

**Metropolitan  
St. Louis Sewer  
District**

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2350 Market Street  
St. Louis, MO 63103-2555  
(314) 768-6200

Exhibit MSD 16A5

October 30, 2008

Darrell Barber  
Missouri Department of Natural Resources  
1101 Riverside Drive  
Jefferson City, Missouri 65101

RE: State Revolving Fund Application – Missouri River Treatment Plant

Dear Mr. Barber;

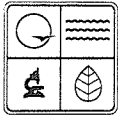
Enclosed please find the Metropolitan St. Louis Sewer District's application for SRF Loan assistance for the Missouri River Treatment Plant Secondary Expansion and Disinfection project, for your processing and inclusion in the State's next Intended Use Plan.

Thank you for your attention to this matter. Please let me know if there are any questions or comments related to this request, or if any additional information is needed.

Sincerely,

Bart Hager, P.E.  
Grants Program  
Engineering/Planning

C: Doug Garrett, MDNR  
Karl Tyminski  
Dennis Simon



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 WATER PROTECTION PROGRAM, FINANCIAL ASSISTANCE CENTER  
**CLEAN WATER STATE REVOLVING FUND LOAN APPLICATION**

Submit to: P.O. Box 176, Jefferson City, MO 65102-0176  
 ATTN: Financial Assistance Center

FOR OFFICE USE ONLY	
DATE RECEIVED	
LOAN NUMBER	
PRIORITY POINTS	

This application is for a Clean Water State Revolving Fund Loan described in 10 CSR 20-4.040

**APPLICANT INFORMATION**

1. NAME OF APPLICANT Metropolitan St. Louis Sewer District			
<input type="checkbox"/> Incorporated Municipality <input checked="" type="checkbox"/> Public Water/Sewer District <input type="checkbox"/> Other:			
APPLICANT TELEPHONE NUMBER WITH AREA CODE 314 - 768 - 6200    Ext.		APPLICANT FAX NUMBER WITH AREA CODE 314 - 768 - 6341	
APPLICANT MAILING ADDRESS 2350 Market Street			
CITY St. Louis	STATE MO	ZIP CODE + FOUR 63103-2555	COUNTY St. Louis City and County
AUTHORIZED REPRESENTATIVE NAME Jeffrey Theerman		AUTHORIZED REPRESENTATIVE TITLE Executive Director	
2. NAME OF PERSON TO CONTACT ABOUT THIS APPLICATION Bart Hager		TELEPHONE NUMBER WITH AREA CODE 314 - 768 - 6208    Ext.	
3. CONSULTING ENGINEER Black and Veatch			
CONSULTANT MAILING ADDRESS 15450 South Outer Forty Drive, Suite 200			
CITY Chesterfield	STATE MO	ZIP CODE + FOUR 63017-2062	
CONSULTANT TELEPHONE NUMBER WITH AREA CODE 636 - 532 - 7940    Ext.		CONSULTANT FAX NUMBER WITH AREA CODE 636 - 532 - 1465	
4. POPULATION (CURRENT CENSUS) 1,354,628		POPULATION OF AREA TO BE SERVED 197,000	
5. STATE SENATE DISTRICT NUMBER(S) 7, 24, 26		STATE REPRESENTATIVE DISTRICT NUMBER(S) 78 - 82, 85, 86, 88	

**6. PROPOSED PROJECT INFORMATION**

<input checked="" type="checkbox"/> Point Source Project	<input type="checkbox"/> Non-Point Source Project
	Decentralized/Cluster Wastewater System <input type="checkbox"/>
	On-Site System Rehabilitation/Replacement <input type="checkbox"/>
	Other Non-Point Source Project <input type="checkbox"/>

**Project Description (Attach Engineering Report as submitted to Missouri Water and Wastewater Review Committee, if applicable):**  
 MISSOURI RIVER WWTP SECONDARY TREATMENT EXPANSION AND DISINFECTION FACILITIES - Project No. 2006168  
 Design and construction of secondary treatment expansion and disinfection facilities at the Missouri River Treatment Plant. Engineering Report is attached.

