



# Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street  
Chicago, IL 60611

## Legislation Details (With Text)

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### TRANSMITTAL LETTER FOR PUBLIC HEARING OF OCTOBER 7, 2010

#### COMMITTEE ON ENGINEERING

Mr. Richard Lanyon, Executive Director

Report on the District's Capital Projects to be funded by the anticipated December 2010 Bond Sale

Dear Sir:

The Engineering Department and the Treasurer have examined capital fund balances in relation to District projects currently identified under the Capital Improvement Program and determined that a bond sale is required to maintain adequate balances to fund ongoing and expected capital projects.

Capital projects will be funded by the sale of up to \$500 million of general obligation capital improvement bonds. The project lists may be modified by subsequent budgets.

The general obligation capital improvement bonds will fund the following current and future projects:

73-161-2H McCook CUP Reservoir Stages 1 and 2, McCook - MWRD 25% Contribution  
73-161-DH McCook Reservoir Expanded Stage 2 Overburden Removal, SSA  
73-161-EH McCook Reservoir Vulcan Agreement Hard Costs, SSA  
73-161-GH Furnish and Deliver Miscellaneous Mining Equipment, McCook Reservoir, SSA  
73-161-JH McCook Reservoir Stage 2 Miscellaneous Overburden Removal, SSA  
75-208-2H Calumet TARP - Torrence Avenue Leg  
77-235-2F Thornton Composite Reservoir - Material Service Corporation Agreement, CSA  
77-235-2F Thornton Composite Reservoir - Army Corps Review  
91-177-2E Plant Process Computer - Post Award Contract  
91-177-AD Computer Control Center  
91-177-AE Plant Process Computer A, Stickney WRP  
91-177-CE Distributed Control System for Solids Processes at Stickney WRP, Mainstream PS and Other Remote Stations, SSA  
91-177-DE Distributed Control System for West Side PS and Racine Avenue PS, SSA

