



DuPage Water Commission

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

AGENDA

ENGINEERING & CONSTRUCTION COMMITTEE
THURSDAY, JANUARY 16, 2014
6:20 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 December 19, 2013 Regular Engineering & Construction Committee Meeting of the DuPage Water Commission.

- III. Report of Status of Construction/Operations
- IV. Discussion Items
- V. Old Business
- VI. Other
- VII. Adjournment

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All visitors must present a valid drivers license or other government-issued photo identification, sign in at the reception area and wear a visitor badge while at the DuPage Pumping Station.

**MINUTES OF A MEETING OF THE
ENGINEERING & CONSTRUCTION COMMITTEE
OF THE DuPAGE WATER COMMISSION
HELD ON THURSDAY, DECEMBER 19, 2013
600 EAST BUTTERFIELD ROAD
ELMHURST, ILLINOIS**

The meeting was called to order at 6:28 P.M.

Committee members in attendance: R. Furstenau, F. Saverino, and J. Zay

Committee members absent: D. Loftus and M. Scheck

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

Commissioner Saverino moved to approve the Minutes of the November 21, 2013 Engineering & Construction Committee Meeting of the DuPage Water Commission. Motion seconded by Chairman Zay and passed as follows:

Ayes: R. Furstenau, F. Saverino and J. Zay

Nays: None

Absent: D. Loftus and M. Scheck

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

Regarding the York Township Water Facility, Facilities Construction Supervisor Bostick advised the Committee that progress has been made with the County's proposed easements. The draft form of the agreements have been revised to Staff's and Commission legal counsel satisfaction, have been sent to the individual grantors for review and consent. Facilities Construction Supervisor Bostick also advised that the County has scheduled a meeting to discuss the construction contract documents and plans.

Regarding the Standpipe Evaluations, Facilities Construction Supervisor Bostick advised the Committee that the PAX mixer installation is ongoing with some defective equipment being replaced by the Contractor on 12/20/13.

Regarding Contract TOB-7/12, Facilities Construction Supervisor Bostick stated that R-33-13 appears on the agenda as a Change Order request for a Contract Time Extension; Final Completion; and release of Final Payment.

Facilities Construction Supervisor Bostick stated that a Request for Board Action appears on the agenda to approve the annual software maintenance agreement with Infor Global Solutions, Inc., for ongoing product support, revisions and feature updates. General Manager Spatz advised that this item had been included in the FY 2013/2014 Management Budget and Board authorization is required due to cost (\$37,424.25) and Infor being the sole source provider.

Commissioner Saverino moved to recommend approval of item 2 of the Engineering and Construction Committee items of the Commission Agenda. Seconded by Chairman Zay and passed unanimously as follows:

Engineering Committee Minutes 12/19/2013

Ayes: R. Furstenau, F. Saverino and J. Zay

Nays: None

Absent: D. Loftus and M. Scheck

2. Resolution No. R-33-13: A Resolution Approving and Ratifying Certain Contract TOB-7/12 Change Orders at the December 19, 2013, DuPage Water Commission Meeting **(Time Extension and Final Acceptance – No Cost)**

Commissioner Saverino moved to recommend approval of item 3 of the Engineering and Construction Committee items of the Commission Agenda. Seconded by Chairman Zay and passed unanimously as follows:

Ayes: R. Furstenau, F. Saverino and J. Zay

Nays: None

Absent: D. Loftus and M. Scheck

3. Request For Board Action – Infor Global Solutions Inc. for Software Maintenance **(In the Amount of \$37,424.25 – sole source supply)**

Regarding the Electrical Supply Contract, General Manager Spatz reminded the Committee of the previous months conversations regarding the minimum \$166,000.00 annual savings expected from the electric supplier. General Manager Spatz went on to inform the Committee that through the efforts of Manager of Water Operations McGhee having met all electrical curtailment requests during the 2013 peak electrical demand season, the Commission will now realize \$270,000.00 savings for the 2014/2015 term.

