



# DuPage Water Commission

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

## AGENDA

**ENGINEERING & CONSTRUCTION COMMITTEE**  
**THURSDAY, MAY 16, 2013**  
**6:30 P.M.**

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

## COMMITTEE MEMBERS

D. Loftus, Chair  
R. Furstenau  
F. Saverino  
M. Scheck  
J. Zay

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

**RECOMMENDED MOTION: To approve the Minutes of the March 14, 2013 Engineering & Construction Committee Meeting of the DuPage Water Commission.**

- III. Report of Status of Construction/Operations
- IV. R-13-13: A Resolution Approving and Authorizing the Execution of a Master Agreements with the list of attached firms for Professional Engineering Services at the May 16, 2013, DuPage Water Commission Meeting
- V. Retain the services of Christopher B. Burke Engineering, LTD., for professional services related to the Lexington Pump Station Title Transfer in an amount not to exceed \$5,000.00.
- VI. Discussion Items
- VII. Old Business
- VIII. Other
- IX. Adjournment

Board\Agendas\Engineering\2013\Eng1305.docx

**MINUTES OF A MEETING OF THE  
ENGINEERING & CONSTRUCTION COMMITTEE  
OF THE DUPAGE WATER COMMISSION  
HELD ON THURSDAY, MARCH 14, 2013  
600 EAST BUTTERFIELD ROAD  
ELMHURST, ILLINOIS**

The meeting was called to order at 6:38 P.M.

Committee members in attendance: R. Furstenau, M. Scheck and J. Zay

Committee members absent: D. Loftus and F. Saverino

Also in attendance: C. Bostick, F. Frelka, E. Kazmierczak, T. McGhee, J. Spatz and M. Weed.

Commissioner Scheck moved to approve the Minutes of the February 21, 2013 Engineering & Construction Committee Meeting of the DuPage Water Commission. Motion seconded by Commissioner Furstenau and passed as follows:

Ayes: R. Furstenau, M. Scheck and J. Zay

Nays: None

Facilities Construction Supervisor Bostick provided an oral report highlighting the Status of Operations report;

Facilities Construction Supervisor Bostick advised that the contractor (Airy's Inc.) appears to be nearing completion of all work under Contract for DuPage County Steeple Run Service Area, Contract MS-19/12. If all work is accepted in time, then Staff may be submitting a recommendation for a time extension at the April Commission meeting.

Regarding the York Township Water Facility, Facilities Construction Supervisor Bostick advised the committee that a side letter to the agreement (O-11-12) continues under review by Oak Brook's and the Commission's legal counsel. Facilities Construction Supervisor Bostick indicated that DuPage County continues supplying water to their retail customers under the good graces of both the Village of Oak Brook and the DuPage Water Commission. DWC Staff and Legal Counsel are ramping up pressure with the Village and County to finalize the agreement.

Facilities Construction Supervisor Bostick informed the commissioners that Tank Industry Consultants, Inc. (TIC) has completed the standpipe evaluations and has submitted their report. Staff continues to work with TIC to develop the scope of work for Rider No. 2 to the engineering agreement which would authorize development of bid specifications for standpipe rehabilitation and coating work to be undertaken in FY2013/14. This Rider will be brought to the Board in either April or May.

Regarding the Customer meter calibration program, Facilities Construction Supervisor Bostick informed the commissioners that the program is ongoing and is approximately 65% complete.

Regarding the SCADA radio replacement project, Facilities Construction Supervisor Bostick informed the Commissioners that all equipment has been received and is being installed and Instrumentation/Remote Facility Supervisor Schori anticipates the installation of radios to be completed and in service by the 1<sup>st</sup> week of April.

Regarding the IT Infrastructure Upgrade Project, Facilities Construction Supervisor Bostick advised that the hardware and software is on order and installation and configuration will be performed by Sikich and DWC Staff upon receipt.

Regarding Contract VSR-1/11, Facilities Construction Supervisor Bostick advised the Committee the valve stem replacement project was approximately 88% complete and was on track to finish by May 1<sup>st</sup>.

Regarding Contract TS-8/12 for corrosion mitigation on the South Transmission Mains, Facilities Construction Supervisor Bostick advised the committee that work by John Neri Construction is in the commissioning phase and completion is expected by the end of the month.

Regarding Contract TOB-7/12, Facilities Construction Supervisor Bostick informed the committee that the Contractor, John Neri Construction had to delay the start of the project due to the recent winter storm events; however work did commence as of earlier today. Facilities Construction Supervisor Bostick reminded the Committee that a Change Order to revise the Contract Completion Date will be brought forth due to Commission delaying the award of the Contract. General Manager Spatz informed the Committee that the Contractor did experience some difficulties in receiving a permit from the City of Wheaton.

