



# DuPage Water Commission

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

## AGENDA

**ENGINEERING & CONSTRUCTION COMMITTEE**  
**THURSDAY, FEBRUARY 16, 2012**  
**6:30 P.M.**

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

## COMMITTEE MEMBERS

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

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

**RECOMMENDED MOTION: To approve the Minutes of the January 19, 2012 Engineering & Construction Committee Meeting of the DuPage Water Commission.**

- III. Report of Status of Construction/Operations
- IV. R-5-12 - A Resolution Awarding a Contract for the Valve Stem Riser Fabrication (Contract VSR-1/11) and Repealing Resolution No. R-38-06, being "A Resolution Authorizing Advertisement for Bids on a Contract for the Replacement of Valve Stem Risers (Contract VSR-1/06)".
- V. R-6-12 - A Resolution Approving and Ratifying Certain Change Orders to the Contract for Supply of Engine Generator Units at the February 16, 2012, DuPage Water Commission Meeting
- VI. Discussion Items
- VII. Old Business
- VIII. Other
- IX. 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, JANUARY 19, 2012  
600 EAST BUTTERFIELD ROAD  
ELMHURST, ILLINOIS**

The meeting was called to order at 6:30 P.M.

Committee members in attendance: R. Furstenau, M. Scheck and D. Loftus and J. Zay  
(*ex officio*)

Committee members absent: F. Saverino

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

Commissioner R. Furstenau moved to approve the Minutes of the December 20, 2011 Engineering & Construction Committee Meeting of the DuPage Water Commission.  
Motion seconded by Commissioner Scheck and passed unanimously as follows:

Ayes: R. Furstenau, M. Scheck and D. Loftus

Nays: None

Absent: F. Saverino

Non-Voting Member: J. Zay (*ex officio*)

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

Regarding Water Conservation, Facilities Construction Supervisor Bostick indicated that Manager of Water Operations McGhee would be creating the 2011 annual report which would be available by the end of the 1<sup>st</sup> quarter of 2012.

Regarding the DPWC.org website, Commissioner Furstenau stated that he had some navigation issues on the new website which he subsequently reported and was thankful for having his issues addressed in a timely manner.

Regarding PSD-7, DPPS Electrical Generation facilities, Facilities Construction Supervisor Bostick informed the committee that as of the January 19<sup>th</sup> progress meeting, both the engineer and the contractor reported an impasse as to an agreement on the cost of remedial work.

Regarding the DuPage County Steeple Run Service Area, Facilities Construction Supervisor Bostick advised Engineer, DWC and DuPage County continue working on the preliminary design. Commissioner Furstenau inquired as to the progress of the

County in providing Lake Michigan water to the pockets of currently un-serviced areas. Facilities Construction Supervisor Bostick advised that with the work towards servicing the York Township area, another large portion will then be served.

Commissioner Furstenau inquired as to the cost of the FleetMatics equipment and program costs versus the saving to be expected. Facilities Construction Supervisor Bostick advised that he did not have the information at hand however the Commission has already realized a potential for cost savings by determining that a number of 2-way radios in the fleet were operational only with the engines idling. Since this was found, the radios have been rewired to run in the vehicle accessory mode which should net reduced idling time and therefore less fuel dollars spent. Commissioner Furstenau requested a report on the program cost to benefit aspects.

Commissioner Scheck moved to recommend approval of R-1-12 – A resolution Approving and Ratifying Certain Work Authorization Orders Under Quick Response Electrical Contract QRE-5/10. Seconded by Commissioner Furstenau and unanimously approved by a Roll Call Vote:

Ayes: R. Furstenau, M. Scheck and D. Loftus

Nays: None

Absent: F. Saverino

Non-Voting Member: J. Zay (*ex officio*)

Commissioner Furstenau suggested that with light agendas for the Engineering and Construction Committee, that a later start time be considered. Chairman Loftus stated that he would take the matter under advisement.