92-605-2P Phase II Additions and Alterations to Sludge Treatment Facilities at Fox River WRD's Main Plant  
93-232-2M Hydraulic Improvements, Calumet WRP  
93-232-2M Hydraulic Improvements, Calumet WRP- Post Award Engineering Services  
96-114-2P Sludge Thickening Facilities at Stickney WRP-Professional Services  
96-251-2P Sludge Thickening Facilities, Calumet WRP  
98-260-2M Coarse Screens Installation, Piping and Electrical Work, 95th St. and 125th St. Pumping Stations  
98-802-2P Distributed Control System Procurement  
99-180-1M Ventilation and Other Improvements  
99-269-2P Lining of Lagoons 1 and 2  
99-269-AM Furnish and Deliver Bonneted Gate Valves  
99-269-EM Furnish and Deliver Four 72MGD Pumps  
99-467-2E Electrical Upgrade; Pumps, Motors and Drives Replacement; Elevator Upgrades, Egan WRP  
00-273-1V Various Building Improvements, Calumet WRP  
00-275-2V Research and Development Facility, Calumet WRP  
00-275-2V Building Envelope Investigation for New Monitoring and Research Building at the Calumet WRP  
00-473-1D Replace Casework, Fume Hoods and Miscellaneous Work, Egan, Stickney and Kirie WRPs  
00-519-2E Switchgear and Telephone Improvements  
01-101-1M 150 DT/Day Biosolids Processing Facility, Stickney WRP  
01-103-2S 39th Street Conduit Rehabilitation Phase I Bypass Tunnel, SSA  
01-103-2S 39th Street Conduit Rehabilitation Phase I Bypass Tunnel, SSA - Professional Services Post Award and 43rd St. and East Avenue Control Structure - Professional Services  
01-191-1D Mainstream and Des Plaines Dewatering Chambers Replace Drip Ceiling (Rebid)  
01-198-AD Demolition of Sludge Disposal Building, Rehabilitation of Pump and Blower House and Coarse Screen Building, Stickney WRP  
01-353-2M Kirie Pump Station Rehabilitation, Kirie WRP  
01-813-2M Centrifuge Work at Stickney, Calumet and Egan WRPs, New Boilers at Kirie WRP, Scum and Grit Piping at Stickney WRP  
01-815-1E Lightning Protection  
01-817-2E Electrical Equipment Upgrades at Kirie, Egan, North Side and Hanover Park WRPs  
02-009-3S Rehabilitation of Evanston Intercepting Sewer Lake Street Leg  
02-010-3S Evanston Intercepting Sewer Orrington Avenue Leg Rehabilitation, NSA  
02-013-3E Electrical Distribution Improvements, NSA  
02-111-3M TARP Pump #8 Rehabilitation and Sump Pumps in North Pump House, Mainstream PS  
02-111-3M TARP Pump #8 Rehabilitation and Sump Pumps in the North Pump House, Mainstream PS (Furnish and Deliver Shaft Seal)  
02-294-3D Calumet WRP Site Preparation for Improvement Contracts  
03-122-3S Upper Des Plaines Intercepting Sewers 12 and 13B Rehabilitation, SSA  
03-123-3S Broadview - Bellwood Sewer Rehabilitation II  
03-296-3M Installation of Central Boiler Facility, Calumet WRP  
03-606-3P Replacement of Heat Exchangers at the Fox River WRD, Main Plant - Professional Services  
04-125-3S Upper Des Plaines Pump Station Rehabilitation and TARP Connection, SSA  
04-125-3S Upper Des Plaines Pumping Station Rehabilitation and TARP Connection, SSA - Post Award  
04-128-3P Westside Primary Settling, Aerated Grit, Battery A, Imhoff and Skimming Tank Replacement, Stickney WRP  
04-128-3P Westside Circular Primary Tanks and Aerated Grit Tanks, Stickney WRP - Professional Services  
04-128-3P Westside Primary Settling Tanks - Battery A Imhoff Replacement and Westside Grit Handling Improvements, Stickney WRP, Post Award  
04-129-3P Westside Grit Handling Improvements, Stickney WRP  
04-131-2D C/D Service Tunnel Rehabilitation - Phase I, Stickney WRP  
04-201-4F Tollway Dam, Grout Curtain and Quarry Plugs, Thornton Composite Reservoir, CSA  
04-201-4F Tollway Dam, Grout Curtain and Quarry Plugs, Thornton Composite Reservoir, CSA -Professional Services Post Award - B and V  
04-201-4F Tollway Dam, Grout Curtain and Quarry Plugs, Thornton Composite Reservoir, CSA -Professional

Services Post Award - MWH

04-202-4F Connecting Tunnels and Gates, Thornton Composite Reservoir, CSA

04-202-4F Connecting Tunnels and Gates, Thornton Composite Reservoir, CSA - Professional Services Post Award

04-203-4F Final Reservoir Preparation, Thornton Composite Reservoir, CSA

04-203-4F Final Reservoir Preparation, Thornton Composite Reservoir, CSA - Professional Services Post Award

04-294-3M Calumet TARP Valve Isolation and Pump Station Upgrade, Calumet WRP

04-299-2P Aeration Batteries A, B, C, E1, and E2 Improvements, Calumet WRP

04-491-3S Egan Sludge and Centrate Pipeline Replacement, NSA

04-823-3P Preliminary Treatment Facilities, Stickney WRP, Calumet WRP - Professional Services

04-824-2P Tertiary Filter Rehabilitation, Pump Variable Frequency Drives and Other Plant Improvements, Egan WRP, Hanover Park WRP, Kirie WRP

04-825-3M Install New Blower No. 2 at Stickney WRP and Replace Blower Nos. 1 and 7 at North Side WRP

05-018-2S Sewer and Structure Rehabilitation, NSA - RE-BID

05-144-3D Lagoon 23 Lining and Lysimeters Installation, LASMA, HASMA and Calumet WRP

05-146-3M Mainstream South Pump House TARP Pumps Rehabilitation, Stickney WRP

05-607-1P Ammonia Removal Improvement Project at the Fox River Water Reclamation District Main Plant Reservoir, Lemont WRP

05-711-3P Plant Expansion, Lemont WRP - Professional Services

05-832-3M Furnish and Deliver One Single - Stage Blower and Two Multi-Stage Blowers, Stickney WRP and North Side WRP