Pipeline Supervisor Kazmierczak advised the Committee that Rossi Contractors, under Contract QR-8, is excavating on 75<sup>th</sup> Street, east of IL Rte 53 in Woodridge to locate a leak on the Commission's 36" diameter transmission main. Pipeline Supervisor Kazmierczak stated that although the exact nature of the leak is unknown at this time, it is suspected that a pipe joint leak is the source and it has been leaking for quite some time. General Manager Spatz advised the Committee that the Work Authorization Order will be brought to the Board for approval at the April meeting.

General Manager Spatz informed the Committee that discussions are ongoing with the Village of Downers Grove regarding the reimbursement for repairing a damaged electrical service at Meter Station 8E. The damage was caused by a firm under contract with Downers Grove.

Commissioner Furstenau inquired with the Committee if any other business or items are to be discussed. Hearing none, Commissioner Scheck moved to adjourn the meeting at 6:50 P.M. Motion seconded by Commissioner Furstenau and passed unanimously as follows:

Ayes: R. Furstenau, M. Scheck and J. Zay

Nays: None



# 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: May 9, 2013

SUBJECT: Status of Operations

### Operations Overview

The Commission's sales for the month of April were a total of 1.994 billion gallons. This represents an average day demand of 66.5 million gallons per day (MGD), which is lower than the April 2012 average day demand of 67.6 MGD. The maximum day demand was 71.2 MGD on April 30, 2013, which is lower than the April 2012 maximum day demand of 71.6 MGD. The minimum day flow was 64.1 MGD.

The Commission's recorded total precipitation for the month of April was 8.68 inches compared to 1.65 inches for April 2012. The level of Lake Michigan for April 2013 is 576.60 (Feet IGLD 1985) compared to 577.51 (Feet IGLD 1985) for April of 2012.

### Lake Michigan Water Allocation

The Commission will be hosting a regional meeting of the Illinois Department of Natural Resources (IDNR) to accept public comments on the proposed changes to Lake Michigan water allocation rules and regulations. The Meeting will take place on May 14, 2013 from 9:30 a.m. to noon.

### Water Conservation

The Commission's water conservation related project was selected by Chicago Metropolitan Agency for Planning (CMAP) Local Technical Assistance (LTA) Program. The program includes a customer survey, development of a training manual to summarize workshops and list regional resources for our Customer's conservation coordinators to utilize and outreach materials for elected officials. The following four workshops with dates were developed based on the customer survey:

- May 29<sup>th</sup>- Utility Planning and Asset Management
- June 26<sup>th</sup>- Regulations/Ordinances
- July 31<sup>st</sup>- Indoor and Outdoor Water Use
- August 29<sup>th</sup>- Water Rates and Revenues

The Water Conservation and Protection Program attended the following conservation events in April: Argonne Earth Day for employees, GreenTown Conference and Cosley Zoo's Party for the Planet. Memos for each of these events are available on [preservingeverydrop.org](http://preservingeverydrop.org).

The Water Conservation and Protection Program will be attending Clarendon Hills' Open House on May 17, 2013.

### **Document Management**

**No Change:** Staff is reviewing SharePoint 2013 to compare features, functionality and overall costs with the Commission's current Document Management Software, Interwoven, and the Commission's current workflow software, DocMinder.

### **Facilities Construction Overview**

#### **DuPage County Service Areas**

**Steeple Run:** This project has been completed and final acceptance has been granted. Final payment to the Contractor (Airy's) has been tendered. Remaining deposit balances are available for return to DuPage County.

**York Township: No Change:** O-11-12 was approved in October to retroactively authorize the construction and operation of an interconnection between the Village of Oak Brook and the County of DuPage for interim and emergency water supply from the Village to the County's York Township Service Area. A side letter to the agreement is being reviewed by Oak Brook's, DuPage County's and the Commission's legal counsel. The Joint Facility Agreement for permanent connection facilities was executed by both Chairmen of the DWC and County Boards. The County should be working on the required easements.

#### **Standpipe Evaluations**

**No Change:** Staff will bring forth for consideration at a future date Rider No. 2 of the engineering agreement which would authorize the next phase of the work which is development of bid specifications for standpipe rehabilitation and coating work at standpipes 4E and 4W to be undertaken in FY2013/14.

Staff has met with the Lisle-Woodridge Fire District to discuss rescue service needs for these standpipes. Additional discussions with the Engineer (TIC) regarding the inclusion of anchorage points for rescue services and fall prevention systems will be held in the coming month.

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

The customer meter calibration program is complete. Preparations for the FY 2013/2014 program should be complete in order to resume in August.

Last month's flooding caused some minor damage to only 6 of the 128 remote facilities. Remediation efforts included removal of water from conduits and silt removal from station floors and pits. In addition, water entered an electrical panel at Tank Site 4E which will take additional effort to repair. Options for a permanent solution are being investigated.