Commissioner Scheck moved to adjourn the meeting at 6:56 P.M. Motion seconded by Commissioner Furstenau and passed unanimously as follows:

Ayes: R. Furstenau, M. Scheck and D. Loftus

Nays: None

Absent: F. Saverino


Non-Voting Member: J. Zay (*ex officio*)



# 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: February 9, 2012

SUBJECT: Status of Operations

### Operations Overview

The Commission's sales for the month of January were a total of 2.078 billion gallons. This represents an average day demand of 67.0 million gallons per day (MGD), which is lower than the January 2011 average day demand of 70.4 MGD. The maximum day demand was 69.9 MGD on January 16, 2012, which is lower than the January 2011 maximum day demand of 72.6 MGD. The minimum day flow was 64.1 MGD. The Commission's recorded total precipitation for the month of January was 1.86 inches compared to 0.92 inches for January 2011. The level of Lake Michigan for January 2012 is 577.41 (Feet IGLD 1985) compared to 576.81 (Feet IGLD 1985) for January of 2011.

### Water Conservation

Work has begun on creating the 2011 Annual report which will be available in the first quarter of 2012. The Commission will be working with the Conservation Foundation to prepare a press release regarding water conservation. There has been a lot of press regarding rising water prices and concerns about water supply in our region. The Goal of this press releases would be to inform people why the rate increases are necessary and to change their attitudes about water usage.

### Document Management

Staff has created workflows that will be utilized through DocMinder, a Document Management add-on, for board preparation procedures as well as other procedural

needs. Staff will fully implement the DocMinder system for the March board meeting items.

The Commission's new leased copiers/printers have been outfitted with software that will allow employees to directly scan into the Document Management System.

Work continues to complete the document inventory that will be sent to the Secretary of State for their destruction authorization.

### **Facilities Construction Overview**

#### **Contract PSD-7 DPPS Electrical Generation**

The Engineer has tendered a memorandum regarding costs for remediation and betterment of the constructed facilities.

#### **Contract PSC-5 Lexington Photovoltaic Cells**

No Change: The Contractor is waiting on the City to establish an internet connection in order to display the PV system data on the internet. This is the final work required before closing out the contract.

#### **Supply of Engine Generator Units**

Resolution R-6-12 appears on the agenda. This resolution would approve a reduction in the quantities of spare parts to be delivered to both the DuPage and Lexington pumping stations and thereby reducing the contract Price by \$39,175.67 for and also provide Final Acceptance of the Work. Final Payment would take place upon acceptance by the City of Chicago, when all contractually required documentation is received and the balances of spare parts are received.

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

**Steeple Run:** DWC and DuPage County continue to review the preliminary design specifications and drawings.

**York Township:** We have been requested to develop a joint connection facility agreement for future board consideration.

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

#### **Annual Customer Meter Calibration Program**

The program is approximately 47% complete.

### Remote Facilities Maintenance

Annual meter station inspections and calibrations are approximately 50% complete. During these inspections external thermostats are being added to the electric heaters for better control and to save on electric costs.

### Contract QRE-5/10 (Quick Response Electrical Contract)

No change in status: Work Authorization Order # QRE-5.002 to repair the electrical service entrances at various meter stations is being scheduled with ComEd to cut services so the work can be performed.

Work Authorization Order # QRE-5.004 to relocate the service line for ROV29A control cabinet was completed on January 30<sup>th</sup>.

## GIS

### Infor EAM

The Infor EAM 8.5 Advanced Mobile application used to perform equipment and facility inspections and generate work orders is not performing to specs. Blue Dot, the Infor subcontractor that developed the program's user interface used by handheld data entry devices, is set to release a new version of the program in February which will be installed on the Commission's devices. Because of this testing is suspended until the new version is installed. Assuming the program then works as expected testing should be completed in February.

Staff is working on uploading Grainger catalog data to Infor EAM to streamline the parts ordering process.

### ArcGIS Server Web Site

Work continues on a new GIS web site using ArcGIS Server version 10.

## Pipeline Construction Overview

### Contract VSR-1/11

Proposals for the fabrications of Valve Stem Risers were opened on January 23<sup>rd</sup>. The proposal of Weld All, Inc. was deemed the most favorable to the Commission. Resolution R-5-12 appears on the agenda which recommends award of a contract to Weld All, Inc. This resolution also repeals an earlier authorizing resolution (R-38-06) where a major portion of the work was intended to be undertaken by a contractor and now this work will be performed in-house and at a significant savings.