General Manager Spatz stated that with the Standpipe Rehabilitation project being pushed back, there are some budgeted funds available that Staff would like to use to perform Condition Assessments on various Commission assets. General Manager Spatz emphasized that the Commission needs to look ahead at future expenses versus revenue to coincide with the eventual loss of sales tax revenues. General Manager Spatz advised the Committee that a Condition Assessment is a tool where by outside consultants look at assets, equipment, maintenance records and use other available information and in some cases perform physical testing to determine the condition of the assets. The findings of the assessments are used for planning level capital construction costs and replacement costs of aging infrastructure. Commissioner Furstenau inquired as to the costs of such an assessment. General Manager Spatz replied that the costs are determined by the extensiveness of the scope of work; his recommendation would be to perform a fairly thorough assessment and anticipated the costs to be in the ballpark of \$500,000.00 spread out through several consulting firms assessing different types of assets such as pipelines, structures, electrical equipment and mechanical equipment. Commissioner Furstenau agreed that the assessments are a good idea; however it was his opinion that a thorough Board review would be necessary before he would approve a contract at such a high dollar value. General Manager Spatz advised that it would be Staff's intention to break out the work by requesting proposals from several pre-qualified firms and recommending contracts with several firms assigned different tasks focused on different assets. General

Engineering Committee Minutes 12/19/2013

Manager Spatz further stated that Staff will be producing scope documents for review and comment and eventual Board authorization to proceed.

Commissioner Furstenau inquired with the Committee if any other business or items are to be discussed. Hearing none, Commissioner Saverino moved to adjourn the meeting at 6:42 P.M. Motion seconded by Chairman Zay and passed unanimously as follows:

Ayes: R. Furstenau, F. Saverino and J. Zay

Nays: None

Absent: D. Loftus and M. Scheck

BOARD/MINUTES/ENGINEERING/2013/ENG131219.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: January 9, 2014

SUBJECT: Status of Operations

Operations Overview

The Commission's sales for the month of December were a total of 2.126 billion gallons. This represents an average day demand of 68.6 million gallons per day (MGD), which is higher than the December 2012 average day demand of 66.4 MGD. The maximum day demand was 73.0 MGD on December 19, 2013, which is higher than the December 2012 maximum day demand of 70.4 MGD. The minimum day flow was 64.0 MGD.

The Commission's recorded total precipitation for the month of December was 1.94 inches compared to 1.08 inches for December 2012. The level of Lake Michigan for December 2013 is 577.33 (Feet IGLD 1985) compared to 576.15 (Feet IGLD 1985) for December of 2012.

Water Conservation

No Change: Westmont was chosen as the leading-edge community for the Chicago Metropolitan Agency for Planning (CMAP) Local Technical Assistance (LTA) Program and will receive a small amount of additional training to help them implement some of the recommendations highlighted in the training. The top ideas for the additional training were: a new lawn-watering ordinance, a residential rain barrel and native plants education program, or improving their water bill legibility. CMAP and MPC presented the three main ideas to Westmont, which will be bringing the ideas to their Board in the New Year so they can rank them based on their priorities.

Staff is submitting data to MWH for the 2013 Water Conservation and Protection Program Annual Report.

Facilities Construction Overview

DuPage County Service Areas

York Township: Commission Legal Counsel and Staff have agreed to terms with the County on the required property interests. The County must now secure the property interests with the various grantors and provide title insurance as required by the IGA. Once all documents are in order, Staff would then bring forth an ordinance for Board consideration. Joint facility design has been resumed by the County. DuPage County pre-posted funds to cover the Commission's related expenses on this project are almost depleted where the County has been requested to post an additional amount sufficient to cover expenses over the length of the project.

Storage System Improvements

The PAX Mixer installation is complete and operational. Since additional electrical work was required by the mixer supplier, a request for board authorization was created to cover the additional expenses of the Commission's Quick Response Electrical (Contract QRE-6/12) contractor. This item will appear on the February agenda. The additional cost has been deducted from the mixer supplier's invoice so the net cost is neutral for the Commission.

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 FY2014/15.

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

Contract QRE-6/12

Work authorized under WAO QRE-6.006 has not been completed due to delay in receiving necessary parts for the job. It is anticipated to be scheduled and completed in January.

