



# DuPage Water Commission

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

## AGENDA

**ENGINEERING & CONSTRUCTION COMMITTEE**  
**THURSDAY, APRIL 10, 2008**  
**7:00 P.M.**

## COMMITTEE MEMBERS

G. Wilcox, Chair  
F. Saverino  
W. Maio  
W. Mueller

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

I. Roll Call

II. Approval of Committee Meeting Minutes of September 13, 2007

**RECOMMENDED MOTION: To approve the Minutes of the September 13, 2007 Committee Meeting of the DuPage Water Commission.**

III. Report of Status of Construction/Operations

IV. Partial Pay Request

- Quick Response Contract
- Repair/Replace Power Feed, Meter Socket Enclosure, & Secure Conduits (QRE3-002A) **\$1,994.14**

**RECOMMENDED MOTION: The Engineering Committee recommends to the Commission approval of payments in the amount of \$1,994.14 as part of the accounts payable, subject to submission of all contractually required documentation.**

V. Resolution No. R-19-08: A Resolution Directing Advertisement for Bids on a Contract for the Construction of Winfield Meter Station 27B (Contract MS-17/08)

**RECOMMENDED MOTION: The Engineering Committee recommends to the Commission approval of Resolution No. R-19-08: A Resolution Directing Advertisement for Bids on a Contract for the Construction of Winfield Meter Station 27B (Contract MS-17/08).**

- VI. Resolution R-20-08: A Resolution Awarding a Contract for the Installation of a Dedicated Cooling System in the Computer Equipment Room at the DuPage Pumping Station

**RECOMMENDED MOTION:** The Engineering Committee recommends to the Commission approval of Resolution No. R-20-08: A Resolution Awarding a Contract for the Installation of a Dedicated Cooling System in the Computer Equipment Room at the DuPage Pumping Station.

- VII. Village of Woodridge Request for use of Tank #4 Property

- VIII. Adjournment

**MINUTES OF A MEETING OF THE  
ENGINEERING & CONSTRUCTION COMMITTEE  
OF THE DuPAGE WATER COMMISSION  
HELD ON THURSDAY, SEPTEMBER 13, 2007  
600 EAST BUTTERFIELD ROAD  
ELMHURST, ILLINOIS**

The meeting was called to order at 7:12 P.M.

Committee members in attendance: G. Wilcox, W. Mueller, and S. Louis Rathje *ex officio*.

Committee members absent: F. Saverino and W. Maio

Also in attendance: T. McGhee, E. Kazmierczak, R.C. Bostick, John Schori, F. Frelka, Dave Tucker, and Dan Dragan.

Commissioner Mueller moved to approve the Minutes of the August 9, 2007 Engineering Committee. Motion seconded by Commissioner Wilcox and passed unanimously as follows:

Aye: G. Wilcox and W. Mueller  
Nay: None  
Absent: W. Maio and F. Saverino

The Committee reviewed the memorandum regarding the Status of Operations dated September 7, 2007.

Commissioner Mueller moved to recommend to the Commission approval of payments in the amount of \$44,139.05 as part of the accounts payable, subject to submission of all contractually required documentation. Motion seconded by Commissioner Wilcox and passed unanimously as follows:

**Quick Response Contracts**

1. Exploratory Excavation – DPPS Elmhurst (QR7-011A) \$27,172.26
2. Blow Off Valve Repair – I-88 & Naperville Rd – Unincorporated Naperville \$17,020.79

Aye: G. Wilcox and W. Mueller  
Nay: None  
Absent: W. Maio and F. Saverino

Commissioner Mueller moved to recommend to the Commission approval of Resolution No. R-53-07: A Resolution Approving and Authorizing the Execution of a Standard Form of Agreement between the DuPage Water Commission and Tank Industry Consultants, Inc. for Professional Services in Connection with the Evaluation of Fall Protection Systems at Five Commission Standpipes. Motion seconded by Commissioner Wilcox. Commissioner Wilcox asked why we need a resolution to hire a consultant to resolve a problem with a manufactures recall. Staff informed the Commissioner that we were also investigating alternative safety devices and procedures in addition to replacing the fall protection equipment. Commissioner Mueller asked if we would be recouping any of the cost from the manufacture for replacing the recalled system. Staff informed the Commissioner that the manufacture had covered the shipping costs to return the recalled equipment, but any future compensation was unknown at this time. The motion passed unanimously as follows:

Aye: G. Wilcox and W. Mueller  
Nay: None  
Absent: W. Maio and F. Saverino

Commissioner Mueller moved to recommend to the Commission approval of Resolution No. R-54-07: A Resolution Approving and Ratifying Certain Contract Change Orders at the September 13, 2007, DuPage Water Commission Meeting. Motion seconded by Commissioner Wilcox and passed unanimously as follows:

Aye: G. Wilcox and W. Mueller  
Nay: None  
Absent: W. Maio and F. Saverino

Commissioner Mueller moved to recommend to the Commission approval of Resolution No. R-57-07: A Resolution Awarding a Contract for Supply of Engine Generator Units. Motion seconded by Commissioner Wilcox. Commissioner Wilcox asked why staff was recommending the highest of the three bids. Staff informed the Commissioner that the two lower bidders did not meet key elements of the specifications and the overall cost per kilowatt of the recommended bidder was equal to that of the lower bidders. Commissioner Mueller asked if the City of Chicago was in agreement with staff's recommendation and staff informed him the Commission has received a letter from the city stating that they are in agreement with the recommendation. The motion passed unanimously as follows:

Aye: G. Wilcox and W. Mueller  
Nay: None  
Absent: W. Maio and F. Saverino

Commissioner Mueller moved to adjourn the meeting at 7:25 P.M. Motion seconded by Commissioner Wilcox and unanimously approved by a Voice Vote.


All voted aye. Motion carried.



# DuPage Water Commission

## MEMORANDUM

TO: Robert Martin 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

DATE: April 4, 2008

SUBJECT: Status of Operations

### **Operations Overview**

The Commission's sales for the month of March were a total of 2.296 billion gallons. This represents an average day demand of 74.1 million gallons per day (MGD), which is higher than the March 2007 average day demand of 73.7 MGD. The maximum day demand was 79.2 MGD on March 9, 2008, which is lower than the March 2007 maximum day demand of 80.4 MGD. The minimum day flow was 67.0 MGD. The Commission's recorded total precipitation for the month of March was 1.93 inches compared to 2.21 inches for March 2007. The level of Lake Michigan for March 2008 is 576.7 (Feet IGLD 1985) compared to 577.2 (Feet IGLD 1985) for March of 2007.

### **Facilities Construction Overview**

#### **Contract PSD-6 Reservoir Addition - Division A – Equipment Storage Building and Material Storage:**

Design of the buildings and related structures is ongoing. The perimeter fencing is being removed from the project to be bid separately. The perimeter fencing RFP is being developed.

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

The generator facility design is ongoing, with 100% design pushed back to May 2008. ComEd engineering work is underway and a deposit for the relaying work has been posted.

Generator Supply Contract

Contractor submittals are being reviewed. Delivery is expected between June and August 2009.

Contract PSC-4 Lexington Pump Station Electrical Generation / Photovoltaic Cells / Variable Frequency Drives

The project is out for bids as of Monday, March 17<sup>th</sup>. A mandatory pre-bid meeting is scheduled for Thursday, May 1, 2008 and bid opening is scheduled for Thursday, May 22, 2008. The permitting processes are underway.

Fall Protection for the DuPage Pumping Station

The contract has been executed and the pre-construction meeting was held. Contract completion date is July 22, 2008.

Winfield Additional Connection

Facility designs are approaching the final stage. Authorization to advertise for bids appears on the agenda as R-19-08.

DuPage County Service Areas

No activity to report.

**GIS**GIS Data Layers

No additional data layers are currently planned and future data development will be on an opportunistic basis. Efforts will focus on improved positional accuracy where required; adding data to defined, but not yet populated feature classes and connecting GIS features to the Datastream maintenance database.