Contracts TOB-7/11 and TS-8

Work continues on project design and contract specifications for the Outer Belt Transmission Main Corrosion Mitigation Contract and the South Transmission Main Corrosion Mitigation Project (EN Engineering Task Order Nos. 13 and 6).

Contract QR-9 (Quick Response Contract)

There are no active work authorizations at this time.

**Operations Construction and Maintenance Overview**High Lift Pump #4 Motor Re-Build

Repair of the motor for HLP #4 is in process and completion is expected by March 19, 2012 and re-installation completed by April 1, 2012. Total cost of removal, testing, repairing and reinstalling motor is \$36,694.

DuPage Pump Station Equipment and Facility

Annual maintenance and testing of the switchgear and motor relays was completed on February 3, 2012.

**FEBRUARY 2012 COMMISSION AGENDA ITEMS:**

**R-5-12** - A Resolution Awarding a Contract for the Valve Stem Riser Fabrication (Contract VSR-1/11) and Repealing Resolution No. R-38-06, being "A Resolution Authorizing Advertisement for Bids on a Contract for the Replacement of Valve Stem Risers (Contract VSR-1/06)"

**R-6-12** - A Resolution Approving and Ratifying Certain Change Orders to the Contract for Supply of Engine Generator Units at the February 16, 2012, DuPage Water Commission Meeting

## Attachments:

1. DuPage Laboratory Bench Sheets for January, 2012
2. Water Sales Analysis 01-May-09 to 31-January- 2012
3. Chart showing Commission sales versus allocations
4. Chart showing Commission sales versus historical averages

EPA0112

DUPAGE WATER COMMISSION LABORATORY BENCH SHEET  
MONTHLY REPORT FOR JANUARY 2012

## 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 mg/l	PO <sub>4</sub> mg/l	P.A.C. LBS/MG	ANALYST INT
1	0.81	0.09	0.50	0.81	0.10	46	7.6	1.1	0.51	0	AM
2	0.82	0.10	0.49	0.80	0.10	46	7.7	1.1	0.52	0	KD
3	0.81	0.10	0.52	0.81	0.11	46	7.7	1.0	0.50	0	KD
4	0.80	0.11	0.51	0.79	0.10	46	7.7	1.0	0.51	0	AM
5	0.80	0.09	0.49	0.81	0.10	46	7.7	1.1	0.52	0	AM
6	0.82	0.10	0.51	0.82	0.10	46	7.7	1.1	0.51	0	AM
7	0.79	0.10	0.52	0.80	0.10	46	7.7	1.1	0.50	0	KD
8	0.79	0.09	0.49	0.81	0.10	46	7.6	1.1	0.51	0	KD
9	0.82	0.12	0.51	0.81	0.10	46	7.7	1.0	0.50	0	AM
10	0.84	0.09	0.51	0.81	0.11	44	7.7	1.1	0.49	0	AM
11	0.81	0.10	0.49	0.80	0.10	44	7.7	1.1	0.48	0	KD
12	0.80	0.09	0.52	0.79	0.10	44	7.7	1.1	0.49	0	KD
13	0.81	0.11	0.50	0.81	0.11	44	7.6	1.0	0.49	0	KD
14	0.80	0.10	0.49	0.80	0.09	43	7.7	1.1	0.48	0	AM
15	0.82	0.10	0.51	0.81	0.09	42	7.7	1.1	0.52	0	AM
16	0.83	0.10	0.52	0.80	0.10	43	7.7	1.1	0.49	0	KD
17	0.83	0.10	0.49	0.82	0.10	42	7.6	1.1	0.52	0	KD
18	0.79	0.09	0.48	0.80	0.09	42	7.6	1.1	0.49	0	AM
19	0.80	0.09	0.48	0.81	0.10	42	7.6	1.0	0.50	0	AM
20	0.81	0.11	0.50	0.80	0.10	41	7.7	1.1	0.51	0	AM
21	0.81	0.09	0.48	0.83	0.09	41	7.7	1.1	0.53	0	KD
22	0.80	0.09	0.50	0.79	0.08	39	7.7	1.1	0.53	0	KD
23	0.84	0.09	0.50	0.80	0.09	39	7.7	1.1	0.51	0	KD
24	0.81	0.09	0.52	0.81	0.10	39	7.7	1.1	0.50	0	AM
25	0.80	0.09	0.51	0.81	0.10	39	7.6	1.1	0.52	0	KD
26	0.82	0.09	0.52	0.83	0.10	38	7.7	1.0	0.51	0	KD
27	0.81	0.09	0.51	0.82	0.10	38	7.7	1.1	0.50	0	KD
28	0.80	0.10	0.50	0.82	0.08	37	7.7	1.0	0.49	0	CT
29	0.83	0.10	0.49	0.84	0.08	37	7.6	1.1	0.50	0	CT
30	0.83	0.10	0.50	0.84	0.09	37	7.7	1.1	0.50	0	FG
31	0.82	0.10	0.51	0.82	0.10	37	7.6	1.1	0.49	0	FG
AVG	0.81	0.10	0.50	0.81	0.10	42	7.7	1.1	0.50	0	
MAX	0.84	0.12	0.52	0.84	0.11	46	7.7	1.1	0.53	0	
MIN	0.79	0.09	0.48	0.79	0.08	37	7.6	1.0	0.48	0	