**PERMIT INFORMATION** Factor A at 10 CSR 20-4.010 (1)(A)1

7. List National Pollutant Discharge Elimination System, or NPDES, Permit Number(s) of Water or Wastewater facilities affected by this project:

MO-0004391		

8. List Non-Permitted facilities to be eliminated by this project (attach list if necessary):

Name	Population Served	Type and Condition of Facility

PROJECT COST INFORMATION			
9. Cost Estimate Dated: 10/8/2007		10. Cost Breakdown for Designated Categories	
Engineering Planning and Design	\$4,700,000	I. Secondary Treatment	\$81,800,000
Engineering (Construction Phase)	\$2,600,000	II. Advanced Treatment	\$6,500,000
Engineering Inspection	\$5,200,000	IIIA. Inflow/Infiltration Correction	\$
Land and Easements*	\$	IIIB. Sewer Rehabilitation	\$
Construction	\$67,800,000	IVA. Collection Sewers	\$
Equipment	\$	IVB. Interceptor Sewers	\$
SRF Closing Costs (estimate 3 percent)	\$2,300,000	V. Combined Sewer Overflow Correction	\$
Other Costs (specify)	\$	VI. Storm Water	\$
Contingencies	\$5,700,000	VII. Non-Point Source	\$
<b>Total Project Costs</b>	<b>\$88,300,000</b>	<b>Total Project Costs</b>	<b>\$88,300,000</b>
Funding From Other Sources	\$0		
<b>Funding Request (this application only)</b>	<b>\$88,300,000</b>		
* These costs are generally not eligible for CWSRF funding.			
<b>11. DEBT INSTRUMENT</b>			
<b>A. Bonds</b>		<b>B. Capital Improvements Sales Tax</b>	
Date of Bond Election 8/5/2008		Date of Election / /	
Type of Bond Revenue		Dedicated? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Amount of Bond \$275,000,000		Sunset Provision? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>C. Other (specify):</b>			
<b>12. APPLICANT FINANCIAL INFORMATION</b> Factor C at 10 CSR 20-4.010(1)(A)3			
A. Median Household Income (from census) \$46,800.00			
B. Current monthly sewer use rate (for 5,000 gallons) \$23.86		Proposed sewer rate (for 5,000 gallons) \$24.34	
C. Sewer revenues for most recent year ended \$209,326,070.00		Most recent year's date of data used 6/30/2008	
D. Sewer operating expenditures for most recent year \$206,993,603.00			
<b>13. BOARD TRAINING</b> Factor C at 10 CSR 20-4.010(1)(A)3			
List any board training(s) related to wastewater utility management that current board members have attended in the last three years:			
Wastewater utility management training is included as part of each new Board member's orientation training. As well, ongoing training occurs during monthly Committee meetings and Board meetings.			

**14. WATERSHED INFORMATION** Factors A at 10 CSR 20-4.010 (1)(A)1 and Factor E at 10 CSR 20-4.010 (1)(A)5

<b>WATER BODY AFFECTED BY PROPOSED PROJECT</b> Missouri River	<input checked="" type="checkbox"/> Check if this is the receiving water body <input checked="" type="checkbox"/> Check if the body is classified <input type="checkbox"/> If affected water body is not classified, provide the nearest downstream water body
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Is proposed project identified in a multi-jurisdictional area watershed plan?  Yes  No If yes, provide a copy of the plan.

Does the proposed project serve more than one community?  Yes  No If yes, identify communities:

Chesterfield	Maryland Heights	Unincorporated St. Louis County
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Does the proposed project eliminate the need for multiple wastewater treatment facilities?  Yes  No

Does the proposed project address groundwater pollution?  Yes  No

**GROUNDWATER IS USED FOR:**  
Limited irrigation and drinking water wells.

**OTHER PROBLEMS ADDRESSED:**  
This project will enable the elimination of SSOs, which will reduce groundwater and surface water pollution.