Currently there are 44 pipeline feature classes defined in GIS as part of the Transmission feature data set (e.g., pipelines, anodes, valves, etc.). This is in addition to numerous base map data layers such as road centerlines, parcel, municipal boundaries, etc. Most of the base map data layers are provided to the Commission by the Counties of Cook and DuPage.

GIS/Datastream Integration

Progress on this project is anticipated once the version of Datastream is upgraded to be compatible with the current version of ArcGIS. Approximately 12 GIS data layers will be integrated with Datastream initially.

**Pipeline Construction Overview****CONTRACT QR-7:**

No active authorizations at this time.

**CONTRACT VSR-1 (VALVE STEM REPLACEMENT):**

Design is approximately 70% complete.

**SOUTH TRANSMISSION MAIN CORROSION MITIGATION DESIGN:**

EN Engineering is continuing with conceptual design on the South Transmission Main Corrosion Mitigation project.

**APRIL 2008 COMMISSION AGENDA ITEMS:**

**R-19-08**-----A Resolution Directing Advertisement for Bids on a Contract for the Construction of Winfield Meter Station 27B (Contract MS-17/08).

**R-20-08**-----A Resolution Awarding a Contract for the Installation of a Dedicated Cooling System in the Computer Equipment Room at the DuPage Pumping Station. The Contract Price is \$95,074.00.

1. DuPage Laboratory Bench Sheets for March, 2008
2. Water Sales Analysis 01-March-03 to 29-March-08
3. Chart showing Commission sales versus allocations
4. Chart showing Commission sales versus historical averages

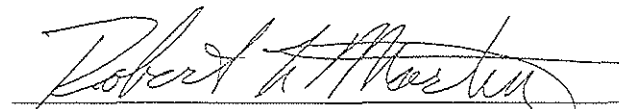
DUPAGE WATER COMMISSION LABORATORY BENCH SHEET  
MONTHLY REPORT FOR MARCH 2008

## 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	0.68	0.10	0.42	0.69	0.08	35	7.6	1.2	0.43	0	JV
2	0.69	0.10	0.42	0.69	0.08	35	7.6	1.2	0.44	0	MR
3	0.67	0.10	0.43	0.67	0.08	35	7.6	1.2	0.45	0	MR
4	0.66	0.09	0.42	0.68	0.07	35	7.6	1.2	0.43	0	MR
5	0.71	0.09	0.42	0.70	0.07	35	7.6	1.1	0.42	0	MR
6	0.70	0.10	0.43	0.67	0.07	35	7.5	1.2	0.44	0	JV
7	0.70	0.09	0.45	0.69	0.07	35	7.6	1.2	0.44	0	JV
8	0.72	0.08	0.43	0.68	0.07	35	7.6	1.1	0.43	0	JV
9	0.66	0.10	0.41	0.69	0.07	35	7.6	1.2	0.41	0	JV
10	0.68	0.10	0.43	0.67	0.08	35	7.6	1.0	0.42	0	MR
11	0.69	0.10	0.45	0.68	0.08	35	7.6	1.2	0.40	0	MR
12	0.66	0.09	0.42	0.67	0.09	35	7.4	1.1	0.41	0	JU
13	0.70	0.09	0.42	0.68	0.09	35	7.6	1.1	0.44	0	MR
14	0.66	0.09	0.43	0.67	0.07	35	7.6	1.1	0.45	0	JV
15	0.68	0.09	0.46	0.67	0.07	36	7.6	1.2	0.43	0	JV
16	0.71	0.09	0.46	0.68	0.07	36	7.6	1.1	0.44	0	JV
17	0.68	0.10	0.45	0.69	0.07	36	7.6	1.1	0.43	0	JV
18	0.70	0.10	0.45	0.67	0.07	36	7.6	1.1	0.48	0	MR
19	0.67	0.11	0.44	0.69	0.07	36	7.5	1.2	0.46	0	MR
20	0.70	0.11	0.42	0.68	0.09	36	7.6	1.1	0.42	0	MR
21	0.71	0.09	0.45	0.71	0.09	37	7.6	1.2	0.42	0	MR
22	0.71	0.09	0.45	0.70	0.08	36	7.6	1.0	0.43	0	JV
23	0.71	0.09	0.42	0.68	0.07	36	7.6	1.1	0.43	0	GA
24	0.72	0.10	0.42	0.70	0.07	38	7.5	1.2	0.41	0	JV
25	0.68	0.10	0.44	0.72	0.07	38	7.6	1.1	0.43	0	JV
26	0.71	0.10	0.43	0.68	0.07	38	7.6	1.1	0.41	0	MR
27	0.66	0.08	0.43	0.67	0.08	38	7.6	1.0	0.41	0	MR
28	0.67	0.11	0.43	0.68	0.08	38	7.6	1.0	0.46	0	MR
29	0.66	0.09	0.42	0.66	0.08	39	7.6	1.0	0.44	0	MR
30	0.69	0.09	0.45	0.69	0.08	39	7.6	1.1	0.42	0	KD
31	0.68	0.09	0.45	0.68	0.07	39	7.6	1.2	0.42	0	KD
AVG	0.69	0.10	0.43	0.68	0.08	36	7.6	1.1	0.43	0	
MAX	0.72	0.11	0.46	0.72	0.09	39	7.6	1.2	0.48	0	
MIN	0.66	0.08	0.41	0.66	0.07	35	7.4	1.0	0.40	0	