05-836-3D Lockport Power House Sluice Gates Replacement, SSA

06-020-3P Battery E, North Side WRP

06-020-3P Battery E, North Side WRP - Professional Services (Preliminary Design)

06-020-3P Battery E Facilities at the North Side WRP (Final Design) Professional Services

06-020-3P Battery E, North Side WRP, Post Award - Professional Services (Preliminary Design)

06-023-3P Stop Logs and Diversion Pumps at Wilmette P.S. and Evanston P.S. Rehabilitation, NSA- Professional Services

06-023-3P Stop Logs and Diversion Pumps at Wilmette P.S. and Evanston P.S. Rehabilitation, NSA

06-024-3M Effluent and Potable Water Piping Upgrades, North Side WRP

06-151-3V Monitoring and Research Laboratory Facility, Stickney WRP

06-151-3V Monitoring and Research Laboratory Facility, Stickney WRP - Professional Services

06-154-3S Summit Conduit Rehabilitation, SSA

06-155-3S Salt Creek Intercepting Sewer 2 Rehabilitation, SSA

06-156-3P Grit Piping Replacement, Stickney WRP

06-158-3S Des Plaines River Intercepting Sewer Rehabilitation, SSA

06-212-3M Calumet TARP Pumping Station Improvements, Calumet WRP

06-212-3M TARP Pump E1, W1 Replacement, Variable Frequency Drives, and Mechanical Bar Screens, Calumet WRP - Professional Services

06-215-3D Lagoons 3 and 4 Lining, Calumet WRP

06-218-3M Blower Nos. 9 and 10 and Air Main Installation, Calumet WRP

06-357-3S Upper Des Plaines Intercepting Sewer 20B Rehabilitation, NSA

06-358-3M Gate Control Equipment Upgrade at TARP Control Structures, Kirie WRP, NSA

06-359-3S Upper Des Plaines Intercepting Sewer 14A Rehabilitation, NSA

06-360-3S Upper Des Plaines Intercepting Sewer 14B Rehabilitation, NSA

06-363-3D CUP O'Hare Reservoir Repair and Rehabilitation, NSA

06-363-3D CUP O'Hare Reservoir Repair/Rehabilitation, NBCR and NSC Restoration, NSA -Professional Services

