



DuPage Water Commission

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

NOTICE IS HEREBY GIVEN THAT A SPECIAL COMMITTEE OF THE WHOLE MEETING OF THE DUPAGE WATER COMMISSION WILL BE HELD AT 6:30 P.M. ON THURSDAY, DECEMBER 13, 2007, AT ITS OFFICES LISTED BELOW. THE AGENDA FOR THE SPECIAL COMMITTEE OF THE WHOLE MEETING IS AS FOLLOWS:

AGENDA

**DUPAGE WATER COMMISSION
COMMITTEE OF THE WHOLE
THURSDAY, DECEMBER 13, 2007
6:30 P.M.**

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

- I. Roll Call
- II. Security Procedures

RECOMMENDED MOTION: To go into Executive Session to discuss security procedures pursuant to 5 ILCS 120/2(c)(8) (Roll Call).

RECOMMENDED MOTION: To come out of Executive Session (Voice Vote).

- III. Discussion of Draft Capital Improvement Plan (time permitting)
- IV. Other
- V. Adjournment

Board/Agenda/Commission/COW0712.doc

**MINUTES OF A SPECIAL COMMITTEE OF THE WHOLE
MEETING OF THE DUPAGE WATER COMMISSION
HELD ON THURSDAY, NOVEMBER 8, 2007
600 E. BUTTERFIELD ROAD
ELMHURST, ILLINOIS**

The meeting was called to order by Vice Chairman Mueller at 6:30 P.M.

Commissioners in attendance: E. Chaplin, T. Feltes (as of 6:41 P.M.), L. Hartwig, G. Mathews, W. Mueller, W. Murphy, A. Poole (as of 6:37 P.M.), F. Saverino, J. Vrdolyak, G. Wilcox (as of 6:39 P.M.), and D. Zeilenga

Commissioners Absent: W. Maio and L. Rathje

Also in attendance: Treasurer R. Thorn, R. Martin, M. Richter, M. Crowley, C. Johnson, T. McGhee, R. C. Bostick, J. Schori, E. Kazmierczak, and Dave Tucker of Camp Dresser and McKee Inc.

Commissioner Hartwig moved to go into Executive Session to discuss security procedures pursuant to 5 ILCS 120/2(c)(8). Seconded by Commissioner Saverino and unanimously approved by a Roll Call Vote:

Ayes: E. Chaplin, L. Hartwig, G. Mathews, W. Mueller, W. Murphy, F. Saverino, J. Vrdolyak, and D. Zeilenga

Nays: None

Absent: T. Feltes, W. Maio, A. Poole, G. Wilcox, and L. Rathje

The Board went into Executive Session at 6:36 P.M. Commissioner Poole arrived at 6:37 P.M., Commissioner Wilcox arrived at 6:39 P.M., and Commissioner Feltes arrived at 6:41 P.M.

Commissioner Wilcox moved to come out of Executive Session at 7:25 P.M. Seconded by Commissioner Chaplin and unanimously approved by a Voice Vote.

All voted aye. Motion carried.

Commissioner Hartwig moved to adjourn the meeting at 7:26 P.M. Seconded by Commissioner Vrdolyak and unanimously approved by a Voice Vote.

All voted aye. Motion carried.



**DUPAGE WATER COMMISSION
2008 - 2009
FIVE YEAR CAPITAL IMPROVEMENT
PLAN
December 13, 2007**





DuPage Water Commission

MEMORANDUM

TO: Chairman Rathje and Commissioners

FROM: Robert L. Martin, P.E.
General Manager

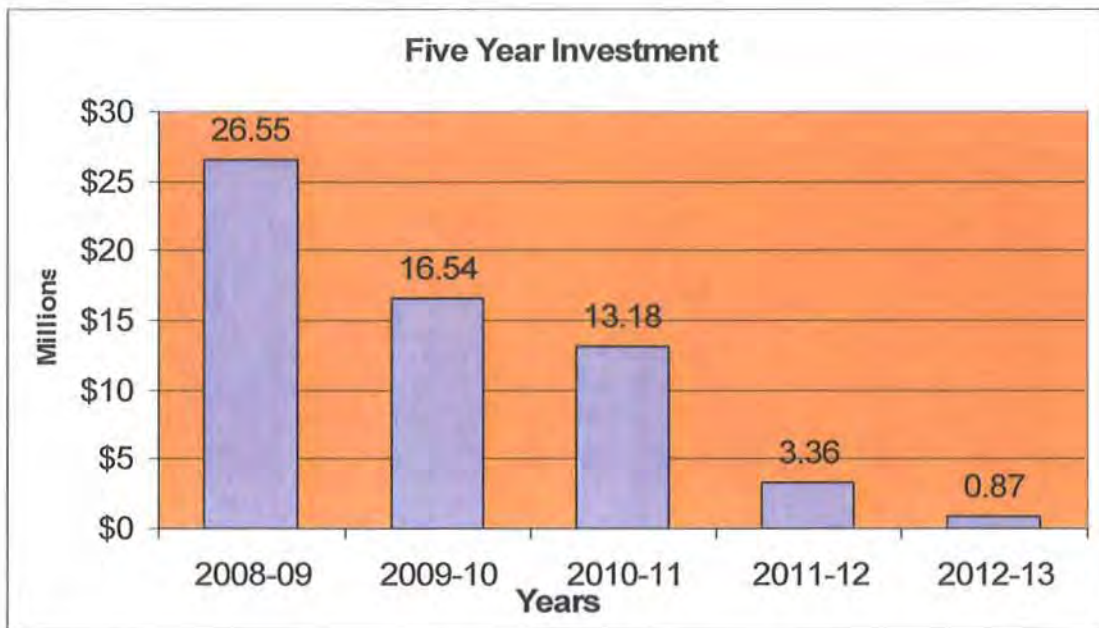
DATE: December 13, 2007

SUBJECT: Capital Improvement Plan

In accordance with Commission policy, the Capital Improvement Plan is reviewed and evaluated by staff in connection with each new budget cycle. A draft of the updated plan is then submitted to the Commission for its consideration. This annual document is based on the Commission's anticipated needs for normal operations, emergency operations and improvements to the system. While the main focus is the next five fiscal years, included in the plan are additional eight year projections of revenues, expenditures and fund balances. The proposed capital plan is included in the projection summary.