  
Terrance McGhee  
Manager of Water Operations

  
Robert L. Martin  
General Manager



DU PAGE WATER COMMISSION  
WATER SALES ANALYSIS

01-May-92 TO 31-Mar-08

PER DAY AVERAGE 81,897,004

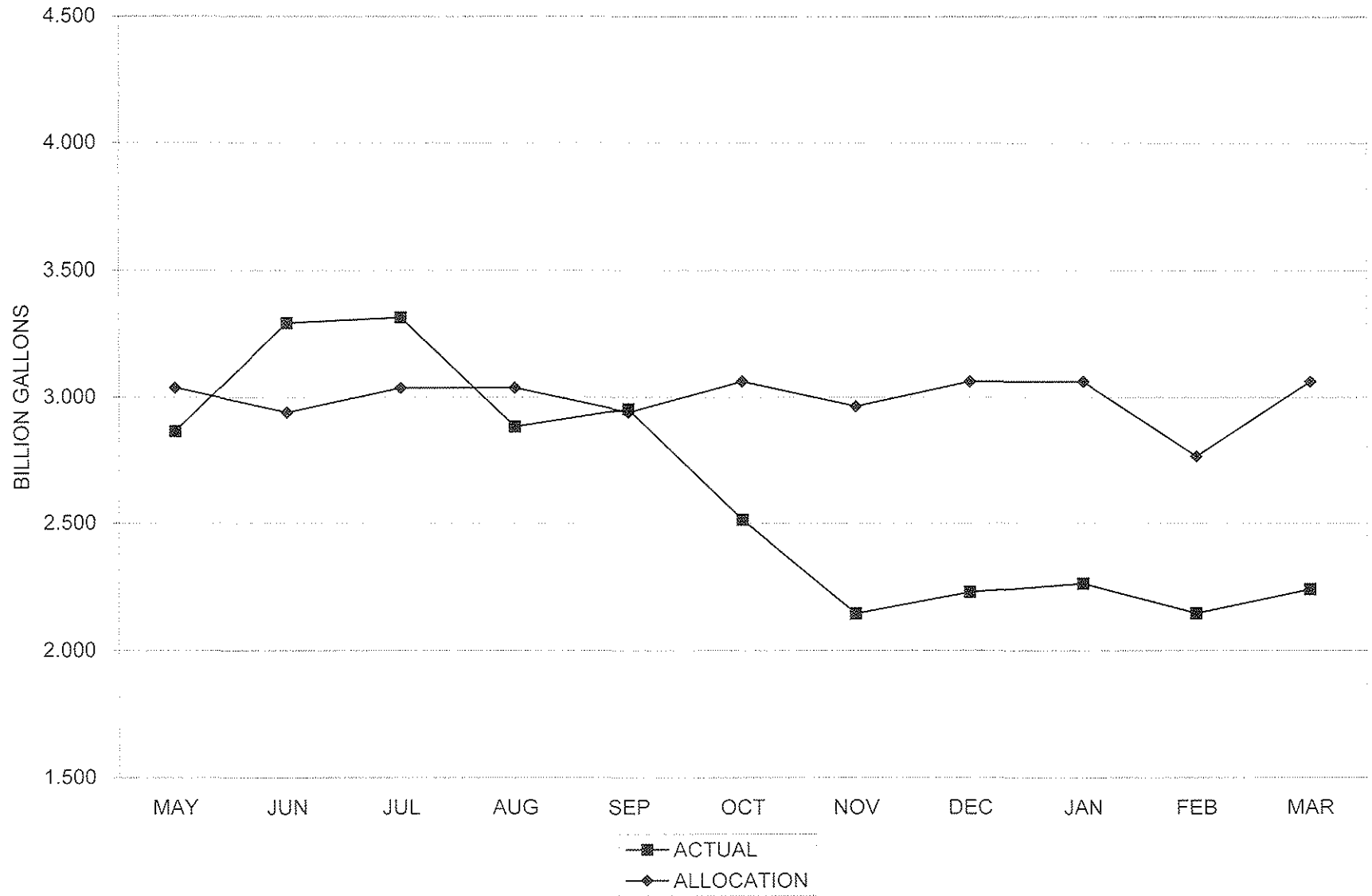
MONTH	SALES TO CUSTOMERS (GALLONS)	PURCHASES FROM CHICAGO (GALLONS)	GALLONS BILLED %	BILLINGS TO CUSTOMERS	BILLINGS FROM CHICAGO	DOCUMENTED COMMISSION WATER USE (2)	DOCUMENTED COMMISSION WATER USE %	TOTAL ACCOUNTED FOR %
May-05	2,751,156,000	2,826,791,957	97.32%	\$3,383,921.88	\$3,669,175.96	7,991,723	0.28%	97.61%
Jun-05	3,775,195,000	3,884,927,612	97.18%	\$4,645,553.10	\$5,042,636.04	6,563,800	0.17%	97.34%
Jul-05	4,078,909,000	4,145,332,157	98.40%	\$5,017,058.07	\$5,380,641.14	6,773,400	0.16%	98.56%
Aug-05	3,498,090,000	3,609,900,000	96.90%	\$4,302,650.70	\$4,685,677.02	8,573,152	0.24%	97.14%
Sep-05	3,202,484,000	3,289,206,394	97.36%	\$3,939,055.32	\$4,269,389.90	6,689,590	0.20%	97.57%
Oct-05	2,545,686,000	2,647,388,860	96.16%	\$3,131,193.78	\$3,436,310.74	6,998,672	0.26%	96.42%
Nov-05	2,238,636,000	2,261,375,216	98.99%	\$2,753,522.28	\$2,935,265.03	5,496,962	0.24%	99.24%
Dec-05	2,362,455,000	2,422,577,673	97.52%	\$2,905,819.65	\$3,144,505.82	5,810,930	0.24%	97.76%
Jan-06	2,241,162,000	2,303,320,263	97.30%	\$2,756,629.26	\$3,063,415.95	4,323,441	0.19%	97.49%