### **GIS**

#### **Information Technology Infrastructure Upgrade Project**

All the SAN and server hardware is installed, configured and appears to be operating properly. Most servers were migrated to the new virtual cluster except for the document management system indexer and the Incode financial accounting reporting server, which will require coordination and an opportune time to accomplish. The SQL Server, Exchange and SharePoint software upgrades are expected to be complete next week.

#### **Infor EAM (Enterprise Asset Management)**

Work continues on enhancements to work order reports and email notifications for emergent work orders.

### **Pipeline Maintenance and Construction Overview**

#### **Contract QR-9/11**

Restoration work necessary to complete Work Authorization Order #6 (pipe joint repair at 75<sup>th</sup> Street and Rt. 53) is expected to take place within the next several weeks. Contract QR-9/11 expires on June 30 2013.

#### **Contract QR-10/13**

This contract is currently out for bids. A pre-bid meeting was held on May 7<sup>th</sup> and the bid opening is scheduled for May 20<sup>th</sup>. It is expected that a contract award resolution will be presented to the board for approval at the June Commission Meeting.

#### **Contract VSR-1/11**

This project has been completed by staff.

#### **Contract TS-8/12 (Corrosion Protection and Control for the South Transmission Main)**

John Neri Construction Company Inc. is preparing their final system testing and commissioning report. Once this report has been received, and project site restorations has been approved by IDOT and The County of DuPage Department of Transportation, the work will be completed

and a resolution recommending approval of a final balancing change order and final acceptance will be presented to the board.

Contract TOB-7/12 Corrosion Protection and Control for the Outer Belt Transmission Mains).

John Neri Construction Co Inc. is working at all 27 project sites, and is on schedule to meet their September 3, 2013 contract completion date. Payout No. 1 appears on the May 2013 accounts payable.

**MAY 2013 COMMISSION AGENDA ITEMS:**

**R-13-13** A Resolution Approving and Authorizing the Execution of a Master Agreements with the list of attached firms for Professional Engineering Services at the May 16, 2013, DuPage Water Commission Meeting

**Attachments:**

1. DuPage Laboratory Bench Sheets for April, 2013
2. Water Sales Analysis 01-April-09 to 30-April-2013
3. Chart showing Commission sales versus allocations
4. Chart showing Commission sales versus historical averages

DUPAGE WATER COMMISSION LABORATORY BENCH SHEET  
MONTHLY REPORT FOR APRIL 2013

## LEXINGTON SUPPLY

## DUPAGE DISCHARGE

DAY	LEXINGTON SUPPLY		DUPAGE DISCHARGE								ANALYST
	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	
1	0.97	0.10	0.55	0.90	0.10	38	7.5	1.1	0.54	0	AM
2	0.96	0.11	0.54	0.92	0.11	38	7.6	1.1	0.54	0	KD
3	0.98	0.11	0.54	0.90	0.10	39	7.6	1.1	0.55	0	KD
4	0.97	0.10	0.54	0.91	0.10	39	7.6	1.2	0.55	0	KD
5	0.98	0.09	0.53	0.92	0.11	40	7.6	1.2	0.54	0	AM
6	0.99	0.09	0.53	0.93	0.09	40	7.6	1.1	0.55	0	FG
7	0.99	0.10	0.56	0.90	0.10	40	7.6	1.2	0.56	0	KD
8	1.00	0.09	0.53	0.91	0.10	40	7.6	1.2	0.53	0	KD
9	1.00	0.10	0.55	0.91	0.10	42	7.6	1.2	0.56	0	AM
10	0.93	0.10	0.53	0.94	0.10	42	7.6	1.1	0.53	0	AM
11	0.96	0.12	0.54	0.90	0.11	42	7.6	1.1	0.53	0	AM
12	0.99	0.09	0.54	0.91	0.10	40	7.6	1.1	0.53	0	KD
13	1.00	0.10	0.53	0.92	0.10	42	7.6	1.1	0.53	0	KD
14	0.96	0.10	0.53	0.90	0.10	42	7.6	1.1	0.54	0	AM
15	0.98	0.09	0.52	0.91	0.10	42	7.5	1.1	0.52	0	AM
16	0.97	0.09	0.53	0.89	0.10	42	7.5	1.1	0.53	0	KD
17	0.99	0.09	0.54	0.90	0.10	44	7.6	1.1	0.53	0	KD
18	0.99	0.09	0.53	0.91	0.09	44	7.6	1.1	0.54	0	KD
19	1.12	0.09	0.56	0.92	0.10	43	7.6	1.1	0.53	0	CT
20	1.07	0.09	0.52	0.91	0.10	44	7.6	1.1	0.54	0	CT
21	1.10	0.10	0.54	0.92	0.11	44	7.6	1.1	0.53	0	FG
22	1.08	0.10	0.51	0.90	0.09	45	7.6	1.1	0.54	0	FG
23	1.15	0.09	0.53	0.93	0.09	45	7.5	1.0	0.52	0	CT
24	1.08	0.10	0.54	0.92	0.10	46	7.6	1.1	0.54	0	CT
25	1.10	0.10	0.56	0.92	0.10	46	7.6	1.0	0.52	0	CT
26	1.05	0.09	0.54	0.91	0.09	47	7.6	1.0	0.54	0	FG
27	1.02	0.11	0.56	0.93	0.11	47	7.5	1.1	0.53	0	FG
28	1.05	0.11	0.53	0.94	0.09	47	7.6	1.0	0.53	0	CT
29	1.02	0.09	0.54	0.93	0.09	47	7.6	1.0	0.55	0	CT
30	1.00	0.11	0.52	0.97	0.10	48	7.6	1.0	0.53	0	FG
31										0	
AVG	1.02	0.10	0.54	0.92	0.10	43	7.6	1.1	0.54	0	
MAX	1.15	0.12	0.56	0.97	0.11	48	7.6	1.2	0.56	0	
MIN	0.93	0.09	0.51	0.89	0.09	38	7.5	1.0	0.52	0	