Instrumentation and Remote Facilities Maintenance

Installation of new chlorine residual analyzers at two of the tank sites is being scheduled for installation in January.

Meter Shop

The annual customer meter calibration program is approximately 43% complete.

Document Management

BridgePoint is wrapping up the SharePoint branding project. The goal of this was to add a professional touch to the Commission's intern-developed internal SharePoint 2013 site with improved organization and graphics. Once this is complete, the plan is to begin migrating existing documents from the iManage Desksite document management system to allow cost savings on software maintenance.

GIS

ESRI released ArcGIS version 10.2.1 which staff will install soon.

Pipeline Maintenance and Construction Overview

Contract QR-10/13

No Change:

Work authorized by R-22-13 (Work Authorization Order No. 1: manhole adjustments; pavement removal and replacement) has been suspended but will resume as soon as weather permits in 2014.

Work authorized by R-25-13 (Work Authorization Order No. 2: manhole adjustments; pavement removal and replacement) has been suspended but will resume as soon as weather permits in 2014.

Attachments:

1. DuPage Laboratory Bench Sheets for December, 2013
2. Water Sales Analysis 01-December-09 to 31-December-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 DECEMBER 2013

LEXINGTON SUPPLY

DUPAGE DISCHARGE

DAY	FREE CL ₂ mg/l	TURBIDITY NTU	PO ₄ mg/l	FREE CL ₂ mg/l	TURBIDITY NTU	TEMP °F	pH	Fluoride	PO ₄ mg/l	P.A.C. LBS/MG	ANALYST INT
1	0.94	0.10	0.56	0.93	0.10	42	7.4	0.9	0.55	0	FG
2	0.94	0.09	0.57	0.94	0.10	42	7.4	0.9	0.57	0	FG
3	0.96	0.09	0.55	0.96	0.10	42	7.4	1.0	0.56	0	CT
4	0.95	0.09	0.52	0.95	0.10	42	7.4	1.1	0.57	0	CT
5	0.93	0.10	0.58	0.90	0.10	42	7.4	1.1	0.53	0	CT
6	0.94	0.11	0.56	0.91	0.09	42	7.4	1.0	0.56	0	FG
7	0.94	0.09	0.55	0.93	0.09	42	7.4	1.0	0.54	0	FG
8	0.95	0.10	0.55	0.92	0.10	42	7.4	1.0	0.55	0	CT
9	0.92	0.10	0.52	0.94	0.10	42	7.4	1.1	0.57	0	CT
10	0.96	0.11	0.58	0.94	0.10	42	7.4	1.0	0.56	0	FG
11	0.94	0.10	0.58	0.92	0.09	42	7.4	1.1	0.54	0	FG
12	0.97	0.10	0.56	0.93	0.09	42	7.4	1.0	0.56	0	FG
13	0.97	0.10	0.58	0.92	0.10	42	7.4	1.1	0.56	0	CT
14	0.96	0.10	0.54	0.91	0.09	41	7.4	1.1	0.55	0	CT
15	0.95	0.09	0.56	0.91	0.10	41	7.4	1.0	0.56	0	FG
16	0.93	0.10	0.54	0.92	0.10	40	7.4	1.1	0.54	0	FG
17	0.94	0.09	0.54	0.93	0.10	41	7.4	1.1	0.55	0	CT
18	0.95	0.09	0.56	0.93	0.10	40	7.4	1.0	0.54	0	CT
19	0.96	0.10	0.55	0.91	0.09	38	7.4	1.1	0.51	0	CT
20	0.94	0.10	0.57	0.92	0.10	38	7.4	1.0	0.53	0	FG
21	0.94	0.09	0.55	0.92	0.09	38	7.4	1.1	0.54	0	FG
22	0.95	0.09	0.57	0.93	0.10	38	7.4	1.0	0.57	0	CT
23	0.93	0.10	0.55	0.94	0.11	37	7.4	1.0	0.56	0	CT
24	0.93	0.11	0.57	0.95	0.10	38	7.4	1.0	0.56	0	FG
25	0.93	0.09	0.55	0.94	0.09	37	7.4	1.0	0.53	0	FG
26	0.94	0.11	0.57	0.93	0.10	36	7.4	1.1	0.54	0	FG
27	0.92	0.09	0.58	0.94	0.10	37	7.5	1.0	0.56	0	AM
28	0.92	0.10	0.58	0.95	0.10	36	7.4	0.9	0.55	0	AM
29	0.93	0.10	0.54	0.93	0.10	36	7.5	1.0	0.58	0	AM
30	0.94	0.10	0.58	0.93	0.10	36	7.5	1.1	0.56	0	AM
31	0.92	0.10	0.54	0.91	0.10	36	7.5	1.0	0.54	0	CT
AVG	0.94	0.10	0.56	0.93	0.10	40	7.4	1.0	0.55	0	
MAX	0.97	0.11	0.58	0.96	0.11	42	7.5	1.1	0.58	0	
MIN	0.92	0.09	0.52	0.90	0.09	36	7.4	0.9	0.51	0	