Feb-06	2,033,220,000	2,083,799,323	97.57%	\$2,500,915.68	\$2,771,453.10	3,709,927	0.18%	97.75%
Mar-06	2,189,124,000	2,245,513,008	97.49%	\$2,693,251.86	\$2,986,532.30	5,523,343	0.25%	97.73%
Apr-06	2,288,760,000	2,342,619,023	97.70%	\$2,815,174.80	\$3,115,683.30	3,928,470	0.17%	97.87%
May-06	2,610,813,000	2,692,357,782	96.97%	\$3,237,408.12	\$3,580,835.85	5,227,307	0.19%	97.17%
Jun-06	2,992,447,000	3,070,487,707	97.46%	\$3,710,960.98	\$4,083,748.65	4,407,260	0.14%	97.60%
Jul-06	3,271,454,000	3,360,915,489	97.34%	\$4,056,602.96	\$4,470,017.60	4,330,000	0.13%	97.47%
Aug-06	3,182,143,000	3,278,914,023	97.05%	\$3,945,857.32	\$4,360,955.65	4,157,170	0.13%	97.18%
Sep-06	2,472,175,000	2,539,240,000	97.36%	\$3,065,988.70	\$3,377,189.20	4,242,692	0.17%	97.53%
Oct-06	2,290,903,000	2,358,823,308	97.12%	\$2,840,719.72	\$3,137,235.00	4,540,716	0.19%	97.31%
Nov-06	2,180,207,000	2,227,311,241	97.89%	\$2,703,456.68	\$2,962,323.95	28,850,568	1.30%	99.18%
Dec-06	2,226,395,000	2,288,619,699	97.28%	\$2,760,729.80	\$3,043,864.20	3,979,814	0.17%	97.46%
Jan-07	2,220,804,000	2,280,218,308	97.39%	\$2,753,796.96	\$3,032,690.35	3,980,439	0.17%	97.57%
Feb-07	2,140,510,000	2,201,007,331	97.25%	\$2,654,454.82	\$2,927,339.75	3,710,444	0.17%	97.42%
Mar-07	2,210,108,000	2,255,212,245	98.18%	\$2,741,312.06	\$3,510,226.72	3,891,151	0.17%	98.35%