  
Terrance McGhee  
Manager of Water Operations

DU PAGE WATER COMMISSION  
WATER SALES ANALYSIS

01-May-92 TO 30-Apr-13

PER DAY AVERAGE 80,877.889

MONTH	SALES TO CUSTOMERS (GALLONS)	PURCHASES FROM CHICAGO (GALLONS)	GALLONS BILLED %	BILLINGS TO CUSTOMERS	BILLINGS FROM CHICAGO	DOCUMENTED COMMISSION WATER USE (2)	DOCUMENTED COMMISSION WATER USE %	TOTAL ACCOUNTED FOR %	DWC OPER. & MAINT. RATE (3)	CHGO RATE
May-10	2,493,442,000	2,546,177,057	97.93%	\$4,587,933.28	\$5,105,085.00	1,951,633	0.08%	98.01%	\$1.84	\$2.005
Jun-10	2,379,251,000	2,435,768,080	97.68%	\$4,377,821.84	\$4,883,715.00	1,052,920	0.04%	97.72%	\$1.84	\$2.005
Jul-10	2,977,683,000	3,048,231,920	97.69%	\$5,478,936.72	\$6,111,705.00	1,342,710	0.04%	97.73%	\$1.84	\$2.005
Aug-10	2,867,253,000	2,924,004,988	98.06%	\$5,275,745.52	\$5,862,630.00	930,281	0.03%	98.09%	\$1.84	\$2.005
Sep-10	2,525,751,000	2,588,259,352	97.58%	\$4,647,381.84	\$5,189,460.00	1,085,300	0.00%	97.58%	\$1.84	\$2.005
Oct-10	2,394,743,000	2,449,952,618	97.75%	\$4,406,327.12	\$4,912,155.00	1,143,788	0.05%	97.79%	\$1.84	\$2.005
Nov-10	2,044,476,000	2,079,920,200	98.30%	\$3,761,835.84	\$4,170,240.00	955,414	0.05%	98.34%	\$1.84	\$2.005
Dec-10	2,173,930,000	2,196,014,963	98.99%	\$4,000,031.20	\$4,403,010.00	943,234	0.04%	99.04%	\$1.84	\$2.005
Jan-11	2,176,905,000	2,203,802,993	98.78%	\$4,005,505.20	\$4,418,625.00	6,094,505	0.28%	99.06%	\$1.84	\$2.005
Feb-11	1,960,872,000	1,992,314,214	98.42%	\$3,608,004.48	\$3,994,590.00	3,351,469	0.17%	98.59%	\$1.84	\$2.005
Mar-11	2,084,629,000	2,119,930,175	98.33%	\$3,835,717.36	\$4,250,460.00	875,189	0.00%	98.33%	\$1.84	\$2.005
Apr-11	2,032,022,000	2,050,900,249	99.08%	\$3,738,920.48	\$4,112,055.00	674,574	0.03%	99.11%	\$1.84	\$2.005
May-11	2,342,971,000	2,384,648,379	98.25%	\$4,779,660.84	\$4,781,220.00	603,990	0.03%	98.28%	\$2.04	\$2.005
Jun-11	2,467,779,000	2,526,763,092	97.67%	\$5,034,118.96	\$5,066,160.00	700,540	0.03%	97.69%	\$2.04	\$2.005
Jul-11	3,211,413,000	3,276,142,145	98.02%	\$6,551,276.72	\$6,568,665.00	1,090,800	0.03%	98.06%	\$2.04	\$2.005
Aug-11	2,733,016,000	2,779,503,741	98.33%	\$5,575,352.64	\$5,572,905.00	792,559	0.03%	98.38%	\$2.04	\$2.005
Sep-11	2,486,823,000	2,533,174,564	98.17%	\$5,073,028.92	\$5,079,015.00	1,078,701	0.04%	98.21%	\$2.04	\$2.005