06-494-3P Centrifuge Building and Sludge Loading System Upgrades, Egan WRP

06-526-3P Infrastructure and Process Needs Feasibility Study, Hanover Park WRP

06-839-3E TARP Radio Upgrade and Repeater Antenna, CSA, SSA, NSA

06-842-3E DCS and Electrical Work, Hanover Park WRP, Kirie WRP, Egan WRP

06-843-3E Switchgear Replacement at Devon and Webster In-stream Aeration Stations and O'Hare Reservoir  
06-844-3C Sewer Flow Monitoring, CSA, NSA, SSA  
07-027-3S North Side Sludge Pipeline Replacement - Section 1, NSA  
07-028-3S Harms Road 2 Rehabilitation, NSA  
07-030-3D North Branch of Chicago River and North Shore Channel Restoration, NSA  
07-031-3C Computational Fluid Dynamics Model Study of the Proposed North Side Aeration Tanks, Final Settling Tanks and Appurtenant Flow Distribution Structures, North Side WRP  
07-162-2S Westdale Gardens Pumping Station and Force Main, Northwest 8A Extension A, SSA  
07-163-3M Research and Development Building HVAC Improvements, Stickney WRP  
07-164-3C TARP Modeling Phase II of Mainstream/Des Plaines TARP System  
07-168-3P Scum Concentration, Centrifuge Building, Preliminary and Imhoff Tanks, Elevator Improvements, Diffuser Plate and Trailer Replacement, SSA, LASMA  
07-220-3P Primary Settling Tanks and Grit Removal Facilities, Calumet WRP  
07-220-3P Primary Settling Tanks and Grit Removal Facilities, Calumet WRP - Professional Services Post Award  
07-221-3M TARP Pump Station Mechanically Cleaned Bar Screen Replacement, Calumet WRP  
07-222-3C TARP Modeling Phase II of Calumet TARP System  
07-497-3D Wet Weather Equalization Ponds, Egan WRP  
07-854-3M Emergency Elevator Improvements at Kirie WRP, Hanover Park WRP  
08-034-3S Inverted Siphon Reconstruction, NSA  
08-035-3V Data Center, North Side WRP  
08-041-3P Rehabilitation of Final Settling Tanks 11, 12, 13 and 14 of Batteries A, B and C, North Side WRP  
08-170-3D Office, Shop and Storage Facility Service Tunnel Rehabilitation, Stickney WRP  
08-171-3P Westside Imhoff Battery A and Skimming Tank Demolition, Stickney WRP  
08-171-3P Westside Imhoff Battery A and Skimming Tank Demolition, Stickney WRP, Professional Services Post Award  
08-172-3S Inverted Siphon Reconstruction, SSA  
08-224-3D Lagoons 14 and 15 Lining, Calumet WRP  
08-227-3S Inverted Siphon Reconstruction, CSA  
08-229-3P Digester Gas Storage Facility, Calumet WRP  
08-529-3D Retention Ponds Deepening, Lining and Modifications, Hanover Park WRP  
08-530-3P Digester Facility Improvements, Hanover Park WRP, Egan WRP  
08-714-3P Lemont Pumping Station and Force Mains, CSA, SSA  
08-714-3P Lemont Pumping Station and Force Mains and Reservoir, Lemont WRP, Professional Services Post Award  
08-862-3D Lockport Power House Interior North Wall Repairs, SSA  
08-865-3P Aeration Tanks and Elevators Rehabilitation, North Side, Stickney, Kirie, Egan and Hanover Park WRPs and Bartlett P.S.  
08-866-3S Inverted Siphon Reconstruction, NSA, CSA, SSA - Professional Services  
08-867-3P Digester Gas Storage Facility, Stickney WRP, Calumet WRP and Hanover Park WRP  
08-867-3P Digester Gas Storage Facility, Stickney WRP, Calumet WRP and Hanover Park WRP - Professional Services  
09-042-3P Sludge Concentration Tank Improvements, North Side WRP - Professional Services  
09-043-3P Grit Dewatering Modifications, North Side WRP - Professional Services  
09-044-3P Aeration Blower and Raw Sewage Pump Upgrades, North Side WRP  
09-044-3P Aeration Blower and Raw Sewage Pump Upgrades, North Side WRP - Professional Services  
09-044-3P Aeration Blower and Raw Sewage Pump Upgrades, North Side WRP - Professional Services Post Award  
09-045-3D Guard House and Main Plant Entrance Relocation, North Side WRP  
09-176-3P Sludge Thickening Facilities, Stickney WRP  
09-176-3P Sludge Thickening Facilities, Stickney WRP - Professional Services Post Award  
09-180-4F McCook Reservoir Expanded Stage 2 Incremental Costs

09-181-3P Battery C Airlift Rehabilitation, Stickney WRP  
09-231-3E Variable Frequency Drive and Motor Replacement for West TARP Pumps, Calumet WRP  
09-232-3E Furnish and Deliver Distributed Control System Cluster I/O Replacement, CSA  
09-499-3D Twin Lakes Reservoir Rehabilitation, NSA  
09-871-3S Inverted Siphon Inspection, NSA, SSA, CSA  
09-872-3D Civil, Structural and Architectural Engineering Consulting Services  
09-876-3P Centrifuge Replacement, Calumet WRP, Stickney WRP  
10-046-3P Battery D - Aeration Tank No. 8, North Side WRP  
10-047-3S North Shore 1 Rehabilitation, NSA  
10-236-3C TARP Modeling - Phase III of Calumet TARP System  
10-780-11 Rehabilitation of Fine Bubble Diffuser System at the North Side Water Reclamation Plant and Walters Road Pumping Station Improvements, North Side WRP  
10-881-3P Furnish and Deliver Temporary Technical Personnel Services to Engineering Department

Respectfully Submitted, Kenneth A. Kits, Director of Engineering, WSS:KMF:LS