



East Dakota Water Development District

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MINUTES

December 20, 2007

The Board of Directors of the East Dakota Water Development District (EDWDD) held a regular meeting on December 20, 2007 at the EDWDD Office, 132B Airport Drive, Brookings. Chairman Dempsey called the meeting to order at 1:05 p.m. The following persons attended:

Directors Present

Lois Brown
Bill Dempsey
Curt Eggers
Doug Feten
Vincent Flemming
Martin Jarrett
Robert Todd
John Weidler

Directors Absent

Kay Kassube

Others Present

Paul East, CPA
Jean Eggers, Renner
Shirley Flemming, Florence
Dave German, SDSU Water Resources Institute

Staff Present

Lisa Bretsch
Jeanne Fromm
Jay Gilbertson
Angela Guidry
Deb Springman

Administrative Items

Approval of Agenda - **Motion** by Todd, seconded by Feten to approve the agenda as presented. Motion carried unanimously.

Minutes - The Board reviewed the Minutes of the November 15, 2007 meeting. **Motion** by Eggers, seconded by Jarrett to approve the Minutes as presented. Motion carried unanimously.

Financial Reports - The Board reviewed the November 2007 Financial Report. **Motion** by Todd, seconded by Brown to accept the November 2007 Financial Report. Motion carried unanimously. Chairman Dempsey then asked that the report be placed in the District files.

Report of Meetings and Conferences - Director Brown attended the December 17 meeting of the Sioux Falls City Council.

Director Flemming attended the November 15 meeting of the Upper Big Sioux River Watershed Advisory Board in Watertown.

Directors Jarrett and Todd attended the December 6 meeting of the Interlakes Water Quality Committee in Madison.

The Manager commented briefly on the following meetings he attended:

1. November 16 - Brookings. Brookings Chamber of Commerce Legislative Luncheon.

2. November 19 - Watertown. Sioux Valley County Commissioners Association.
3. November 20 - Brookings. Brookings County Commission.
4. November 20 - Madison. Lake County Commission.
5. November 20 - Flandreau. Moody County Commission.
6. November 27 - Sioux Falls. Minnehaha County Commission.
7. November 27 - Canton. Lincoln County Commission.
8. November 27 - Clear Lake. Tekrony animal feeding operation.
9. November 28 - Centerville. Vermillion Basin Water Development District.
10. December 3 - Tyndall. South East County Commissioners Association.
11. December 4 - Pierre. State 319 Nonpoint Source Task Force.
12. December 6 - Huron. James River Water Development District.
13. December 8 - Morton, MN. AREA II Minnesota River Basins Projects Legislative Luncheon.
14. December 10 - Beresford. Hyperion informational meeting.
15. December 11 - Watertown. Codington County Commission.
16. December 11 - Castlewood. Central Big Sioux River Watershed Project easement signing.
17. December 13 - Brookings. South Dakota Lakes and Streams Association.
18. December 18 - Clear Lake. Deuel County Commission.
19. December 18 - Milbank. Grant County Commission.
20. December 18 - Flandreau. Moody County Conservation District Board of Supervisors.
21. December 19 - Centerville. Vermillion Basin Water Development District.

Upcoming Meetings -

1. **January 4 - 7:00 p.m.** - Madison. Lake County Long Range Water Quality Planning Committee.
2. **January 5 - 9:00 a.m.** - Various DDN sites and teleconference. SD Board of Water and Natural Resources.
3. **January 9-11** - Ramkota Convention Center, Pierre. South Dakota Association of Rural Water Systems Annual Technical Convention.
4. **January 9 - 1:00 p.m.** - State Capitol, Pierre. Opening day of the 82nd Session of the South Dakota Legislature. Governor's State of the State address.
5. **January 10 - 9:00 a.m.** - American Legion Hall, Pierre. James River Water Development District Board of Directors meeting.
6. **January 10 - 4:00 p.m.** - Ramkota Convention Center, Pierre. SDARWS Legislative Reception.
7. **January 11 - 8:00 a.m.** - Governors Inn, Pierre. State Conservation Commission.
8. **January 17 - 7:00 p.m.** - Madison. Government Affairs Committee of the Lake County Lakes Associations.
9. **January 18 - 9:00 a.m.** - EDWDD Office, Brookings. January EDWDD Board of Directors meeting.