Apr-07	2,181,740,000	2,251,116,429	96.92%	\$2,705,357.60	\$2,993,984.85	4,352,433	0.19%	97.11%
May-07	2,863,644,000	2,951,900,000	97.01%	\$2,978,988.48	\$3,926,001.00	4,012,875	0.14%	97.15%
Jun-07	3,292,831,000	3,396,024,774	96.96%	\$3,424,545.52	\$4,516,712.95	4,468,064	0.13%	97.09%
Jul-07	3,314,840,000	3,412,423,571	97.14%	\$3,447,433.60	\$4,538,523.35	4,456,650	0.13%	97.27%
Aug-07	2,883,008,000	2,966,379,286	97.19%	\$2,998,328.32	\$3,945,284.45	4,172,900	0.14%	97.33%
Sep-07	2,951,692,000	3,051,590,188	96.73%	\$3,070,294.72	\$4,058,614.95	3,977,217	0.13%	96.86%
Oct-07	2,512,609,400	2,578,045,000	97.46%	\$2,614,883.38	\$3,428,799.85	9,585,389	0.37%	97.83%
Nov-07	2,143,753,000	2,205,810,263	97.19%	\$2,230,952.72	\$2,933,727.65	10,390,297	0.47%	97.66%
Dec-07	2,228,281,000	2,292,016,165	97.22%	\$2,317,412.24	\$3,048,381.50	2,174,944	0.09%	97.31%
Jan-08	2,262,968,000	2,324,208,591	97.37%	\$2,353,486.72	\$3,554,877.04	2,134,597	0.09%	97.46%
Feb-08	2,145,137,000	2,197,527,140	97.62%	\$2,232,195.60	\$3,361,117.76	2,074,217	0.09%	97.71%
Mar-08	2,239,073,000	2,295,015,835	97.56%	\$2,328,635.92	\$3,510,226.72	2,041,001	0.09%	97.65%
TOTALS (1)	476,149,182,400	490,140,682,394	97.15%	\$624,531,839.43	\$555,228,049.89	488,972,962	0.10%	97.25%
=====								

