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**THE RILEY PURGATORY BLUFF CREEK  
 WATERSHED DISTRICT  
 ANNUAL REPORT  
 FOR YEAR ENDING DECEMBER 31, 2007**

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## **INTRODUCTION**

Pursuant to Minnesota Statutes Section 103D.351 and Minnesota Rules Section 8410.0150, the Board of Managers of the Riley Purgatory Bluff Creek Watershed District submits its 2007 Annual Activity Report. The report includes the District's members, technical and citizen advisors, summaries of the plans, goals, water management projects, and the permit and communication programs of the District. The District distributes its Annual Activity Report to the Minnesota Department of Natural Resources and the Board of Soil and Water Resources as provided by law.

Copies of the report or audit may be obtained from the District's Managers or engineering or legal advisors. The Managers invite comments and suggestions concerning this report.

**ACTIVITY REPORT**  
**Appointed Board Members for 2007**

In 2007, one new manager was appointed to the Board to fill a vacancy. The Board consists of five members<sup>1</sup>.

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NAME AND OFFICE	APPOINTING COUNTY	MAILING ADDRESS AND TELEPHONE NUMBER	DATE OF TERM EXPIRATION
Michael Casanova President	Hennepin	18559 Kristie Lane Eden Prairie, MN 55346 (952) 937-8372	7/30/2010
Kenneth Wencil Vice President	Carver	8412 Great Plains Boulevard Chanhassen, MN 55317 (952) 906-2181	7/30/2009
Howard Peterson Treasurer*	Hennepin	7021 Duck Lake Road Eden Prairie, MN 55346 (952) 934-2050	7/30/2009
Erin Ahola* Secretary	Hennepin	19080 Broadmoore Drive Eden Prairie, MN 55346 (952)934-5449	7/30/2008
James Landini Manager	Hennepin	10457 Zylon Road Bloomington, MN 55438	7/30/2008
Kristine Sundberg	Hennepin	18617 Covington Road Minnetonka, MN 55345	7/30/2008

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<sup>1</sup>In 2007, Ahola went off the Board and Sundberg was appointed to fill the term.





**Advisory Committee Members**  
*Citizen Advisory Committee Members*

<b>NAME AND OFFICE</b>	<b>RESIDENCE</b>	<b>MAILING ADDRESS</b>
Ms. Mary Borns <a href="mailto:mborns@corporatemechanical.com">mborns@corporatemechanical.com</a> 612-685-0439	Chanhassen	7199 Frontier Trail Chanhassen, MN 55317
Mr. Greg Halvorson <a href="mailto:halvo012@umn.edu">halvo012@umn.edu</a> 952-937-1957	Eden Prairie	9536 Lakeland Terrace Eden Prairie, MN 55347
Mr. John Bushey <a href="mailto:jabushey@mac.com">jabushey@mac.com</a> 952-934-9152	Eden Prairie	9000 Riley Lake Road Eden Prairie, MN 55347
Mr. Scott Maeyaert 952-945-0173	Chanhassen	7506 Erie Avenue Chanhassen, MN 55317
Mr. Steve Donen <a href="mailto:c_sdonen@yahoo.com">c_sdonen@yahoo.com</a> 952-974-9163	Chanhassen	7341 Frontier Trail Chanhassen, MN 55317
Mr. Jim Nehl <a href="mailto:jnehl@comcast.net">jnehl@comcast.net</a> 952-934-8540	Eden Prairie	8011 Island Road Eden Prairie, MN 55347
Mr. David Florenzano <a href="mailto:davidflorenzano@gmail.com">davidflorenzano@gmail.com</a> 952-937-5351	Eden Prairie	9470 Lakeland Terrace Eden Prairie, MN 55347
Mr. John Tyler <a href="mailto:johnt@hsa-healthsavingsaccounts.com">johnt@hsa-healthsavingsaccounts.com</a> 952-937-3838	Eden Prairie	17574 Belfast Cover Eden Prairie, MN 55347
Mike Krause 952-470-6888 – H	Chanhassen	7050 Utica Lane Chanhassen, MN 55317
Pat Mohr <a href="mailto:Lordmohr_mohr@msn.com">Lordmohr_mohr@msn.com</a>	Chanhassen	6890 Utica Lane Chanhassen, MN 55317