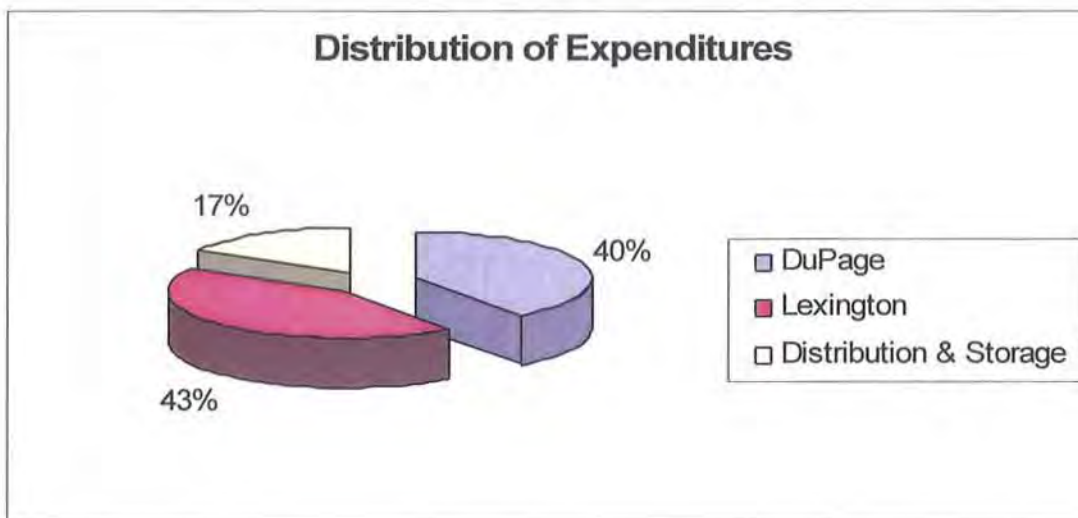
The plan is divided into several sections – DuPage Pump Station Improvements, Lexington Pump Station Improvements, and Distribution & Storage System Improvements. A summary shows the capital outlay, which are funded by sales tax revenues, on a fiscal year basis. Each fiscal year's proposed expenditures are included in the financial projection of Commission revenues and expenditures through fiscal year 2020-2021.

The Commission proposes to spend approximately \$60.5 million on 11 projects during the planning period from FY 2008-2009 through FY 2012-2013. The following chart shows the projected annual expenditures over the next five years.



Significant changes in capital expenditures from the previous plan include:

- Completion of Cadwell Ave. re-alignment
- Completion of Hydro Mixing System (Tank 4 East)
- Addition of corrosion mitigation for steel water mains
- Complete repainting of five standpipes
- Site improvements



The cost of the Electrical Generation Facility, the Variable Frequency Drive Replacement and the Solar Photovoltaic System at the Lexington Pumping Station will be split between the Chicago Department of Water Management and the Commission. The Chicago Department of Water Management will pay 50% of the Electrical Generation Facility up to a maximum of \$8.5 million. The Commission will pay 50% of the Solar Photovoltaic System up to \$4 million. Because the replacement of the Variable Frequency Drives is considered maintenance, the Commission and the Chicago Department of Water Management will equally share the replacement cost.

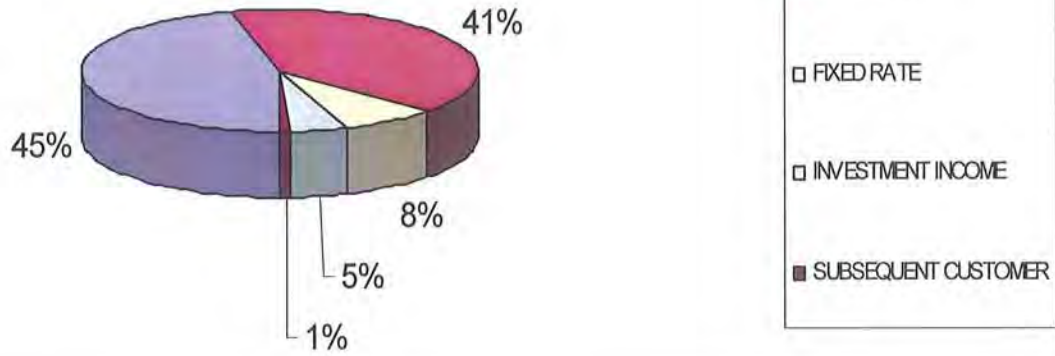
The draft fiscal 2008-09 planning document represents the thirteenth consecutive year in which the Commission has evaluated a Capital Improvement Plan. Utilizing this process over the years has allowed the Commission to have a much better understanding of its long-term capital and operating needs and the level of funding required from various sources.

Current Commission policy reflected in this plan uses sales tax to pay 50% of the Water Revenue Bonds Principal & Interest. Public Act 93-0226, which was enacted on July 22, 2003, requires the Commission to maintain a customer rate of not more than \$1.65 per 1,000 gallons for a period of five years.

This plan proposes incorporating the City of Chicago's water rate increases into the Commission's rate. This will cause the average combined water rate to increase to \$1.45 per thousand gallons for the fiscal year 2008-2009, \$1.68 per thousand gallons for the fiscal year 2009-2010, and \$1.93 per thousand gallons for the fiscal year 2010-2011 and thereafter. This rate increase will result in a construction reserve for the anticipated construction of the 30 million gallon reservoir for fiscal year 2015-2016 and to maintain the \$20.0 million emergency reserve. Sales tax revenue will be utilized in fiscal year 2008-2009 to supplement operation and maintenance revenues.

Planned improvements accepted by the Board will be included in the 2008-2009 budget documents. The budget will be sent to the Board for its review in February and released, in tentative draft form, to the Charter Customers prior to March 1, 2008.

Revenue Sources



EXPENDITURES

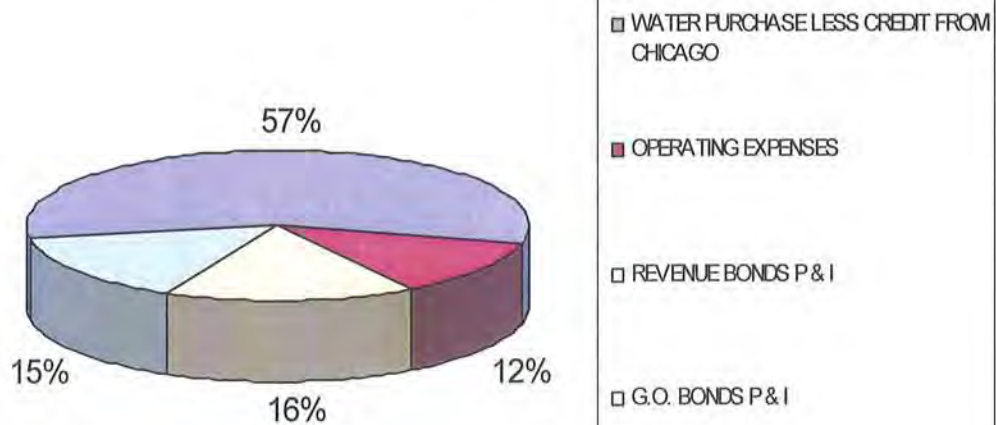


Table of Contents

SUMMARY.....	1
Five Year Projection Assumptions.....	2
Summary of Revenues, Expenditures & Fund Balances.....	3
Summary of Estimated New Construction Costs.....	5
DUPAGE PUMP STATION IMPROVEMENTS.....	7
10 MW Electrical Generation Facility.....	8
Site Improvements.....	9
Garage/Office Building Facility.....	10
Pump #10.....	12
Material and Equipment Storage Facility.....	14
LEXINGTON PUMP STATION IMPROVEMENTS.....	17
Electrical Generation Facility.....	18
Variable Frequency Drive Replacement.....	20
Solar Photovoltaic System.....	22
DISTRIBUTION & STORAGE SYSTEM IMPROVEMENTS.....	25
Standpipe Riser Pipe Modifications.....	26
Commission Standpipes Repainting.....	28
Corrosion Mitigation of Steel Water Mains.....	30