(1) - SINCE MAY 1, 1992

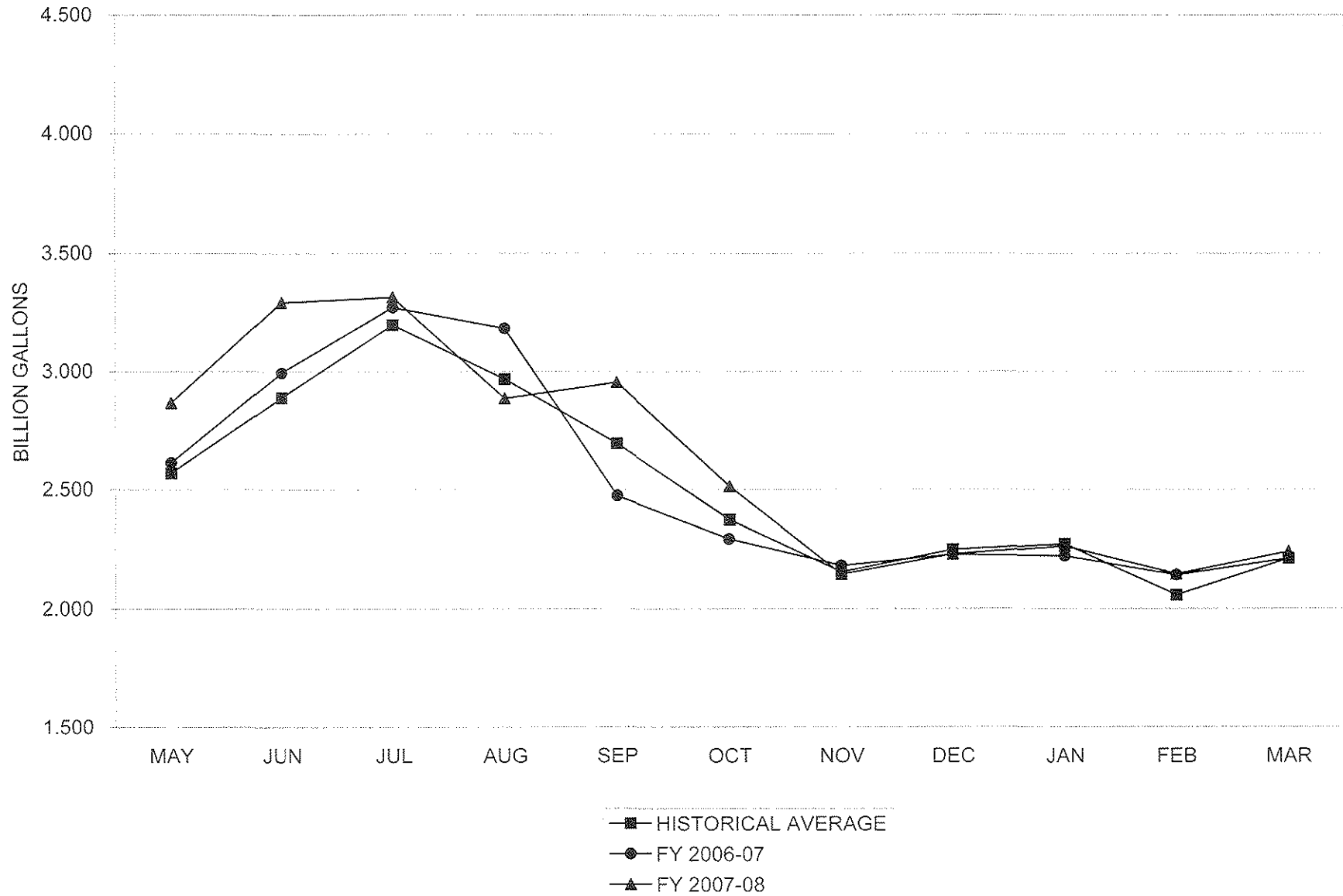
(2) - REPRESENTS DU PAGE PUMP STATION, METER TESTING AND CONSTRUCTION PROJECT USAGE

Operations\Spreadsheets\H2OSALES.xls

# DU PAGE WATER COMMISSION SALES FY 2007-08 VS. ALLOCATION



# **DU PAGE WATER COMMISSION SALES FY 2007-08 & FY 2006-07 VS. HISTORICAL AVERAGE**



DU PAGE WATER COMMISSION

REPAIR/REPLACE POWER FEED, METER SOCKET ENCLOSURE, & SECURE CONDUITS(QRE3-002A)

ACCT. # 60-6633

RIDGEWOOD ENGINEERING, INC.