Oct-11	2,206,656,398	2,249,745,636	98.08%	\$4,501,579.05	\$4,510,740.00	681,023	0.03%	98.11%	\$2.04	\$2.005
Nov-11	1,986,038,000	2,012,618,454	98.68%	\$4,051,517.52	\$4,035,300.00	850,000	0.04%	98.72%	\$2.04	\$2.005
Dec-11	2,046,708,000	2,072,416,459	98.76%	\$4,175,284.32	\$4,155,195.00	974,459	0.05%	98.81%	\$2.04	\$2.005
Jan-12	2,073,584,000	2,111,472,876	98.21%	\$5,660,884.32	\$5,293,462.50	978,662	0.05%	98.25%	\$2.73	\$2.507
Feb-12	1,926,054,000	1,974,613,582	97.54%	\$5,258,127.42	\$4,950,356.25	923,283	0.05%	97.59%	\$2.73	\$2.507
Mar-12	2,006,949,000	2,047,616,673	98.01%	\$5,478,970.77	\$5,133,375.00	1,394,581	0.07%	98.08%	\$2.73	\$2.507
Apr-12	2,020,132,000	2,067,114,579	97.73%	\$5,514,960.36	\$5,182,256.00	1,425,448	0.07%	97.80%	\$2.73	\$2.507
May-12	2,571,924,000	2,631,095,433	97.75%	\$7,021,352.52	\$6,596,156.25	845,168	0.03%	97.78%	\$2.73	\$2.507
Jun-12	3,400,363,000	3,498,823,295	97.19%	\$9,282,990.99	\$8,771,550.00	1,375,200	0.04%	97.23%	\$2.73	\$2.507
Jul-12	3,529,438,000	3,609,199,242	97.79%	\$9,635,365.74	\$9,048,262.50	1,048,718	0.03%	97.82%	\$2.73	\$2.507
Aug-12	2,941,022,000	3,012,931,292	97.61%	\$8,028,990.06	\$7,553,418.75	986,869	0.03%	97.65%	\$2.73	\$2.507
Sep-12	2,477,340,000	2,530,704,029	97.89%	\$6,763,138.20	\$6,344,475.00	1,328,048	0.05%	97.94%	\$2.73	\$2.507
Oct-12	2,204,646,000	2,250,972,278	97.94%	\$6,018,683.58	\$5,643,187.50	1,277,774	0.06%	98.00%	\$2.73	\$2.507
Nov-12	1,997,315,000	2,038,118,269	98.00%	\$5,452,669.95	\$5,109,562.50	1,099,388	0.05%	98.05%	\$2.73	\$2.507
Dec-12	2,051,481,000	2,091,309,334	98.10%	\$5,600,543.13	\$5,242,912.50	882,788	0.04%	98.14%	\$2.73	\$2.507
Jan-13	2,118,398,000	2,159,418,779	98.10%	\$7,033,081.36	\$6,223,444.92	836,113	0.04%	98.14%	\$3.32	\$2.882
Feb-13	1,903,034,000	1,950,611,450	97.56%	\$6,318,072.88	\$5,621,662.20	1,106,766	0.06%	97.62%	\$3.32	\$2.882
Mar-13	2,046,176,000	2,085,514,809	98.11%	\$6,793,304.32	\$6,010,453.68	1,128,463	0.05%	98.17%	\$3.32	\$2.882
Apr-13	1,987,777,000	2,035,998,626	97.63%	\$6,599,419.64	\$5,867,748.04	708,538	0.03%	97.67%	\$3.32	\$2.882
TOTALS (1)	620,333,408,798	637,708,986,907	97.28%	\$899,519,223.56	\$854,447,885.12	609,869,546	0.10%	97.37%	\$1.45	\$1.340