**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

Summary

DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN

Five Year Projections Assumptions

- Operation and maintenance revenues are based on 94.0% of the current IDNR allocation for each fiscal year.
- Fixed cost revenue requirements are 50% of the yearly debt service scheduled for the Commission's outstanding revenue bonds. Sales taxes are used to pay the remaining 50%.
- Water purchase expense is based on the Commission billing 97.1% of all water purchased from Chicago and the following increases in the Chicago water rate:
 - 15% beginning January 1, 2008 \$ 0.20 per 1,000 gallons
 - 15% beginning January 1, 2009 \$ 0.23 per 1,000 gallons
 - 14% beginning January 1, 2010 \$ 0.25 per 1,000 gallons
- The average water rate is increased to \$1.45 per thousand gallons for fiscal year 2008-2009, \$1.68 for fiscal year 2009-2010, and \$1.93 for fiscal year 2010-2011 and thereafter due to scheduled increases in water cost from the City of Chicago.
- Sales tax receipts will be used in fiscal year 2008-2009 to supplement operation and maintenance revenues.
- Sales tax receipts pay for general obligation bond debt service requirements allowing the abatement of \$13.1 million of property tax annually.
- Sales tax revenue increases 2% annually excluding West Chicago.
- Interest income is based on prior year's earnings versus prior year's net revenues excluding interest earned applied to the same figure for each projected fiscal year.
- The 10% water purchase credit will be used to fund Chicago's share of the improvements at the Lexington Pumping Station.
- All other operating expenses not specifically mentioned above are anticipated to rise 5% per year.
- Principal and interest costs are the scheduled debt service payments for the Commission's 2003 Revenue Bonds and General Obligation Bonds of 2001.
- Construction and major capital repair costs are inflated 2% per year.
- The Commission set a \$20 million goal, which is equivalent to three months operating budget, for a Held for Emergency Reserve. This has been defined as personal expenses, professional services, insurance, administrative, and direct water distribution.
- Sales tax proceeds not needed for immediate appropriation are reserved for construction.

DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN

DUPAGE WATER COMMISSION
SUMMARY OF REVENUES, EXPENDITURES & FUND BALANCES
50% REVENUE BOND SUBSIDY
WITH THE CITY OF CHICAGO'S RATE INCREASES

	ACTUAL FY 06-07	PROJECTED FY 07-08	ASSUMPTIONS OR % CHANGE	FORECAST FY 08-09	FORECAST FY 09-10	FORECAST FY 10-11	FORECAST FY 11-12	FORECAST FY 12-13
REVENUES:								
FIXED RATE	7,145,093	7,145,094	50.0%	7,144,719	7,145,219	7,146,219	7,144,594	7,144,844
O & M REVENUE	37,173,709	41,023,413	CALCULATED	42,189,486	50,509,622	59,361,838	59,893,996	60,768,882
SALES TAX	36,535,470	36,382,668	2.0%	36,268,083	36,993,445	37,733,314	38,487,980	39,257,740
INVESTMENT INCOME	7,350,036	4,720,651	CALCULATED	4,446,791	4,211,295	4,181,984	3,821,108	4,118,876
SUBSEQUENT CUSTOMER	706,825	707,195	1.0%	728,797	736,085	743,446	750,880	758,389
EMERGENCY SUPPLY	11,360	10,051	2.0%	10,457	10,666	10,879	11,097	11,319
OTHER INCOME	63,689	66,156		2,500	2,500	2,500	2,500	2,500
TOTAL REVENUES	88,986,182	90,055,228		90,790,833	99,608,832	109,180,180	110,112,155	112,062,550
EXPENDITURES:								
WATER PURCHASE	42,495,556	48,554,311	SEE NOTE 1	56,310,982	65,078,160	72,161,406	74,887,020	77,717,547
CREDIT FROM CHICAGO	(868,166)	(285,357)		(6,533,000)	(4,213,500)	(1,869,500)	-	-
OPERATING EXPENSES	11,574,626	10,170,558	5.0%	10,679,086	11,213,040	11,773,692	12,362,377	12,980,496
REV BOND P&I	13,894,709	14,290,188	CALCULATED	14,289,438	14,290,438	14,292,438	14,289,188	14,289,688
GO BOND P & I	12,765,797	13,117,900	CALCULATED	13,116,900	13,121,275	13,119,413	-	-
TOTAL EXPENDITURES	79,862,522	85,847,600		87,863,406	99,489,413	109,477,448	101,538,585	104,987,731
DUPAGE COUNTY PAYMENT	5,356,901	1,902,000	CALCULATED	26,554,000	16,538,000	13,177,000	3,356,000	869,000
WEST CHICAGO PAYMENT	15,000,000	15,000,000	PA 93-0226	-	-	-	-	-
REBATE	-	1,700,000		-	-	-	-	-
RECLASSIFICATION OF RESTRICTED TO UNRESTRICTED	-	40,000,000		-	-	-	-	-
QUALITY LOAN REPAYMENT	-	-	CALCULATED	-	-	736,615	736,615	736,615
NET TRANSACTIONS	(11,233,241)	(54,394,372)	BOARD POLICY	(23,626,573)	(16,418,581)	(12,737,654)	5,954,185	6,942,434
BEGINNING BALANCE	134,832,327	123,599,086		69,204,714	45,578,141	29,159,560	16,421,906	22,376,091
ENDING BALANCE	123,599,086	69,204,714		45,578,141	29,159,560	16,421,906	22,376,091	29,318,525
UNRESTRICTED								
HELD FOR EMERGENCY REPAIRS	12,900,000	20,000,000		20,000,000	20,000,000	20,000,000	20,000,000	20,000,000
O&M RATE STABILIZATION	13,712,912	3,972,637		-	-	-	-	-
CONSTRUCTION RESERVE	78,195,874	42,079,346		22,425,410	6,006,829	(6,730,825)	(776,640)	6,165,794
RECLASSIFICATION OF RESTRICTED TO UNRESTRICTED	-	-		-	-	-	-	-
UNDISTRIBUTED PA93-0226	15,000,000	-		-	-	-	-	-
UNDISTRIBUTED QUALITY LOANS	3,790,300	3,152,731		3,152,731	3,152,731	3,152,731	3,152,731	3,152,731
TOTAL UNRESTRICTED CASH & EQUIVALENTS	123,599,086	69,204,714		45,578,141	29,159,560	16,421,906	22,376,091	29,318,525
RESTRICTED								
DEPRECIATION	5,000,000	5,000,000		5,000,000	5,000,000	5,000,000	5,000,000	5,000,000
O & M	9,542,462	11,330,763		14,609,471	17,012,854	17,684,631	18,383,639	19,110,608
O & M RESERVE	12,169,760	12,501,341		15,162,638	17,657,022	18,354,235	19,079,710	19,834,204
TOTAL RESTRICTED CASH & EQUIVALENTS	26,712,222	28,832,104		34,772,110	39,669,876	41,038,866	42,463,350	43,944,811
TOTAL CASH & EQUIVALENTS	150,311,308	98,036,818		80,350,251	68,829,436	57,460,773	64,839,441	73,263,337
RATE INFORMATION								
O & M RATE	1.23	1.04		1.24	1.47	1.72	1.72	1.73
FIXED COST RATE	0.21	0.21		0.21	0.21	0.21	0.21	0.20
TOTAL RATE	1.44	1.25		1.45	1.68	1.93	1.93	1.93