Terrance McGhee
Manager of Water Operations

DU PAGE WATER COMMISSION
WATER SALES ANALYSIS

01-May-92 TO 31-Dec-13

PER DAY AVERAGE 80,819,580

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-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%	98.36%	\$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
May-13	2,347,910,000	2,413,837,252	97.27%	\$7,795,061.20	\$6,956,678.96	809,119	0.03%	97.30%	\$3.32	\$2.882
Jun-13	2,321,503,000	2,390,040,458	97.13%	\$7,707,389.96	\$6,888,096.60	649,245	0.03%	97.16%	\$3.32	\$2.882
Jul-13	2,829,247,000	2,911,976,489	97.16%	\$9,393,100.04	\$8,392,316.24	1,059,086	0.04%	97.20%	\$3.32	\$2.882
Aug-13	3,007,723,000	3,089,289,160	97.36%	\$9,985,640.36	\$8,903,331.36	1,323,465	0.04%	97.40%	\$3.32	\$2.882
Sep-13	2,537,241,000	2,606,351,145	97.35%	\$8,423,640.12	\$7,511,504.00	1,371,480	0.05%	97.40%	\$3.32	\$2.882
Oct-13	2,190,814,000	2,245,112,672	97.58%	\$7,273,502.48	\$6,470,414.72	763,519	0.03%	97.62%	\$3.32	\$2.882
Nov-13	1,996,890,000	2,051,521,527	97.34%	\$6,629,674.80	\$5,912,485.04	4,979,520	0.24%	97.58%	\$3.32	\$2.882
Dec-13	2,122,238,000	2,175,046,412	97.57%	\$7,045,830.16	\$6,268,483.76	749,215	0.03%	97.61%	\$3.32	\$2.882
TOTALS (1)	639,686,974,798	657,592,162,022	97.28%	\$963,773,062.68	\$911,751,195.80	621,574,195	0.09%	97.37%	\$1.51	\$1.387