1411 S. ROSELLE ROAD

SCHAUMBURG, IL 60193

	FRI 10/12/07	HOURS UNITS	RATE	EXTENTION	FEE	AMOUNT
LABOR						
ELEC. - (J. ZIEMBA)	8.00	8.00	61.34	490.72		
ELEC. - (F. BARTOLI)	10.00	10.00	59.37	593.70		
				<u>1,084.42</u>	34.00%	1,453.12
SUPPLIES						
RIDGEWOOD ENGINEERING SUPPLIES	249.36			249.36		
				<u>249.36</u>	15.00%	286.76
EQUIPMENT						
FORD E-350 VAN	8.00	8.00	18.35	146.80		
FORD F-350 TRUCK	2.00	2.00	18.35	36.70		
HYDRAULIC BENDER	8.00	8.00	5.44	43.52		
				<u>227.02</u>	12.00%	254.26
						<u>1,994.14</u>

CONFIRMED

BY: ju8 DATE: 4/2/08

ACCT # ; 60-6633 AMT: 1,994.14

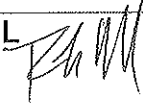
ACCT # ;          AMT:         

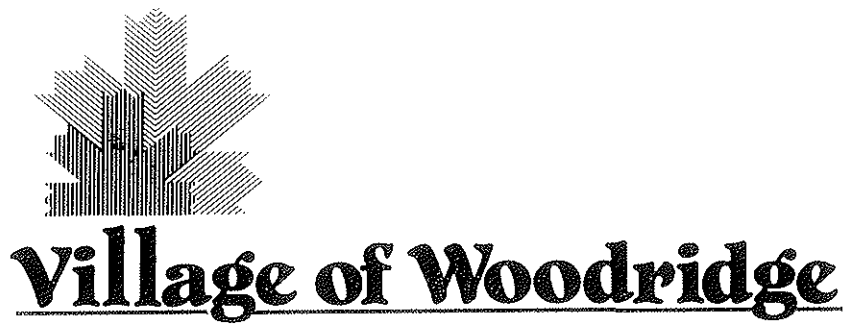
APPROVED [Signature]

[Signature]

DATE: March 31, 2008

## REQUEST FOR BOARD ACTION

<b>AGENDA SECTION</b>	Engineering Committee	<b>ORIGINATING DEPARTMENT</b>	General Manager's Office
<b>ITEM</b>	Request by Woodridge to use Tank Site #4	<b>APPROVAL</b>	
<p>Account Number: N/A</p> <p>Attached is a letter from the Village of Woodridge requesting the use of a portion of Tank Site #4 property on 75<sup>th</sup> Street in unincorporated Lisle Township. The Commission owns 32.5 acres at that location.</p>			
<p><b>MOTION:</b> To approve the request and direct staff to negotiate an Intergovernmental Agreement with the Village of Woodridge.</p>			



Department of Public Works • One Plaza Drive • Woodridge, IL 60517-5015  
(630) 719-4753 • TTY (630) 719-2498 • FAX (630) 719-0971

March 11, 2008

DuPage Water Commission  
ATTN: Robert Martin  
600 East Butterfield Road  
Elmhurst, IL 60126-4642


Dear Mr. Martin:

Thank you for taking the time last week to let me overview some of the Village's existing storage needs. As I had noted in the conversation, the Village of Woodridge is interested in an opportunity to utilize a portion of the property currently owned by the DuPage Water Commission (DWC) on 75<sup>th</sup> Street, adjacent to Woodridge.

In reviewing aerial photographs and wetland data for the property, it appears there is an area that would be suitable for the Village's storage needs, which would not impact any of the DWC's existing operations at the adjacent water tower facilities.

The Village respectfully requests the opportunity to discuss the potential use of a portion of this property in further detail. Please contact me at your convenience to discuss this issue. Thank in advance for your consideration and I look forward to speaking with you soon.

Respectfully,

  
Christopher Bethel  
Director of Public Works

cc. John Perry, Village Administrator  
Jeffrey Moline, Assistant Director of Public Works  
Bob Myers, Civil Engineer  
Tony Fowler, Superintendent of Operations  
Ron Roehn, Foreman  
Ben Santore, Foreman  
Mike Mytys, Foreman  
Scott Sramek, Foreman