NOTE 1. 15% INCREASE 1/1/08; 15% INCREASE 1/1/09; 14% INCREASE 1/1/10

DRAFT NOVEMBER 30, 2007

DUPAGE WATER COMMISSION
SUMMARY OF REVENUES , EXPENDITURES & FUND BALANCES
50% REVENUE BOND SUBSIDY
WITH THE CITY OF CHICAGO'S RATE INCREASES

	FORECAST FY 13-14	FORECAST FY 14-15	FORECAST FY 15-16	FORECAST FY 16-17	FORECAST FY 17-18	FORECAST FY 18-19	FORECAST FY 19-20	FORECAST FY 20-21
REVENUES:								
FIXED RATE	7,144,163	7,144,969	7,143,844	-	-	-	-	-
O & M REVENUE	61,079,021	61,527,705	62,129,899	69,762,599	70,309,317	71,031,224	71,412,722	71,300,274
SALES TAX	40,042,895	40,843,753	41,660,628	42,493,841	43,343,718	44,210,592	45,094,804	45,996,700
INVESTMENT INCOME	4,380,301	4,602,347	4,781,816	4,916,823	5,152,140	6,602,183	6,412,669	6,412,669
SUBSEQUENT CUSTOMER	765,973	773,633	761,369	789,183	797,075	805,046	813,096	821,227
EMERGENCY SUPPLY	11,545	11,776	12,012	12,252	12,497	12,747	13,002	13,262
OTHER INCOME	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500
TOTAL REVENUES	113,426,398	114,906,683	116,511,868	117,977,198	120,617,247	122,664,292	123,748,793	124,546,632
EXPENDITURES:								
WATER PURCHASE	80,655,112	83,700,824	86,869,950	90,162,322	93,566,727	97,088,338	100,741,762	103,776,892
CREDIT FROM CHICAGO	-	-	-	-	-	-	-	-
OPERATING EXPENSES	13,629,521	14,310,997	15,026,547	15,777,874	16,566,768	17,395,106	18,264,861	19,178,104
REV BOND P & I	14,288,325	14,289,938	14,287,688	-	-	-	-	-
GO BOND P & I	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	108,572,958	112,301,759	116,184,185	105,940,196	110,133,495	114,483,444	119,006,623	122,954,996
DUPAGE COUNTY PAYMENT	5,000,000	5,000,000	8,110,000	15,550,000	8,050,000	5,000,000	5,000,000	5,000,000
WEST CHICAGO PAYMENT	-	-	-	-	-	-	-	-
REBATE	-	-	-	-	-	-	-	-
RECLASSIFICATION OF RESTRICTED TO UNRESTRICTED	-	-	-	-	-	-	-	-
QUALITY LOAN REPAYMENT	785,659	785,659	785,659	785,659	785,659	785,659	785,659	785,659
NET TRANSACTIONS	639,099	(1,609,417)	(6,996,658)	(2,727,338)	3,219,411	3,966,507	527,830	(2,622,705)
BEGINNING BALANCE	29,318,525	29,957,624	28,348,207	21,351,549	18,624,211	21,843,622	25,810,129	26,337,958
ENDING BALANCE	29,957,624	28,348,207	21,351,549	18,624,211	21,843,622	25,810,129	26,337,958	23,715,254
UNRESTRICTED								
HELD FOR EMERGENCY REPAIRS	20,000,000	20,000,000	20,000,000	20,000,000	20,000,000	20,000,000	20,000,000	20,000,000
O&M RATE STABILIZATION	-	-	-	-	-	-	-	-
CONSTRUCTION RESERVE	6,804,893	5,195,476	(1,801,182)	(53,287,729)	(50,068,318)	(46,101,811)	(45,573,981)	(48,196,686)
RECLASSIFICATION OF RESTRICTED TO UNRESTRICTED	-	-	-	48,759,209	48,759,209	48,759,209	48,759,209	48,759,209
UNDISTRIBUTED PA93-0226	-	-	-	-	-	-	-	-
UNDISTRIBUTED QUALITY LOANS	3,152,731	3,152,731	3,152,731	3,152,731	3,152,731	3,152,731	3,152,731	3,152,731
TOTAL UNRESTRICTED CASH & EQUIVALENTS	29,957,624	28,348,207	21,351,549	18,624,211	21,843,622	25,810,129	26,337,958	23,715,254
RESTRICTED								
DEPRECIATION	5,000,000	5,000,000	5,000,000	-	-	-	-	-
O & M	19,866,073	20,653,461	21,473,080	-	-	-	-	-
O & M RESERVE	20,618,274	21,435,475	22,286,128	-	-	-	-	-
TOTAL RESTRICTED CASH & EQUIVALENTS	45,484,348	47,088,935	48,759,209	-	-	-	-	-
TOTAL CASH & EQUIVALENTS	75,441,972	75,437,142	70,110,758	18,624,211	21,843,622	25,810,129	26,337,958	23,715,254
RATE								
O & M RATE	1.73	1.73	1.73	1.93	1.93	1.93	1.93	1.93
FIXED COST RATE	0.20	0.20	0.20	-	-	-	-	-
TOTAL RATE	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93