*Technical Advisory Committee Members*

NAME AND OFFICE	ORGANIZATION	MAILING ADDRESS AND TELEPHONE NUMBER
Alan Gray City Engineer	City of Eden Prairie	8080 Mitchell Road Eden Prairie, MN 55344 (951) 949-8420
Leslie Stovring Water Resources Coordinator	City of Eden Prairie	8080 Mitchell Road Eden Prairie, MN 55344 (952) 949-8327
Shelly Pederson City Engineer	City of Bloomington	1700 West 98 <sup>th</sup> Street Bloomington, MN 55431 (952) 563-4870
Scott Anderson Water Resources Engineer	City of Bloomington	1700 West 98 <sup>th</sup> Street Bloomington, MN 55431 (952) 563-4867
Lee Gustafson Director of Engineering	City of Minnetonka	14600 Minnetonka Boulevard Minnetonka, MN 55343 (952) 939-8239
Steve Lillehaug Assistant City Engineer	City of Minnetonka	14600 Minnetonka Boulevard Minnetonka, MN 55343 (952) 939-8234
Liz Stout Water Resources Engineer	City of Minnetonka	14600 Minnetonka Boulevard Minnetonka, MN 55343 (952) 939-8233
David Poggi Water Resources Engineer	City of Deephaven (Bolton & Menk, Inc.)	2638 Shadow Lane #200 Chaska, MN 55318 (952) 448-8838 x2607
James Landini City Engineer	City of Shorewood	5755 Country Club Road Shorewood, MN 55331 (952) 829-7145
Craig Dawson City Administrator	City of Shorewood	5755 Country Club Road Shorewood, MN 55331

## Consultants

The District retains independent contractor consultants who provide all of the necessary engineering, accounting, legal, public information, and administrative services without the need for employees' attendant salary, space, telephone, pension and insurance costs, while meeting statutory and regulatory requirements. The District's independent consultants effectively fulfill its obligations, goals, and objectives within the approved finances and budget. The following consultants served the District in 2007:

NAME	ORGANIZATION	MAILING ADDRESS AND TELEPHONE NUMBER
Robert Obermeyer	Barr Engineering Company Engineering Advisor *	4700 West 77 <sup>th</sup> St. Minneapolis, MN 55435 (952) 832-2600
Mark Enochs	CH2MHill	1295 Northland Drive Suite 200 Mendota Heights, MN 55120 (651) 688-8100
Dan Cavanaugh	Cavanaugh & Company P.A. Accounting Advisor	1660 South Hwy 100, #500 St. Louis Park, MN 55416
John Hoffman	ICS Agency, Inc. Insurance Agent	4901 West 77 <sup>th</sup> Street Minneapolis, MN 55435 (952) 835-4848
Paul R. Haik	Krebsbach and Haik, Ltd Legal Advisor	225 South Sixth Street, #4320 Minneapolis, MN 55415 (612) 333-7400
Mark C. Gibbs	HLB Tautges Redpath, Ltd. Auditor	4810 White Bear Parkway White Bear Lake, MN 55110 (651) 426-7000

\*Barr Engineer served as Engineer through September and thereafter CH2MHill.



## **Goals and Objectives of Prior Work Plan**

### *Implementation of Water Management Plan*

In the completed second generation plan, the District completed all of the lake use attainability analyses of its thirteen (13) major lakes and monitored its creeks for dissolved oxygen, pH, conductance, temperature, and turbidity. That analysis and the monitoring established the basis for the basic water management based approach in its third generation plan.

The District has classified and evaluated its waters using methods developed by the Minnesota Pollution Control Agency (MPCA) and the Minnesota Department of Natural Resources (MDNR). Rain storm events are monitored using recommendations of Metropolitan Council which accord with the MPCA's standards. With compliant methods, the District can assist the cities with their pollution prevention plans by developing TMDLs to prevent waters from becoming listed or improving and delisting ones that are impaired. The District has held detailed discussions with its municipalities in attempting to assist them with the anticipated water quality requirements of the various agencies, as the cities' current MS4 permits are coming up for renewal.

## **Goals and Objectives of Projected Work Plan**

### **Basic Water Management Projects**

#### *Lake Riley and Rice Marsh Lake*

In December of 2002 the cities of Eden Prairie and Chanhassen filed coordinated petitions with the District for the Lake Riley / Rice Marsh Lake Basic Water Management Project. The District established the petitioned project on December 20, 2004 on based the use attainability analysis of the lake that was prepared by its engineer. The project was designed to remedy water quality impacts from municipal sewage treatments discharges in the early 1970's, protect against degradation from the proposed construction of T.H. 212 between the lakes, and increased urbanization within the watershed.

#### *Riley Creek*

In 2007, the District established the Riley Creek Basic Water Management Project that was petitioned by the City of Eden Prairie. The water from Lake Riley feeds directly into the Riley Creek and affects its water quality. Since establishing the Lake Riley project in 2004, additional scientific research and analysis has revealed a large carp population in the lake that impairs its water quality. Dr. Sorenson of the University of Minnesota is conducting the research on species-specific odors (pheromones) of carp which is at the national forefront.

Research shows that the carp reproduce in large numbers and their feeding habit of rooting in the lake bottoms causes degradation of the lake's water quality. Based on the analysis, the Board has concluded that the construction of fish barriers and alum treatment, which are a part of the Lake

Riley project, should be coordinated with pheromone research that can be used to catch and remove carp.

#### *Round Lake*

In August of 2007, the District established the Round Lake Basic Water Management Project. The project will involve the construction of a new storm water basin and the upgrade of three existing ones, which drain to the lake. The upgraded basins are expected to reduce the phosphorous loading to the lake by approximately 13 to 17 percent. The new basin is expected to further reduce loading by approximately 5 to 8 percent. The project is expected to reduce the total phosphorous loading by 18 to 25 percent, thereby reducing the number of days the water quality exceeds the District's standard for recreational swimming.