(1) - SINCE MAY 1, 1992

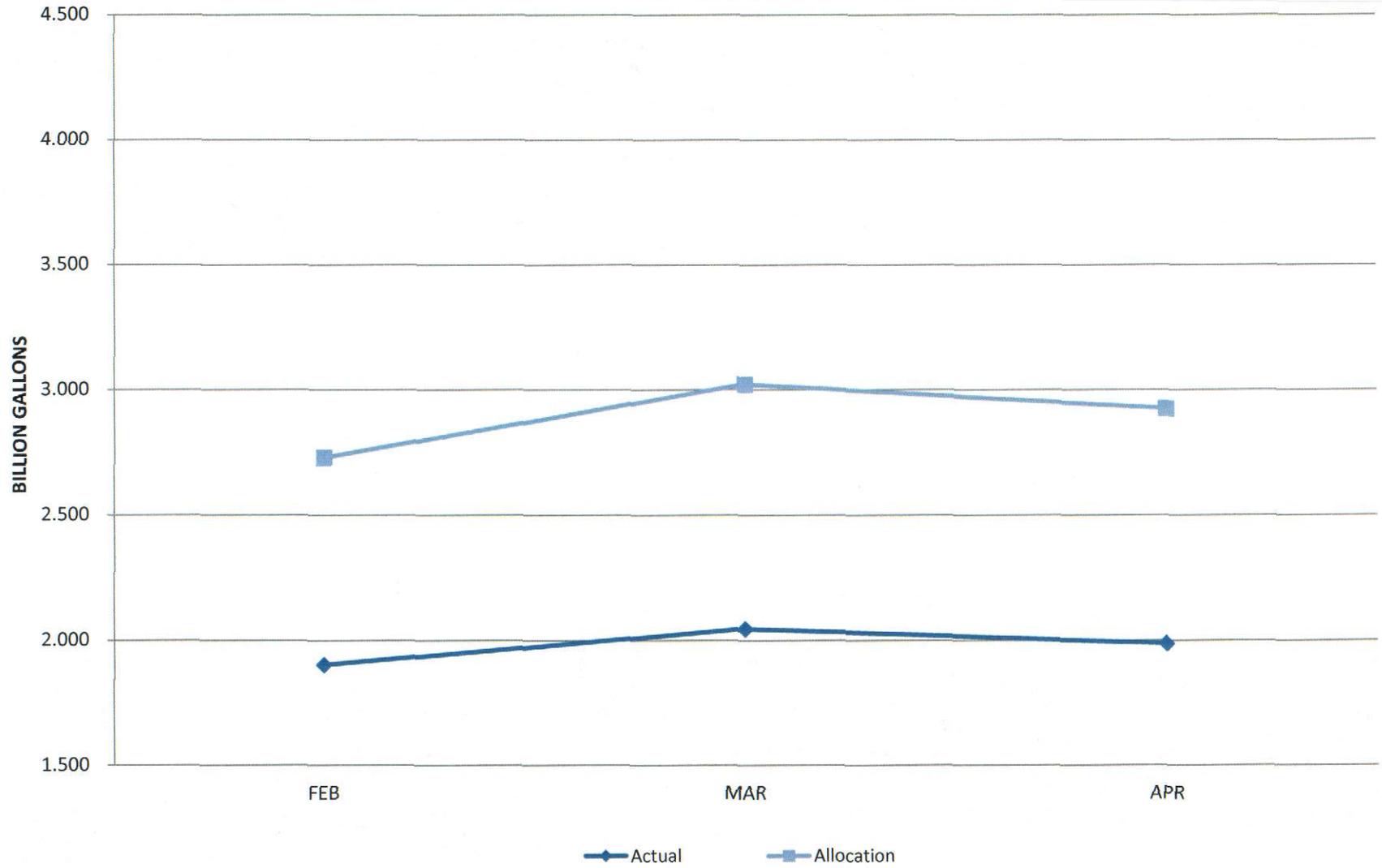
(2) - REPRESENTS DU PAGE PUMP STATION, METER TESTING AND CONSTRUCTION PROJECT USAGE