NOTE 1. 15% INCREASE 1/1/08; 15% INCREASE 1/1/09; 14% INCREASE 1/1/10

DRAFT NOVEMBER 30, 2007

DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN

**DuPAGE WATER COMMISSION
SUMMARY OF ESTIMATED NEW CONSTRUCTION COSTS**

**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

DESCRIPTION (BASED ON FY 07-08 COSTS)	FY 08-09	FY 09-10	FY 10-11	FY 11-12	FY 12-13	TOTAL
DuPAGE PUMP STATION IMPROVEMENTS						
10 MW Electrical Generator Facility - Engineering	425,000	425,000	255,000			1,105,000
10 MW Electrical Generator Facility - Construction	6,304,000	3,400,000	4,523,000			14,227,000
10 MW Electrical Generation Facility - ComEd Fees	1,500,000	500,000				2,000,000
Site Improvements - Engineering	200,000					200,000
Site Improvements - Construction	2,000,000					2,000,000
Garage/Office Building - Engineering	75,000	25,000	45,000			145,000
Garage/Office Building - Construction	1,009,000	600,000	798,000			2,407,000
Pump #10-Engineering					53,000	53,000
Pump #10-Installation					526,000	526,000
Material & Equipment Storage Facilities - Engineering	75,000					75,000
Material & Equipment Storage Facilities - Construction	600,000					600,000
LEXINGTON PUMP STATION IMPROVEMENTS 1						
Generator Facility - Engineering	630,000	416,000	189,000			1,235,000
Generator Facility - Construction	7,315,000	4,828,000	2,194,000			14,337,000
Generation Facility - ComEd Fees	600,000	200,000				800,000
Variable Frequency Drive Replacement - Engineering	48,000	31,000	14,000			93,000
Variable Frequency Drive Replacement - Construction	560,000	370,000	168,000			1,098,000
Photovoltaic - Engineering	273,000	180,000	82,000			535,000
Photovoltaic - Construction	3,640,000	2,402,000	1,092,000			7,134,000
DISTRIBUTION & STANDPIPE IMPROVEMENTS						
Standpipe Riser Pipe Modifications- Engineering		17,000	18,000			35,000
Standpipe Riser Pipe Modifications- Construction		400,000	400,000			800,000
Standpipe Painting - Engineering		33,000	66,000	66,000		165,000
Standpipe Painting - Construction		1,161,000	1,604,000	2,181,000		4,946,000
Cathodic Protection - Engineering	200,000	220,000	210,000			630,000
Cathodic Protection - Construction	900,000	800,000	800,000	700,000		3,200,000
	26,354,000	16,008,000	12,458,000	2,947,000	579,000	58,346,000
INFLATION FACTOR 2% PER YEAR	100.0%	102.0%	104.0%	106.0%	108.0%	
	26,354,000	16,328,000	12,956,000	3,124,000	625,000	59,387,000
MINOR CAPITAL (5% ANNUAL INCREASE)	200,000	210,000	221,000	232,000	244,000	1,107,000
	26,554,000	16,538,000	13,177,000	3,356,000	869,000	60,494,000
NOTE: 1 Chicago Paying 50%						

**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

This Page left blank intentionally

**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

DUPAGE PUMP STATION IMPROVEMENTS



**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

PROJECT: 10 MW Electrical Generation Facility

LOCATION: East side of the DuPage Pumping Station service yard

DESCRIPTION: Construct building and install four 2.5 MW diesel fueled stand-by generators.

PURPOSE: Backup electrical power to provide average day flow.

BENEFIT: To maintain pumping operations during electrical power outages. In addition, installed generation could allow DWC to enter into a "curtailable" electric rate structured contract if available and economically advantageous.

ESTIMATED COST (2008 DOLLARS):

ENGINEERING: \$1,105,000

LAND/ROW: Constructed on property owned by Commission

CONSTRUCTION: \$16,226,000

TIMING: Fiscal year 2008-2009 – Construction begins

**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

PROJECT: Site Improvements

LOCATION: East side, front yard and perimeter of the DuPage Pumping Station

DESCRIPTION: Install perimeter fencing, re-design northern parking area and driveway, and add new visitor parking area.

PURPOSE: Provide additional security for the pumping station, its employees, and provide control of visitor access to the property.

BENEFIT: Enhance the level of security at the DuPage Pumping Station to comply with Department of Defense standards.

ESTIMATED COST (2008 DOLLARS):

ENGINEERING: \$200,000

LAND/ROW: Constructed on property owned by Commission

CONSTRUCTION: \$2,000,000

TIMING: Fiscal year 2008-2009 – Construction begins

**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

PROJECT: Garage/Office Building Facility

LOCATION: DuPage Pumping Station service yard

DESCRIPTION: Construct building.

PURPOSE: Provide vehicle and equipment storage eliminated by new generator building.

BENEFIT: Provide protection and to extend the life of Commission vehicles and equipment, while providing new office space required by staff.

ESTIMATED COST (2008 DOLLARS):

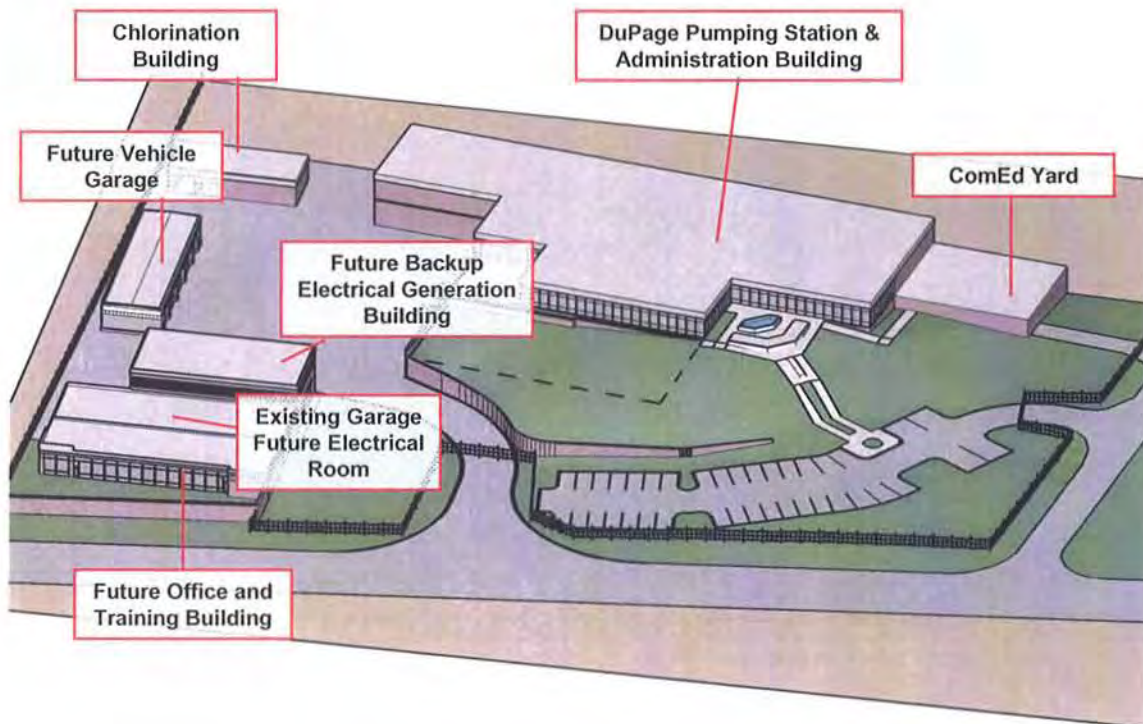
ENGINEERING: \$145,000

LAND/ROW: Constructed on property owned by Commission

CONSTRUCTION: \$2,407,000

TIMING: Fiscal year 2008-2009 – Construction begins

DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN



DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN

PROJECT: Pump #10

LOCATION: DuPage Pumping Station

DESCRIPTION: Install 30 MGD split case centrifugal pump and associated piping in space reserved for future pump.

