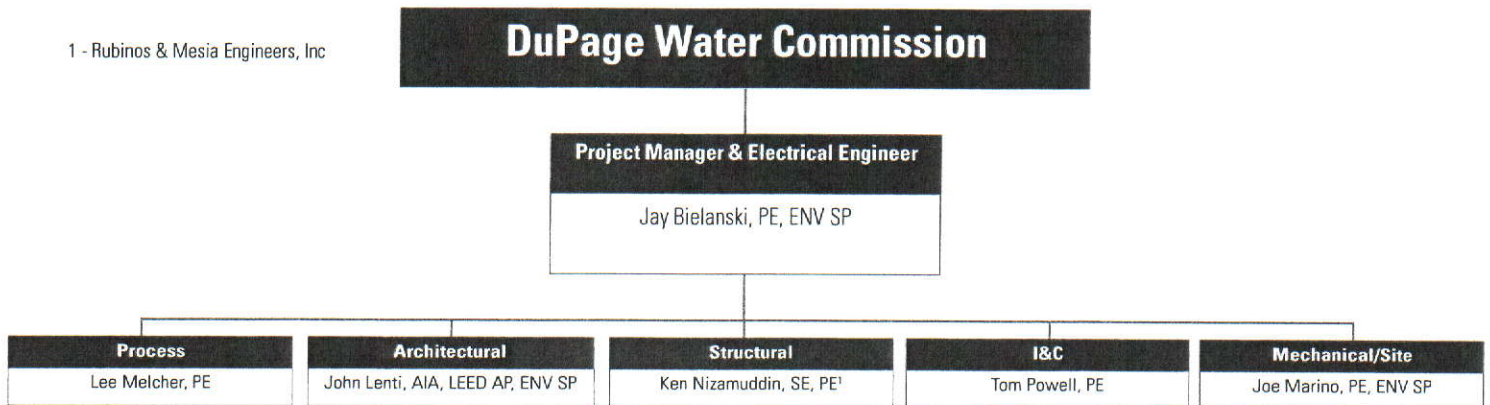
As part of the Project, various configurations for the new metering station and connection facility were developed to provide for:

- Redundant flow metering in the event of a failure;
- A modulating valve for flow control;
- An air break between the Spur Two Main and the reservoirs;
- A chlorination injection point upstream of the reservoir for water quality; and,
- A flow split to convey water equally to the west and east reservoirs.

The alternatives were compared based economic and non-economic criteria, which included accessibility, footprint, utilities, and operations and maintenance. The preferred alternative simplifies operations, provides additional redundancy, and reduces costs. Preliminary design of the metering station and connection facility has since been completed and detailed design is in progress. Preliminary design of the metering station and connection facility including the process, electrical, HVAC, plumbing, and instrumentation and control systems has since been completed and detailed design is in progress.

## Organizational Chart

Greeley and Hansen has assembled a team of experienced professionals, all Chicago-based, to best execute this assignment for the Commission. These individuals have worked together as a team to complete assignments of similar size and complexity which will result in a streamlined design that will reduce the project schedule and budget without sacrificing the quality that the Commission expects.



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## Key Staff Member Biographies



### **Jay Bielanski, PE, ENV SP – Project Manager & Electrical Engineer**

Mr. Jay Bielanski is an Electrical Engineer Associate of Greeley and Hansen with more than eight years of engineering experience in electrical distribution design and construction. Mr. Bielanski has served as project manager and electrical engineer on numerous facilities projects requiring the design of switchgears, motor control centers, motor controls, distribution transformers, underground electrical distribution systems, and lighting systems. **Jay has previous experience working with the Commission while serving as the Lead Electrical Engineer for the 2014 DuPage Pumping Station Electrical Hazard Analysis Update.**

As Project Manager and Lead Electrical Engineer, Jay will be responsible for the everyday coordination and communications associated with the project. He will be the main point for contact and will work with the Commission to deliver the Project on time and on budget. In addition, Jay will oversee the day to day activities and coordination for all disciplines while leading the electrical design for the project.