(3) - DOES NOT INCLUDE FIXED COST PAYMENTS

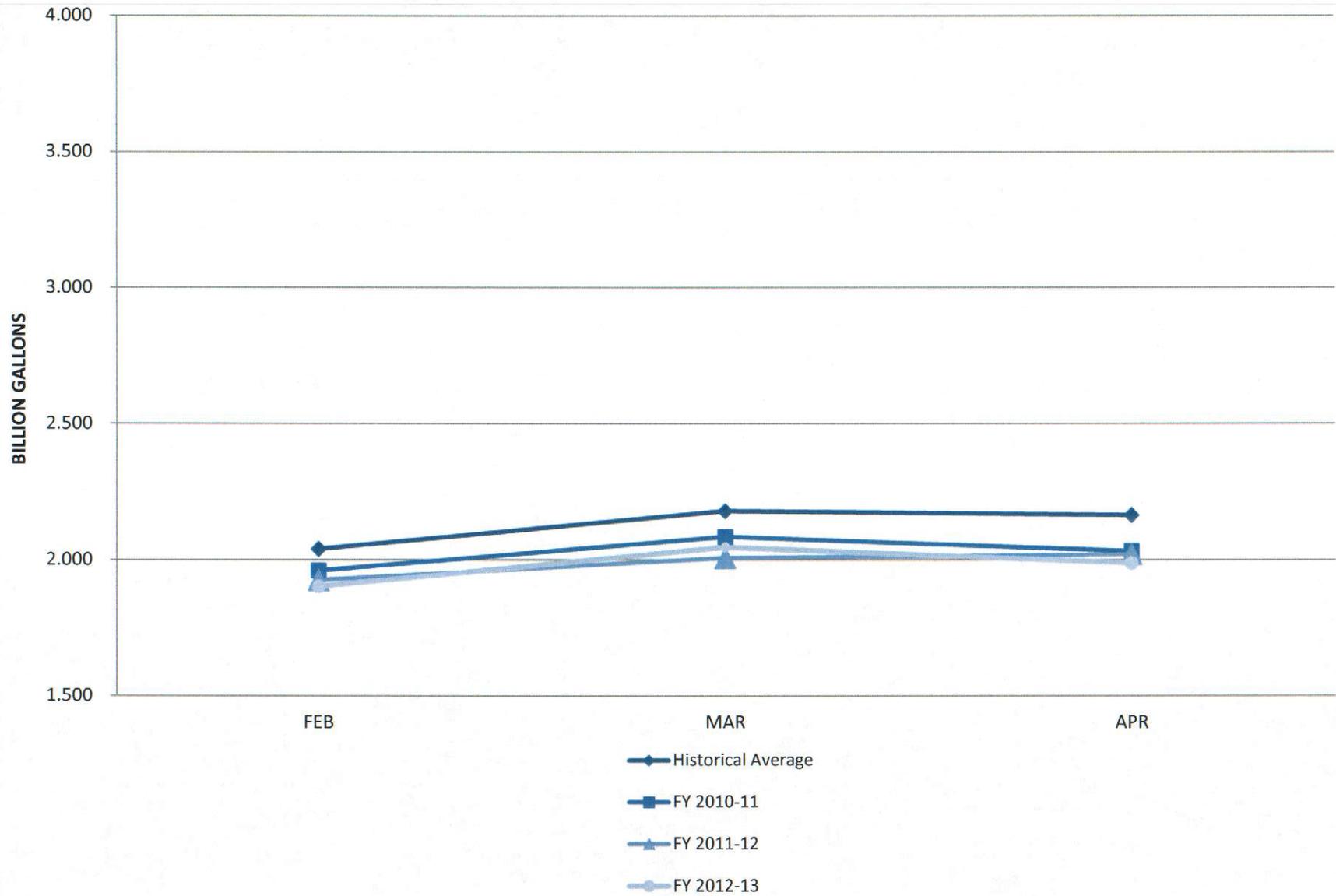
YTD

Apr-12	27,508,123,398	28,035,830,180	98.12%	\$ 61,654,762	\$ 60,328,650				\$2.24	\$2.152
Apr-13	29,228,914,000	29,894,696,836	97.77%	\$ 84,547,612	\$ 78,032,834				\$2.89	\$2.610
	1,720,790,602	1,858,866,656		\$22,892,851	\$17,704,184					
	6.26%	6.6%		37.1%	29.3%					
Month										
Apr-12	2,020,132,000	2,067,114,579	97.73%	5,514,960	5,182,256				\$2.73	\$2.507
Apr-13	1,987,777,000	2,035,998,626	97.63%	6,599,420	5,867,748				\$3.32	\$2.882
	(32,355,000)	(31,115,953)		\$ 1,084,459	\$ 685,492					
	-1.6%	-1.5%		20.9%	12.4%					
Apr>Mar	(58,399,000)	(49,516,183)		\$ (193,885)	\$ (142,706)					

## DU PAGE WATER COMMISSION SALES FY 2012-13 VS. ALLOCATION



## DU PAGE WATER COMMISSION SALES FY 2012-13, 2011-12 & 2010-11 VS. HISTORICAL AVERAGE

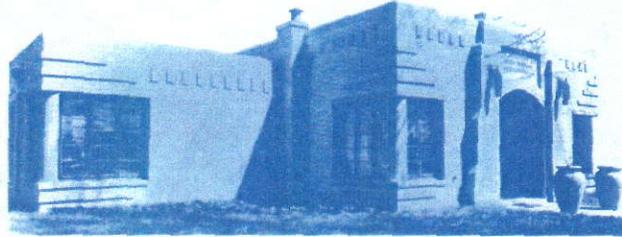


## BROOKFIELD-NORTH RIVERSIDE WATER COMMISSION

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Jean M. DiMonte, Treasurer  
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COMMISSIONERS  
Edward J. Durec, Chairman  
David B. Witken, Commissioner  
Mark Lucas, Commissioner

March 28, 2013

Board of Commissioners  
DuPage County Water Commission  
600 E. Butterfield Road  
Elmhurst, IL. 60126-4642



Re: **Brookfield-North Riverside Water Commission  
Request for Connection Consideration**

Dear Commissioners:

The Brookfield/North Riverside Water Commission is requesting consideration for an emergency water supply connection to the DuPage Water Commission. It has been brought to our attention that a connection of this type may be permitted for an "Emergency" situation, as determined by the DuPage Water Commission. It is understood that this connection would be installed and controlled by the DuPage Water Commission with the cost of the connection to be paid for by the Brookfield North Riverside Water Commission.