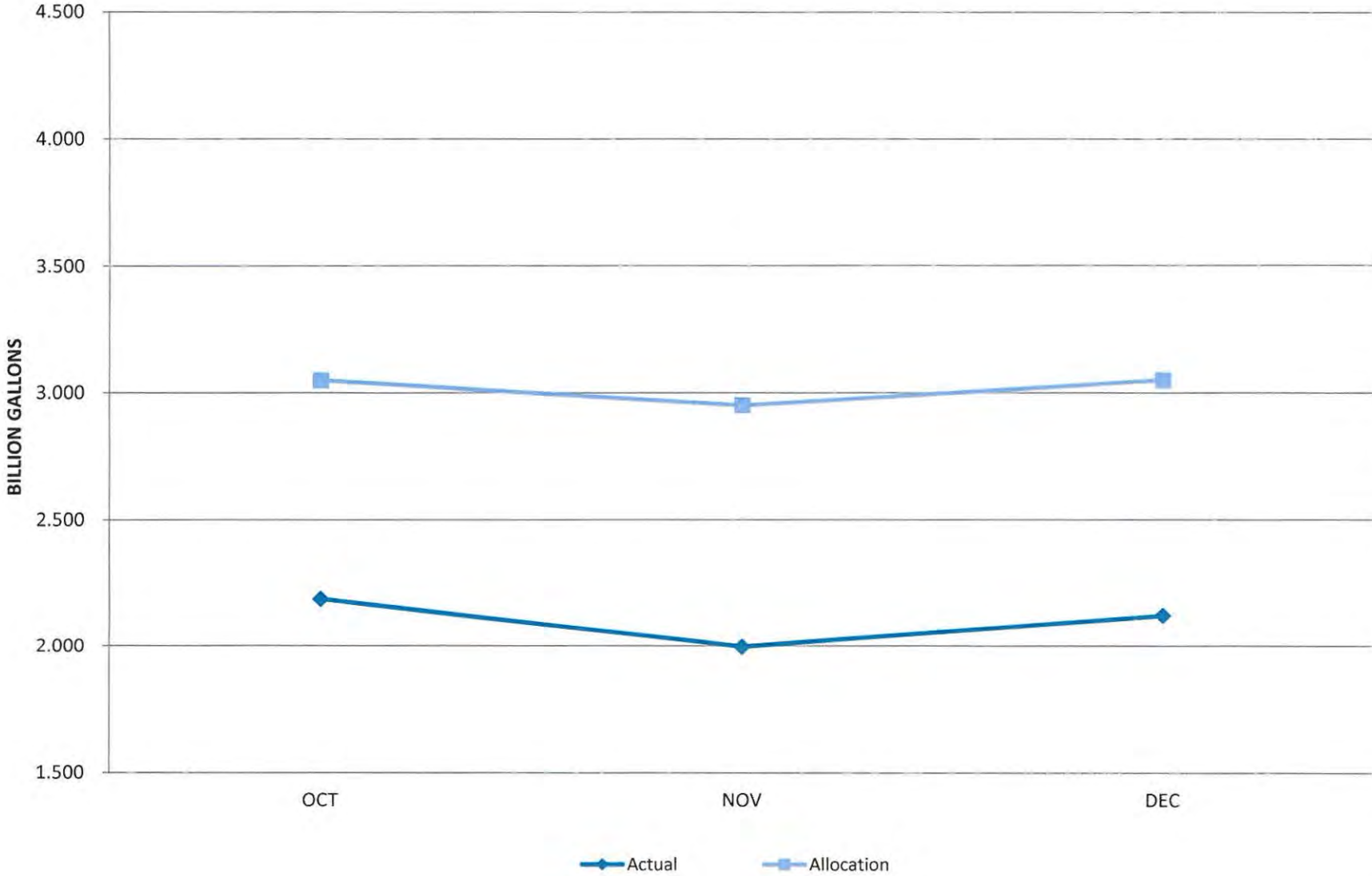
(1) - SINCE MAY 1, 1992

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

(3) - DOES NOT INCLUDE FIXED COST PAYMENTS

YTD	Dec-12	Dec-13								
	21,173,529,000	21,663,153,172	97.74%	\$	57,803,734	\$	54,309,525		\$2.73	\$2.507
	19,353,566,000	19,883,175,115	97.34%	\$	64,253,839	\$	57,303,311		\$3.32	\$2.882
	(1,819,963,000)	(1,779,978,057)			\$6,450,105		\$2,993,786			
	-8.6%	-8.2%			11.2%		5.5%			
Month										
	2,051,481,000	2,091,309,334	98.10%		5,600,543		5,242,913		\$2.73	\$2.507
	2,122,238,000	2,175,046,412	97.57%		7,045,830		6,268,484		\$3.32	\$2.882
	70,757,000	83,737,078		\$	1,445,287	\$	1,025,571			
	3.4%	4.0%			27.6%		18.3%			
Dec>Nov	125,348,000	123,524,885		\$	416,155	\$	355,999			

DU PAGE WATER COMMISSION SALES FY 2013-14 VS. ALLOCATION



DU PAGE WATER COMMISSION SALES FY 2013-14, 2012-13 & 2011-12 VS. HISTORICAL AVERAGE