### **Lee Melcher, PE – Process**

Mr. Lee Melcher has over 14 years of experience in water and wastewater engineering. He has been responsible for the design of municipal capital improvement projects and has managed numerous projects in this field. Many of his projects include distribution system modeling, groundwater supply wells, water softening, iron removal, reservoirs, elevated water storage tanks, booster pumping stations, high service pumping, master planning and emergency needs assessment. Many of these projects also involved permitting, assistance with easement acquisition and assistance with acquiring the necessary funds to construct the project. Lee is currently serving as the process lead for both the Waukesha Water Utility Great Lakes Water Supply Program and the Orland Park Spur Two Main Program.



### **John Lenti, AIA, LEED AP, ENV SP – Architectural**

Mr. John Lenti is a licensed architect and member of Greeley and Hansen Architects. His background consists of 27 years of professional architectural design and documentation, project management, permit process coordination, construction observation, and sustainable design. With a focus on resource efficiency, Mr. Lenti develops solutions that maximize operational efficiency through good design. With extensive experience in the rehabilitation of older structures, Mr. Lenti helps clients protect that value of their existing building stock. An understanding of the economic benefit communities realize by pursuing long-term value supports his approach. Mr. Lenti also provides sustainable design consultation as an Architect, LEED AP, and as an accredited Sustainability Professional through the Institute for Sustainable Infrastructure. A member of the Institute for Sustainable Infrastructure's Community Workgroup, Mr. Lenti provides unique insight into multi-purpose and next generation infrastructure systems.



### **Ken Nizamuddin, SE, PE – Structural**

Mr. Ken Nizamuddin has more than 32 years of experience in civil and structural engineering projects. He has been responsible for the structural analysis and design of a variety of facilities including high-rise buildings, water facilities, tunnels, industrial/warehouse, educational, office, health care and commercial structures. Methods of design and analysis include both conventional and computer-aided means. Mr. Nizamuddin has been involved in conceptual as well as detailed design of structures and quality control of jobs. He has also performed peer review of jobs to ascertain adequacy of structures and for value engineering.



### **Tom Powell, PE – I&C**

Mr. Tom Powell serves as Greeley and Hansen's I&C Group Head. He brings over 29 years of Instrumentation and Controls Engineering experience for water and wastewater projects. His professional experience includes both controls engineering and electrical power engineering, allowing him to design, coordinate, and manage projects from an integrated whole project system perspective. He specializes in system integration, incorporating instrumentation, computer networks, motor controls, and process controls in a combined engineered system. He has designed electrical and control systems for wastewater treatment facilities, pumping stations, water treatment plants, reclaimed water systems, educational, and industrial facilities.



### **Joe Marino, PE, ENV SP – Mechanical/Site**

Mr. Joe Marino is a Mechanical Engineer with 9 years of experience in a wide array of design and construction projects concentrating on civil, site, mechanical, electrical applications for water and wastewater treatment, pumping, and storage facilities. Joe has Participated in projects including recreational park design, roadway/site/sports lighting design, electrical energy audits, sanitary lift station design, pump stations and site irrigation plans. His responsibilities include determining initial design criteria, evaluating design scenarios, creating exhibits, preparation of construction contract specifications and plan drawings, developing cost estimates, permit acquisition from state, county and local agencies, shop drawing review and construction observation for civil/site, mechanical/process, HVAC, and plumbing applications.

## Price Proposal

The price proposal for this project is based on the Commission's Request For Proposal and the assumptions stated in the Project Approach section. A cover sheet, 12 design drawings, and technical specifications will be provided. The Commission's bidding and contract documents will be utilized.

Office-Based Design Services During Construction will include:

- Reviewing and responding to equipment submittals and shop drawings
- Reviewing and responding to requests for information
- Reviewing and responding to contractor proposed changes
- Reviewing As-Built drawings provided by the Contractor

Construction Management and Resident Engineering Services assume a 12 week construction duration and will include:

- Attending a pre-construction meeting
- Attending monthly progress meetings with Commission and the Contractor
- Preparing Monthly Progress Reports
- Reviewing Contractor Invoices
- Preparing permitting documents
- Resident inspection services, ½ day, 2 times per week for 12 weeks
- Start-up and Commissioning services

**Total Price Proposal for Professional Services: \$107,000**