  
Terrance McGhee  
Manager of Water Operations



DU PAGE WATER COMMISSION  
WATER SALES ANALYSIS

01-May-92 TO 31-Jan-12

PER DAY AVERAGE 81,102,060

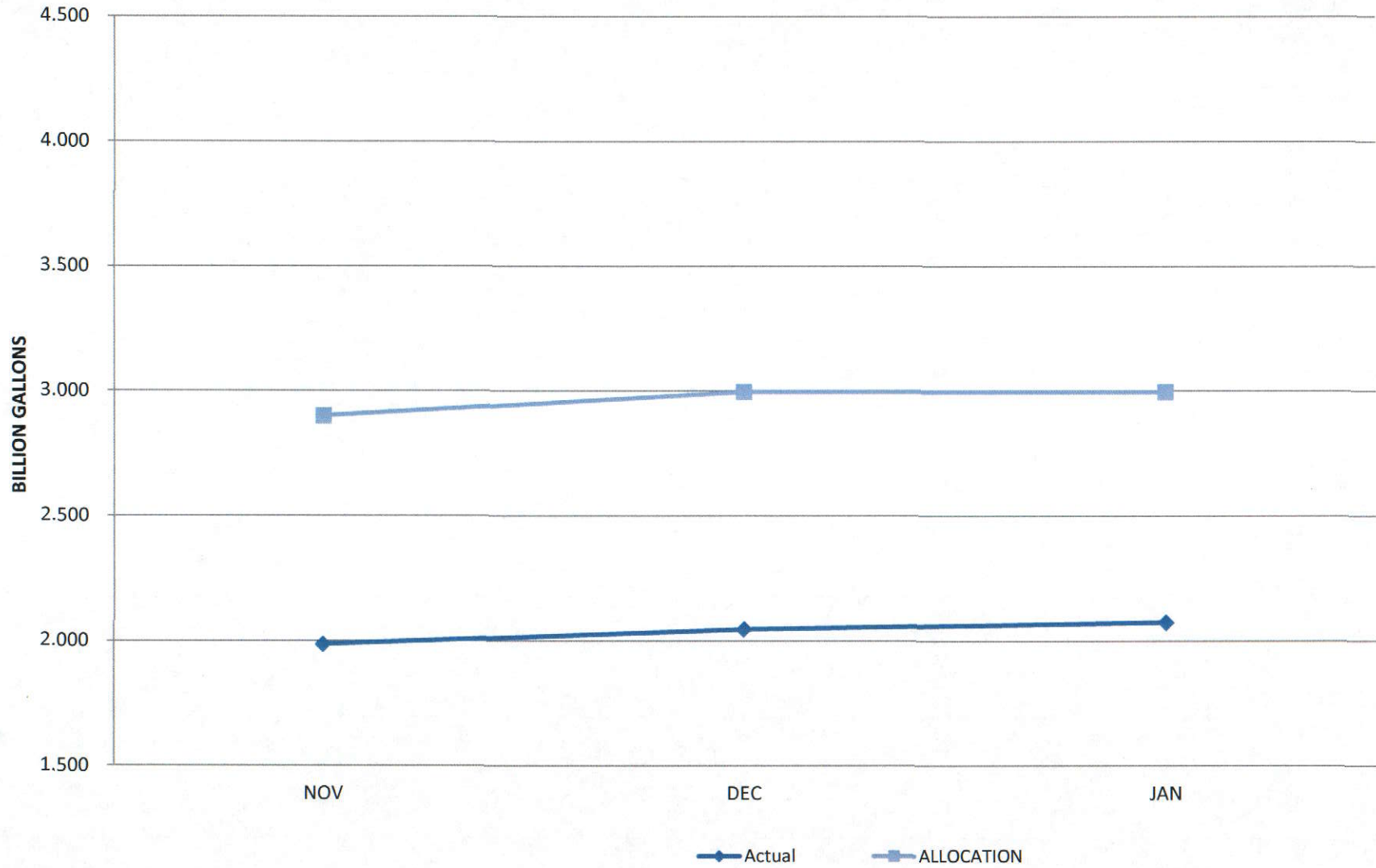
MONTH	SALES TO CUSTOMERS (GALLONS)	PURCHASES FROM CHICAGO (GALLONS)	GALLONS BILLED %	BILLINGS TO CUSTOMERS	BILLINGS FROM CHICAGO	DOCUMENTED COMMISSION WATER USE (2)	DOCUMENTED COMMISSION WATER USE %	TOTAL ACCOUNTED FOR %	DWC OPER. & MAINT. RATE (3)	CHGO RATE
May-09	2,446,586,000	2,522,765,415	96.98%	\$3,620,947.28	\$4,435,021.60	2,189,800	0.09%	97.07%	\$1.48	\$1.758
Jun-09	2,517,674,000	2,587,363,481	97.31%	\$3,726,157.52	\$4,548,585.00	2,202,450	0.09%	97.39%	\$1.48	\$1.758
Jul-09	2,888,499,000	2,971,742,918	97.20%	\$4,274,978.52	\$5,224,324.05	2,030,397	0.07%	97.27%	\$1.48	\$1.758
Aug-09	2,931,183,000	3,010,833,874	97.35%	\$4,338,150.84	\$5,293,045.95	7,554,834	0.25%	97.61%	\$1.48	\$1.758
Sep-09	2,614,552,000	2,691,957,594	97.12%	\$3,869,536.96	\$4,732,461.45	1,994,945	0.07%	97.20%	\$1.48	\$1.758
Oct-09	2,155,177,000	2,204,779,266	97.75%	\$3,189,661.96	\$3,876,001.95	2,141,324	0.10%	97.85%	\$1.48	\$1.758