**15. PROJECT TYPE (CHECK ALL THAT APPLY)** Factor B at 10 CSR 20-4.010 (1)(A)2

Combined sewer overflow/sanitary sewer overflow      Number of overflows per year: \_\_\_\_\_

Wastewater Treatment Facility (specify)      Has antidegradation report been submitted?  Yes  No  N/A

- New facility
- Increase capacity/increase level of treatment
- Rehabilitation/process improvement

Failing or failed on-site wastewater disposal system      Percentage of systems failing: \_\_\_\_\_ %

- On-site system replacement/rehabilitation
- Construction of a decentralized wastewater system
- New collection system

- Collection system rehabilitation primarily to address inflow/infiltration
- New collection system
- Upgrade or expansion of existing collection system
- Storm water detention
- Agricultural Best Management Practice
- Landfill capping, leachate collection, side slope seepage prevention and control system, and monitoring wells

The project addresses groundwater pollution by: Factors E at 10 CSR 20-4.010 (1)(A)5

- Addressing problems caused by petroleum storage tanks
- Addressing problems caused by a hazardous waste site participating in the department's Voluntary Cleanup Program
- Addressing water quality problems caused by inadequate landfill leachate collection systems

The project considers aquatic/riparian habitat by: Factor F at 10 CSR 20-4.010(1)(A)6

- Including measures to restore aquatic/riparian habitat and/or to prevent aquatic/riparian degradation

16. PROJECT SCHEDULE (READINESS TO PROCEED) Factor C at 10 CSR 20-4.010(1)(A)3	
Milestone	Anticipated Date
A. Antidegradation report submitted (for any new, expanded or upgraded wastewater treatment plant)	3/25/2008
B. Engineering Report and Facility Plan complete	4/10/2008
C. All other funding is secured (if necessary, bonds are voted)	8/5/2008
D. Engineering Plans and Specifications complete	9/1/2009
E. Construction start date	7/1/2010
F. Mandatory completion date (attach copy of compliance schedule)	/ /

**17. THE FOLLOWING INFORMATION IS REQUIRED BY 10 CSR 20-4.040(8) AND MUST BE INCLUDED WITH THIS APPLICATION FORM:**

- A project summary that includes the need for the project :
  - The project components including maps or drawings showing the project location
  - A cost estimate including a cost breakdown
- The most recent financial statement
- Proposed project schedule including:
  - Construction start date defined as the date of notice to proceed
  - Construction completion
  - Initiation of operation
  - Project completion

**18. SUPPLEMENTAL INFORMATION – DOCUMENTATION MUST BE ATTACHED** Factor C at 10 CSR 20-4.010(1)(A)3

- User charge system budgets showing revenues and expenses for the past five years.
- Documentation showing that an inflow/infiltration reduction program has been in place for the fast five years.
- Water or Energy Conservation Plan
- Proposed project is specifically identified in the applicant's master wastewater or capital improvement plan. (Master wastewater or capital improvement plan should be for a period of five or more years).
- Documentation indicating the percentage of failed on-site wastewater disposal systems to be replaced or rehabilitated.

**CERTIFICATION:**

The undersigned representative certifies that the information submitted in this application is true and correct to the best of his/her knowledge and that he/she is authorized to sign and submit this application. The applicant agrees, if a loan is awarded on the basis of this application, to comply with all applicable terms, conditions and procedures of the Department of Natural Resources, the applicable rules and regulations of the Missouri Clean Water Commission and the terms and conditions of the loan agreement.

**Incomplete applications will be returned.**

SIGNATURE OF AUTHORIZED REPRESENTATIVE <i>Jeffrey Theerman</i>	DATE 10/29/2008
NAME AND OFFICIAL TITLE (TYPE OR PRINT) Jeffrey Theerman, Executive Director	TELEPHONE NUMBER WITH AREA CODE 314 - 768 - 6245 Ext.

**PREPARER'S NAME AND SIGNATURE (IF APPLICABLE)**

SIGNATURE OF PREPARER <i>Bart Hager</i>	DATE 10/29/2008
NAME AND TITLE (PRINT OR TYPE) Bart Hager, Senior Civil Engineer, Planning	TELEPHONE NUMBER WITH AREA CODE 314 - 768 - 6208 Ext.