#### *Creek Corridors Analysis*

The District has completed its corridor analyses which consists of a guide plan for the overall creek system and identifies wildlife, vegetation, and characteristics and morphology of the creeks themselves. The District continues to monitor at 17 different sites within the three creek systems: five on Bluff Creek; four on Riley; and eight on Purgatory. The District operates Watershed Outlet Monitoring Stations (WOMP), three on Purgatory Creek, one on Bluff and one station on Riley Creek, for more comprehensive storm event monitoring. The stations on Bluff and Riley Creeks are owned by the Metropolitan Council.

#### *Staring Lake/Purgatory Creek Recreation Area*

In 2007, the District closed out its Staring Lake Outlet/Purgatory Creek Recreation Area project in Eden Prairie which is a multi-purpose water storage, water quality, and management

project to treat urban surface water runoff and provide water quantity control for discharges into the Purgatory Creek Valley.

### *Bluff Creek*

The City of Chanhassen petitioned for the Bluff Creek Corridor Basic Water Management Project in 1997 and the engineering feasibility report was completed in 1999. The project was a comprehensive creek corridor management plan that addressed concerns related to the increasing urbanization of the area. After petitioning the project, the City raised issues and concerns and the District did not formally establish the project. The project will not proceed as petitioned and is being closed out.

### **Summary of Permits, Variances and Enforcement**

The District coordinates its permit and project construction reviews with the engineering and planning staffs of the municipalities. In 2006, the District issued a total of 28 permits that included 1 extension, and 3 Minnesota Department of Natural Resources permits, pursuant to the District's general permitting authority. The permitted activities were located through the municipalities of the District as follows: 12 in Chanhassen, 11 in Eden Prairie, 3 in Minnetonka, and 2 in Bloomington. Of the total permits issued three (3) required property covenants, six (6) well abandonment certifications, and two (2) proposed wetland impacts governed by the 1991 Wetland Conservation Act. Permit fees cover the costs of field inspections.

The traditional and primary role of the State over management of water quality is eroding due to expansion of Clean Water Act regulation. Issuance of recent Clean Water Act permits under the National Pollutant Discharge Elimination program, particularly MS4 and construction permits for an areas of an acre or more, may preempt or conflict with municipal, county and watershed rules

thereby superseding those local permit controls. Given new state wide rules, the District is evaluating the efficacy of a continued permit program, in light of preemption and over lapping regulation.

### **Summary of Water Quantity and Quality Monitoring Data**

In addition to use attainability analysis of lakes, the District has incorporated storm event monitoring by the Minnesota Pollution Control Agency and the Metropolitan Council into its data collection efforts. The District has incorporated 3 WOMP (Watershed Outlet Monitoring Stations) stations throughout the District, in addition to the Metropolitan Environmental Services Station on Riley Creek. The stations were installed in 2002/2004 and the District began sampling in the spring of 2004 to monitor the impacts of storm-water by monitoring water chemistry, which is important and affects the biological integrity of the water resources. Biological integrity is a critical component that reflects the condition of aquatic communities inhabiting natural and unimpaired water bodies or habitats. With this data, the District can assist its municipalities with TMDL requirements anticipated in renewed MS4 permits. The Annual Report of the Chief Engineer reports and summarizes water quantity and quality monitoring data collected by the District and is incorporated by reference.

### **Local Plan Adoption and Implementation**

The District approved the local water management plan of the City of Eden Prairie.

### **Annual Communication**

For its annual communications, the District published articles in community newspapers. The District held an inaugural State of the Watershed public meeting which featured Dr. Peter Sorensen from the University of Minnesota who spoke on managing invasive species, carp, and

attracted upwards of 200 attendees. An article about the District's efforts to manage its carp population was carried by more than 200 publications worldwide.

#### **Solicitation of Interest Proposals**

In 2006 the District solicited professional services by publication in local news papers. Pursuant to statute the District is required to solicit for services at least every two years. The District will solicit services again in 2008.

#### **Reporting of Revenues and Expenditures**

An audit report prepared by a certified public accounting firm is incorporated by reference. The audit includes a balance sheet, a classification of revenues and expenditures, an analysis of changes in final balances, and contains all additional statements considered necessary for full financial disclosure. The audit firm specializes in Auditing Watershed Boards.

#### **FINANCIAL AND AUDIT REPORT**

##### **Budget Adopted for 2008**


Attached and incorporated by reference is the District's proposed budget that was adopted for 2008.

## CONCLUSION

With its second generation plan analysis complete, and a new third generation plan focused on project planning under way, the District is positioned to undertake larger basic water management projects to protect and improve the water quality of the District. Projects are an important step in assuring the District's waters comply with the requirements of the mandates of the Minnesota Pollution Control Agency, pursuant to the Federal Clean Water Act, and assisting cities in their water pollution prevention plans.

Respectfully submitted,

RILEY-PURGATORY-BLUFF CREEK  
WATERSHED DISTRICT

By   
Michael Casanova  
President