Payment Requests - The Manager presented the Board with two payment requests.

City of Madison - At the March 2006 meeting, the Board agreed to provide District cost-share assistance of 20% of the costs (up to a maximum of \$6,690) of a preliminary engineering study of the City's wastewater treatment facilities. The City has previously submitted requests totalling \$6,261. The City has submitted a request for reimbursement of \$429, along with the required billing information. **Motion** by Weidler, seconded by Feten to authorize payment of \$429 to the City of Madison as requested. The Manager noted that this would complete the District's obligation to this activity. Motion carried unanimously.

Big Sioux Community Water System - At the July 2007 meeting, the Board agreed to provide District cost-share assistance of 40% of the costs (up to a maximum of \$6,720) of a preliminary engineering study of the Big Sioux Community Water System's water treatment and supply needs. The System has submitted a request for reimbursement of \$6,720, along with the required billing information. **Motion** by Brown, seconded by Feten to authorize payment of \$6,720 to the Big Sioux Community Water System as requested. The Manager noted that this would complete the District's obligation to this activity. Motion carried unanimously, with Director Jarrett abstaining.

Project Assistance Review - The Manager reviewed the status of three projects that had previously received District cost-share assistance. Each project has either been completed and will not be requesting further funds, or has failed to request funds in a timely manner. The Manager requested that the Board rescind the balance of District funds committed to these projects. **Motion** by Eggers, seconded by Jarrett to rescind remaining District cost-share assistance allocated to the following projects:

1. Flandreau Wetland Park, \$1,804;
2. Interlakes Water Quality Committee - Summer 2007 Intern \$3,500; and
3. Big Sioux Water Festival Trunks, \$1,191.

The Manager noted that the total amount reverted with this action would be \$6,495. Motion carried unanimously.

2006 Fiscal Audit Report

Paul East, CPA, reviewed the results of the audit of District finances during 2006. Copies of the final audit report were distributed to Board members. In general, there were no accounting errors or problems. Mr. East indicated that the report had been submitted to the State Department of Legislative Audit and had been accepted. **Motion** by Eggers, seconded by Weidler to accept receipt of the report and its findings, and authorize final payment for completion of the audit. Motion carried unanimously.

SDSU Phosphorus Research

Dave German, South Dakota State University Water Resources Institute, updated the Board on the results of research he and others at the University are working on to better understand the mechanisms by which nutrient phosphorus moves in various agricultural settings. He noted that phosphorus is a critical nutrient for crop growth and development, and one that is readily available to producers with access to livestock waste (manure). The manure represents an essentially free (not counting storage and transport costs) source of nutrients to South Dakota farms, and one that is widely utilized. At the same time, phosphorus that is not utilized by crops and that leaves the application and storage areas is a primary cause of nutrient enrichment in area lakes and streams. This severely degrades the recreational utility of these water bodies. The research being conducted is aimed at better understanding the transport mechanisms of phosphorus when applied to fields.

Mr. German reported on several investigations. In one, laboratory-scale studies that compared phosphorus runoff between the various major soils type in South Dakota was assessed. Building on prior work (some of which was conducted by EDWDD staff Angela Guidry), they compared phosphorus loss during simulatedrain events from 15 different soils types. Also assessed was runoff as a function of the concentration of

phosphorus in each soil type. The net result was that the soils all behaved roughly the same way. Soils can be grouped into two statistically distinct groups; however, there were no obvious soil characteristics which distinguished the groups.