Attached are documents showing the point of connection, estimated flow capacities and a chart of the Commission's current system resources and water requirements as they pertain to this emergency connection. The Commission currently receives water directly from the City of Chicago at the intersection of Ogden and Cicero Avenues. This pipeline has had few upgrades since it was installed in 1938. With increases in use and the advent of the polyphosphate rules by the EPA, this connection has lost a million gallons a day in capacity since 1987. This deduction in capacity has required the Commission to supplement their supply during the summer months. Thus, the Commission has over the past 20 years purchased a contractual supplemental water supply of approximately 350-400 million gallons per year from the Village of Forest Park. This water is pumped through a 20" ductile iron transmission main to the Water Commissions facilities in North Riverside. This connection, however, does not address a growing concern by the Water Commission that a failure of the Commission's primary water main, which has multiple river crossings on it, would place the Commission in a situation of not being able to serve their customer base. The Commission is seeking an emergency connection that would provide the capability of a backup source during emergency work that may become necessary on their primary source. This connection would utilize the current supplemental water supply transmission

**Brookfield-North Riverside Water Commission**  
**Request for Connection Consideration**  
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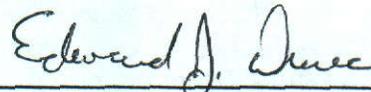
main, the 20" ductile iron pipeline from Forest Park, to deliver the emergency water to the Water Commission's North Riverside facility. Therefore the supplemental source cannot be deducted from the overall system demand. However, it should also be noted that the Commission and the customer base over the years have built reservoirs that provide approximately a three day supply, which is 50% greater than the City of Chicago requires. This has provided the Commission ample time to modify and repair minor issues within their transmission mains. The emergency connection is being requested for the major events that may occur, such as a failure in one of the river crossing. This type of emergency could not be repaired in the time frame of our current storage allows.

The Brookfield North Riverside Water Commission has funded an analysis of your supply system by your Engineers for its ability to handle the increased load without adversely affecting your customer base. The results of the study indicated your system could handle the additional loading without major changes to its operation.

Thank you in advance for your consideration of this matter.

Sincerely,

**BROOKFIELD NORTH RIVERSIDE  
WATER COMMISSION**



Edward J. Durec, Chairman

Encl:

cc: Brookfield North Riverside  
Water Commission, Encl.  
David Witken, Commissioner, Encl.  
Mark Lucas, Commissioner, Encl.  
John O'Connell, Attorney, Encl.



**BROOKFIELD-NORTH RIVERSIDE WATER COMMISSION  
CURRENT CUSTOMER BASE**

<b>MUNICIPALITY</b>	<b>2030 ALLOCATION MGD</b>	<b>2015 ALLOCATION MGD</b>	<b>2012 USAGE MGD</b>	<b>2012 PEAK MGD</b>
VILLAGE OF BROOKFIELD/ZOO	2.241	2.201	1.994	2.840
VILLAGE OF NORTH RIVERSIDE	1.038	1.013	0.888	1.484
VILLAGE OF LYONS	1.055	1.031	1.136	1.257
VILLAGE OF LAGRANGE PARK	1.305	1.273	1.215	1.524
<b>TOTAL ALLOCATION / USE</b>	<b>5.639</b>	<b>5.518</b>	<b>5.234</b>	<b>7.105</b>
<b>CAPACITY OF 20" CHICAGO FEEDER</b>			6.000	
<b>AVERAGE WATER DRAW FROM SUPPLIMENTAL</b>			1.030	
<b>SUPPLIMENTAL WATER REQUIRED (PEAK)</b>			1.105	
<b>MAXIMUM WATER DRAW (EMERGENCY)</b>			7.105	
<b>CUSTOMER STORAGE</b>				
NORTH RIVERSIDE - STANDPIPE			2.500	
LAGRANGE PARK RESERVOIR			2.500	
BROOKFIELD - ELEVATED			1.000	
BROOKFIELD ARDEN RESERVOIR			2.125	
LYONS - ELEVATED			0.250	
LYONS - RESERVOIR			1.000	
<b>TOTAL CUSTOMER STORAGE</b>			<b>9.375</b>	
<b>BNRWC STORAGE</b>				
BNRWC - DESPLAINES RESERVOIR			1.000	
BNRWC - McCORMICK RESERVOIR			1.500	
BNRWC - ARDEN RESERVOIR			2.125	
BNRWC - OGDEN AVE RESERVOIR			0.250	
BNRWC - BROOKFIELD RESERVOIR			1.500	
<b>TOTAL BNRWC STORAGE</b>			<b>6.375</b>	
<b>TOTAL SYSTEM STORAGE AVAILABLE</b>			<b>15.750</b>	<b>REQ'D 11.036</b>