PURPOSE: To increase firm pumping capacity from 210 MGD to 240 MGD to satisfy future demand requirements.

BENEFIT: To keep up with current rising water demands, new customers and maintain current ability to remove pumps from service without reducing pumping capacity.

ESTIMATED COST: (2008 DOLLARS)

ENGINEERING: \$53,000

LAND/ROW: Improvements to be constructed on property presently owned by the Commission.

CONSTRUCTION: \$526,000

TIMING: Fiscal year 2012-2013 – Engineering
Fiscal year 2012-2013 – Installation

PROPOSED PUMP #10
DU PAGE WATER COMMISSION



**DuPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

PROJECT: Material and Equipment Storage Facility

LOCATION: South of the DuPage Pumping Station reservoir

DESCRIPTION: Three sided material storage and a garage for heavy equipment.

PURPOSE: To stockpile granular and landscape materials for facilities maintenance and a garage for heavy vehicles and equipment.

BENEFIT: To provide indoor housing for vehicles and equipment and allowing for materials on hand.

ESTIMATED COST (2008 DOLLARS):

ENGINEERING: \$75,000

LAND/ROW: Constructed on property owned by Commission

CONSTRUCTION: \$600,000

TIMING: Fiscal year 2008-2009 – Construction begins

PROPOSED MATERIAL AND EQUIPMENT
STORAGE FACILITIES
DU PAGE WATER COMMISSION

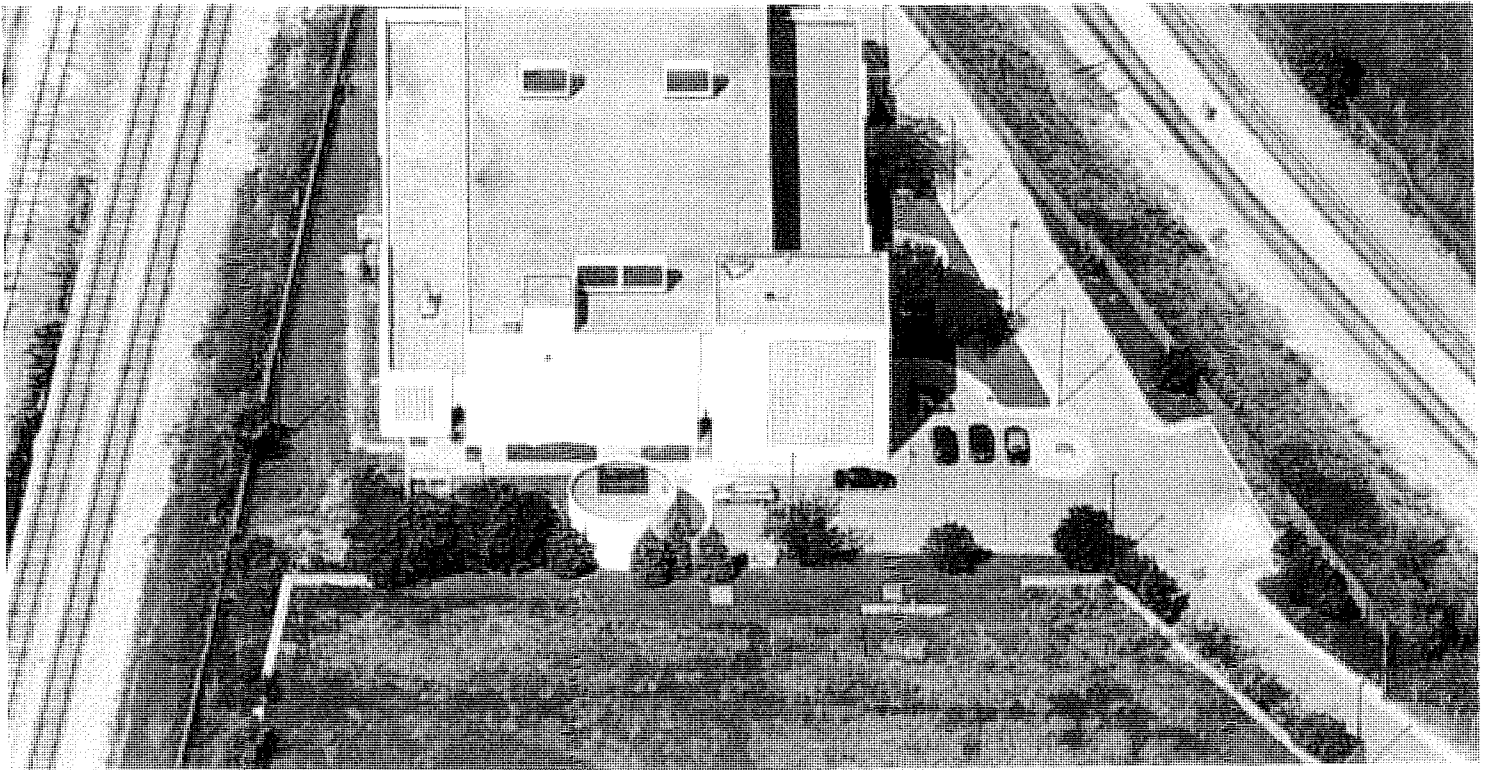


**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

This Page left blank intentionally

**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

LEXINGTON PUMP STATION IMPROVEMENTS



**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

PROJECT: Electrical Generation Facility

LOCATION: City of Chicago Lexington Pumping Station

DESCRIPTION: Construct building and install four 2.5 MW diesel fueled stand-by generators. Per the Intergovernmental Agreement with the City of Chicago, the Chicago Department of Water Management will reimburse half of the cost of generation facility up to \$8.5 million. The Commission would provide initial funding and the Chicago Department of Water Management will reimburse the Commission with a 10% credit against the Commission's water purchases.

PURPOSE: To provide critical backup electrical power at Lexington Pumping Station.

BENEFIT: To provide continuous pumping operations to the DuPage Pumping Station during electrical power outages in the City of Chicago. In addition, installed generation could allow the City to enter into a "curtailable" electric rate structured contract if available and economically advantageous.