He also reported on some preliminary work that involves monitoring phosphorus content from field-scale plots of ground. Three roughly identical five to six acre fields in the Brookings area have had collection systems installed which collect runoff samples during and after precipitation events. The fields all have the same soil type, which was one of those assessed in the previously described study. Initial test results suggest that the amount of phosphorus lost from these fields is significantly higher than has been predicted based during lab-based studies. Collection of additional data from more events, and from different soil types, will be completed before drawing any conclusions about the differences.

Bacteria Monitoring Project

Jeanne Fromm presented a summary of the Bacteria Monitoring Project the District conducted in concert with the South Dakota Lakes and Streams Association (SDLSA). In August 2006, the Manager and SDLSA developed a proposal to assess the effectiveness and utility of inexpensive tools for bacteria detection in South Dakota waters. The presence and concentration of bacteria in water is the primary tool for determining suitability of use for swimming and other recreational purposes. However, the relative high cost and complex handling requirements have limited collection of this important information. The project was intended to assess the utility of inexpensive testing methods by non-professional volunteers.

Ms. Fromm gave highlights from the project final report, which is in development. In general, the two methods tested gave acceptable results when compared to splits sent to the State Health Laboratory. The two methods also compared well against each other. Small sample sizes were a drawback because results from very low or very high concentrations of bacteria could not be easily assessed. However, as a screening tool, they offer tremendous utility. There were no instances when there was a significant difference between the volunteer test methods and the formal lab analyses.

The methods also proved to be well accepted by the volunteers. After some initial slow starts, the volunteers were able and willing to complete the sample collection and processing without major incident. At the conclusion of the year-long study, most volunteers and their associated lake associations intended to continue the monitoring in the future. Costs initially paid by the project, will now be relinquished to the local entities who intend to apply for various grants and possibly EDWDD funds. Through the Dakota Water Watch program. Ms. Fromm intends to provide technical support to these existing groups and start two additional bacteria sampling groups in area lakes in 2008.

Project Updates

Watershed Assessment Projects - Deb Springman reported on the work that she is doing on the Lake Campbell/Battle Creek Watershed Assessment. Summer field season sampling is complete and she is developing a database of animal feeding operations. She has started to make contacts with feedlot operators and will be visiting them over the winter months.

The Manager requested Board authorization to expend funds previously committed to this project to purchase computer software (ArcGIS Spatial Analyst) for use by Ms. Springman in her assessment of the condition of

the watershed. The software would cost approximately \$2,040 dollars, with the funds coming from a \$3,000 allocation made in April 2007. **Motion** by Feten, seconded by Weidler to authorize the purchase of the requested software using the funds allocated for the project. Motion carried unanimously.

Central Big Sioux River Watershed Project – Angela Guidry reported on her efforts. She continues to meet with producers in the watershed, promoting program cost-share activities. She met with the Brookings, Codington and Moody Conservation District Boards to provide project updates. There was a closing on an easement in Hamlin County (Jerry Kiihl near Castlewood) on December 11th. She is also working with staff from the City of Sioux Falls to redirect some of the funds set aside for easements toward animal waste systems.

The Manager briefed the Board on a proposal to have the District involved in the monitoring of a wetland restoration/mitigation site along Slip Up Creek in Minnehaha County. The mitigation work was to be done in response to the loss of wetland habitat due to commercial development in Sioux Falls. The parties in the mitigation are aware of the District's efforts toward addressing impaired waters. Those parties have been working with the Manager to find a site that might both address the needed mitigation and also address a known impaired water body in the Central Big Sioux River watershed. He noted that the details of the District's involvement had not been fully resolved, but that it was his understanding that it would require the District to conduct two site inspections of the mitigation site each year for a set period of time. The length of time had not yet been established, but all parties involved believed this to be something well under ten years. The target stream, Slip Up Creek, has been identified as needing remediation to address water quality impairments in the Big Sioux River.

Cooperating in this effort, could leverage a considerable resources toward water quality improvements in a watershed we are seeking to improve. The mitigation work is going to take place somewhere, and the current plan, with modest District assistance, would make it happen in an area where assistance is required. No formal decision is necessary at this time. Only after the District's role is clearly defined will Board cooperation be requested.