Nov-09	2,003,572,000	2,054,392,036	97.53%	\$2,965,286.56	\$3,611,621.20	2,224,921	0.11%	97.63%	\$1.48	\$1.758
Dec-09	2,124,149,000	2,174,881,342	97.67%	\$3,143,740.52	\$3,823,441.40	2,335,534	0.11%	97.77%	\$1.48	\$1.758
Jan-10	2,152,708,000	2,207,536,160	97.52%	\$3,186,007.84	\$4,426,110.00	2,148,128	0.10%	97.61%	\$1.48	\$2.005
Feb-10	1,920,433,000	1,956,112,219	98.18%	\$2,842,240.84	\$3,922,005.00	1,920,979	0.10%	98.27%	\$1.48	\$2.005
Mar-10	2,088,030,000	2,142,426,434	97.46%	\$3,090,284.40	\$4,295,565.00	3,367,754	0.16%	97.62%	\$1.48	\$2.005
Apr-10	2,117,657,000	2,160,538,653	98.02%	\$3,134,132.36	\$4,331,880.00	2,162,448	0.10%	98.12%	\$1.48	\$2.005
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%	98.36%	\$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
TOTALS (1)	585,151,359,798	601,724,945,237	97.25%	\$798,719,552.64	\$761,149,064.03	593,502,401	0.10%	97.34%	\$1.36	\$1.265

(1) - SINCE MAY 1, 1992

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

(3) - DOES NOT INCLUDE FIXED COST PAYMENTS

## DU PAGE WATER COMMISSION SALES FY 2011-12 VS. ALLOCATION



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