ESTIMATED COST (2008 DOLLARS):

ENGINEERING: \$1,236,000

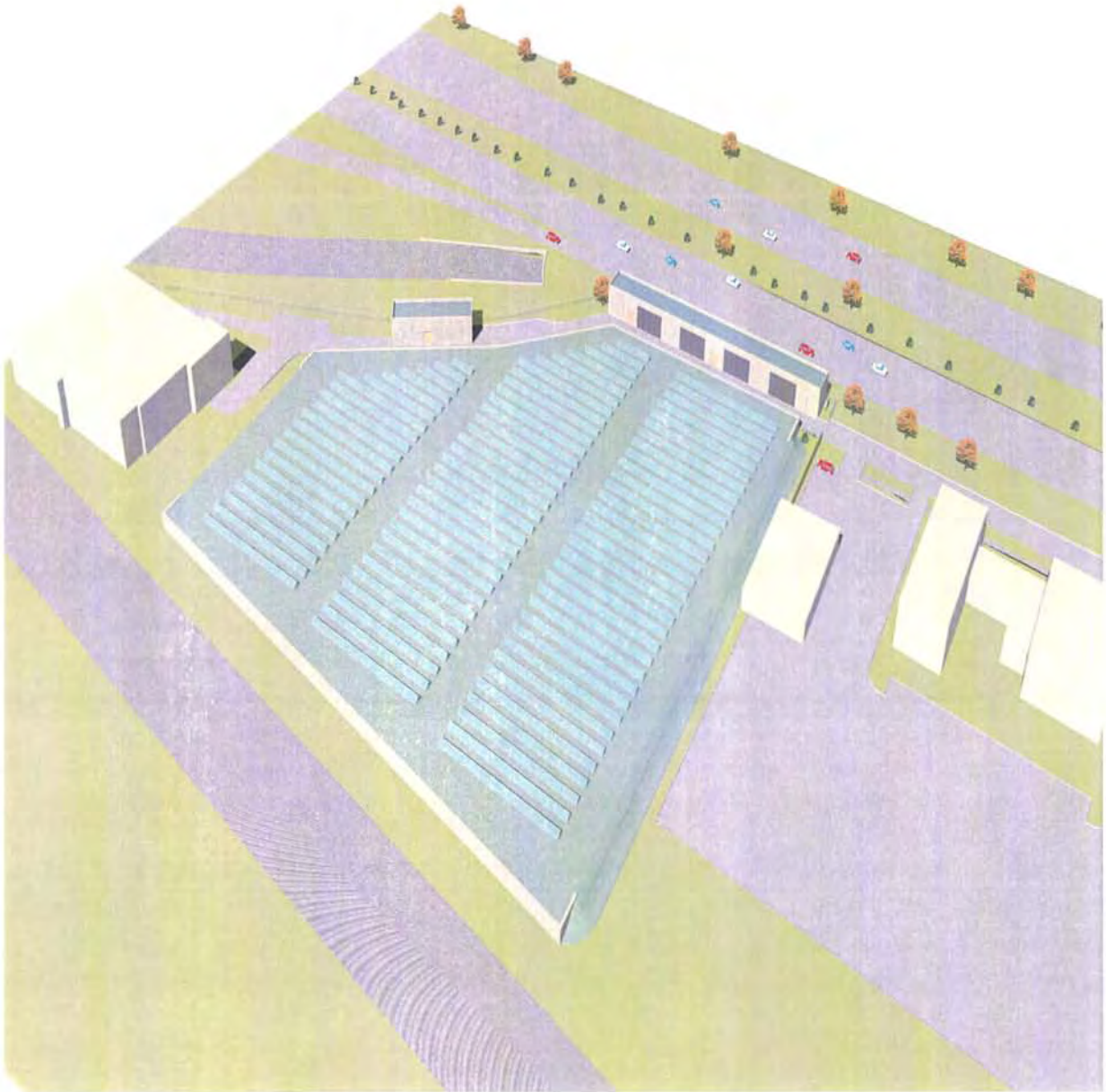
LAND/ROW: Construction on Lexington Pumping Station property

CONSTRUCTION: \$15,136,000

REIMBURSEMENT: \$8,186,000

TIMING: Fiscal year 2008-2009 – Construction begins

**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**



**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

PROJECT: Variable Frequency Drive Replacement

LOCATION: City of Chicago Lexington Pumping Station

DESCRIPTION: Replace the original two variable frequency drive units. Per the Intergovernmental Agreement with the City of Chicago, the Commission will provide initial funding and the Chicago Department of Water Management will reimburse half of the cost of the variable frequency drive units to the Commission with a 10% credit against the Commission's water purchases.

PURPOSE: To replace older existing variable frequency drive units at the Lexington Pumping Station with more reliable units.

BENEFIT: The existing variable frequency drive units are older models that take up a large space at the Lexington Pumping Station and replacement parts are difficult to obtain. The installation would be done as part of the installation of electrical generation facilities.

ESTIMATED COST (2008 DOLLARS):

ENGINEERING:	\$92,000
LAND/ROW:	Construction on Lexington Pumping Station property
CONSTRUCTION:	\$1,098,000
REIMBURSEMENT:	\$595,000

TIMING: Fiscal year 2008-2009 – Construction begins

**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**



**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

PROJECT: Solar Photovoltaic System

LOCATION: City of Chicago Lexington Pumping Station

DESCRIPTION: Install solar photovoltaic system on top of 30 million gallon reservoir at the Lexington Pumping Station. The solar photovoltaic system will generate 1.0 MW. Per the Intergovernmental Agreement with the City of Chicago, the Commission will be responsible for half of the cost of generation facility up to \$4.0 million. The Commission would provide initial funding and the Chicago Department of Water Management will reimburse the Commission with a 10% credit against the Commission's water purchases.

PURPOSE: To work together with the City of Chicago to construct a solar photovoltaic system. The Commission pays approximately 80% of the electrical cost for the Lexington Pumping Station.

BENEFIT: To promote "green" power instead of conventionally produced electricity.

ESTIMATED COST (2008 DOLLARS):

ENGINEERING: \$534,000

LAND/ROW: Construction on Lexington Pumping Station property

CONSTRUCTION: \$7,134,000

REIMBURSEMENT: \$3,834,000

TIMING: Fiscal year 2008-2009 – Construction begins

**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**



**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

This Page left blank intentionally

**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

DISTRIBUTION & STORAGE IMPROVEMENTS



**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**

PROJECT: Standpipe Riser Pipe Modifications

LOCATION: Standpipes

DESCRIPTION: Install modified inlet riser pipes within standpipes.

PURPOSE: To allow for better mixing of water when filling tanks.

BENEFIT: By lengthening and providing openings on the inlet riser pipes, better mixing of water by de-stratification will assist in reducing taste and odor problems that result from aged water.