It was the consensus of the Board that it would be in the best interest of the Central Big Sioux River Watershed Project to explore participation in this effort.

Volunteer Monitoring - Jeanne Fromm and the Manager briefly reviewed a 319 Information and Education grant application to fund a portion of the District's volunteer water quality monitoring efforts for 2008 and 2009. Ms. Fromm plans to make a formal presentation on the proposal in January, but the Manager asked the Board to authorize acceptance of the grant (\$28,248) and to authorize District participation in the activity. **Motion** by Todd, seconded by Feten to enter into an agreement with the South Dakota 319 Information and Education Program for the Dakota Water Watch Project as presented. Motion carried unanimously.

Adjournment

There being no further District business, Chairman Dempsey declared the meeting adjourned at 4:15 p.m.

Doug Feten, Secretary

East Dakota Water Development District
Custom Summary Report
November 2007

	Nov 07
5700 · Lake Campbell Assessment	
5710 · Water Quality Analysis LCAP	36.12
5720 · Travel LCAP	15.82
Total 5700 · Lake Campbell Assessment	51.94
6050 · Vehicle Expense	
6052 · Lease Expense	321.59
6053 · Fuel/Lubricants	29.68
6054 · Maintenance/Cleaning	16.49
Total 6050 · Vehicle Expense	367.76
6070 · BOD Travel & Ent	
6071 · BOD Miscell. Travel	405.00
6072 · BOD Travel	677.28
Total 6070 · BOD Travel & Ent	1,082.28
6080 · Capital Outlay Items	
6086 · Software	100.78
Total 6080 · Capital Outlay Items	100.78
6220 · Dues and Subscriptions	50.00
6240 · Equipment Rental	
6241 · Copier Lease/Rental	182.51
Total 6240 · Equipment Rental	182.51
6530 · Miscellaneous	67.47
6540 · Maintenance	
6541 · Office Maintenance	275.00
Total 6540 · Maintenance	275.00
6550 · Supplies	
6551 · Office Supplies	616.35
6552 · Garage Supplies	-47.07
Total 6550 · Supplies	569.28
6560 · Payroll Expenses	
6163 · Payroll Taxes	1,420.52
6561 · Retirement	162.26
6562 · Health Insurance	2,444.46
6564 · Retirement Admin Co. 2	198.84
6560 · Payroll Expenses - Other	6,418.64
Total 6560 · Payroll Expenses	10,644.72
6565 · Payroll Expenses for Board	1,125.00
6566 · Payroll Expenses Technical	
6570 · Retirement Technical Asst. - Co	521.71
6571 · Technical Asst. Employ. 2 Co.	198.84
6566 · Payroll Expenses Technical - Other	12,086.10
Total 6566 · Payroll Expenses Technical	12,806.65
6620 · Printing and Reproduction	3.68
6640 · Professional Fees	
6645 · Temporary Service	42.56
6640 · Professional Fees - Other	245.00
Total 6640 · Professional Fees	287.56
6690 · Rent	
6691 · Office Rent	1,500.00
Total 6690 · Rent	1,500.00
6880 · Telephone	
6881 · Cell Phone	95.52
6882 · Office Phone	287.08
Total 6880 · Telephone	382.60
6900 · Travel & Ent	466.98

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November 2007**

	Nov 07
6940 · Utilities	
6970 · Trash Removal	51.30
Total 6940 · Utilities	51.30
6980 · Water Quality Expenses	
6982 · WQ Supplies	37.25
Total 6980 · Water Quality Expenses	37.25
Total Expense	181,515.62
Net Ordinary Income	-42,511.80
Other Income/Expense	
Other Expense	
8010 · Other Expenses	20.00
8050 · Project Expenditures	
8064 · USGS Gaging 2007 06	12,475.00
Total 8050 · Project Expenditures	12,475.00
Total Other Expense	12,495.00
Net Other Income	-12,495.00
Net Income	-55,006.80