ESTIMATED COST (2008 DOLLARS):

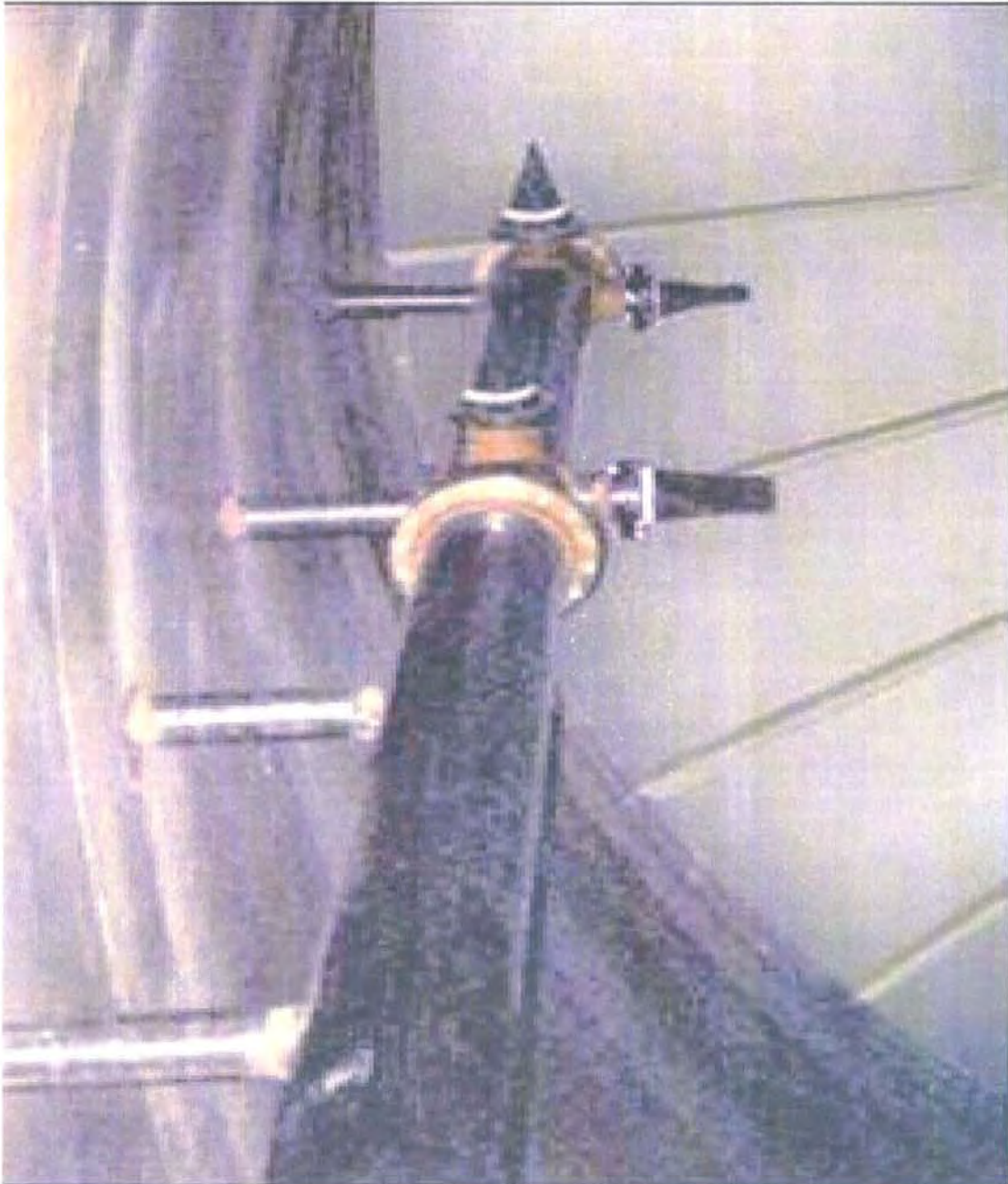
ENGINEERING: \$35,000

LAND/ROW: Improvements to be constructed on property presently owned by the Commission.

CONSTRUCTION: \$800,000

TIMING: Fiscal year 2009-2010 – Engineering begins (Tanks 4W & 3)
Fiscal year 2009-2010 – Construction begins (Tanks 4W & 3)
Fiscal year 2010-2011 – Engineering begins (Tanks 1 & 2)
Fiscal year 2010-2011 – Construction begins (Tanks 1 & 2)

**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**



DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN

PROJECT: Repainting Commission Standpipes

LOCATION: Tank 1 Roselle
Tank 2 Glendale Heights
Tank 3 Naperville
Tanks 4E & W Unincorporated Lisle Township

DESCRIPTION: Removal of existing coating system and apply new coating system.

PURPOSE: Normal maintenance and the mitigation of corrosion.

BENEFIT: Extend the life of the standpipes.

ESTIMATED COST: (2008 DOLLARS)

ENGINEERING: \$165,000

LAND/ROW: Improvements to be constructed on property presently owned by the Commission.

CONSTRUCTION: \$4,946,000

TIMING: Fiscal year 2009-2010 – Engineering begins (Tank 3)
Fiscal year 2009-2010 – Construction begins (Tank 3)
Fiscal year 2010-2011 – Engineering begins (Tanks 4 E & W)
Fiscal year 2010-2011 – Construction begins (Tanks 4 E & W)
Fiscal year 2011-2012 – Engineering begins (Tanks 1 & 2)
Fiscal year 2011-2012 – Construction begins (Tanks 1 & 2)

**DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN**



DUPAGE WATER COMMISSION
2008 – 2009
FIVE YEAR CAPITAL IMPROVEMENT PLAN

PROJECT: Corrosion Mitigation of Steel Water Mains

LOCATION: Throughout DuPage and Cook Counties

DESCRIPTION: Design and construction of corrosion mitigation measures for steel water mains.

PURPOSE: Mitigating the influences of corrosion, and/or stray electrical current, on approximately 48 miles of the Commission's steel water main.

BENEFIT: Extend the life of the water mains which will increase the time between replacement and decrease the amount of water lost due to leakage.

ESTIMATED COST: (2008 DOLLARS)

ENGINEERING: \$630,000

LAND/ROW: Improvements to be constructed on property presently owned by the Commission.

CONSTRUCTION: \$3,200,000

TIMING:

- Fiscal year 2008-2009 – Construction begins (South TM)
- Fiscal year 2008-2009 – Construction begins (90" Reverse Current)
- Fiscal year 2008-2009 – Engineering begins (TOB E-87 South)
- Fiscal year 2009-2010 – Construction begins (TOB E-87 South)
- Fiscal year 2008-2009 – Engineering begins (TOB E-87 North)
- Fiscal year 2009-2010 – Construction begins (TOB E-87 North)
- Fiscal year 2009-2010 – Engineering begins (TSW-3/98)
- Fiscal year 2010-2011 – Construction begins (TSW-3/98)
- Fiscal year 2009-2010 – Engineering begins (TW-2)
- Fiscal year 2010-2011 – Construction begins (TW-2)
- Fiscal year 2009-2010 – Engineering begins (FOB-85)
- Fiscal year 2010-2011 – Construction begins (FOB-85)
- Fiscal year 2010-2011 – Engineering begins (FSW-1/89)
- Fiscal year 2011-2012 – Construction begins (FSW-1/89)
- Fiscal year 2010-2011 – Engineering begins (FNW-2/89)
- Fiscal year 2011-2012 – Construction begins (FNW-2/89)

DuPAGE WATER COMMISSION 2008 – 2009 FIVE YEAR CAPITAL IMPROVEMENT PLAN

DuPage Water Commission Steel Pipeline



H:\GIS\SteelPipe.pdf
Pipeline_Material_8.5x11.mxd

1/30/07