



East Dakota Water Development District
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MINUTES
December 15, 2016

The Board of Directors of the East Dakota Water Development District (EDWDD) held a regular meeting on December 15, 2016, at the EDWDD Office, 132B Airport Drive, Brookings. Chairman Jarrett called the meeting to order at 1:05 p.m. The following persons attended:

Directors Present

Mark Anderson
Lois Brown
Mary Ellen Connelly
Gary Duffy
Martin Jarrett
Kay Kassube
John Moes
Jerry Soholt
Janelle Weatherly

Others Present

Guanghui Hua, SDSU Civil & Environmental Engineering
Dana Loseke, Friends of the Big Sioux River
Jesse Wilkins, SD Dept. Environment & Natural Resources

Staff Present

Kevin Christenson
Jay Gilbertson
Jeremy Hinke
Deb Springman

Directors Absent

- none -

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Administrative Items

Approval of Agenda

Motion by Soholt, seconded by Moes to approve the agenda as presented. Motion carried unanimously.

Minutes

Motion by Duffy, seconded by Weatherly to approve the Minutes as presented. Motion carried unanimously.

Financial Reports - The Board reviewed the November 2016 Financial Report.

Motion by Connelly, seconded by Moes to accept the November 2016 Financial Report. Motion carried unanimously. Chairman Jarrett then asked that the report be placed in the District files.

Report of Meetings and Conferences - Director Connelly attended the Friends of the Big Sioux River meeting in Sioux Falls on December 7th.

Director Moes reported on the December 14th meeting of the Lake Pelican Water Project District in Watertown.

The Manager commented briefly on the following meetings he attended:

1. November 22 - Pierre. River Basin Natural Resource Districts Oversight Advisory Task Force.
2. December 1 - Baltic. Low-head dam/bank stabilization discussion.
3. December 5 - Brookings. South Dakota State University College of ABS water quality discussion.
4. December 5 - Brookings. Brookings County Planning & Zoning Board.
5. December 7 - Brookings. SD Board of Water and Natural Resources.
6. December 8 - Huron. James River Water Development District Board Meeting.
7. December 12 - Sioux Falls. Ag United for South Dakota Annual Luncheon.
8. December 13 - Pierre. SD Non-Point Source Task Force.
9. December 14 - Brookings. SD Association of Conservation District Board of Directors.

The Manager noted that at the December 5th Brookings County Planning & Zoning Commission meeting, an applicant was granted a conditional use permit for Class A concentrated animal feeding operation. The applicant also received a waiver of the requirement that proposed facility be at least ½ mile from a private well. Brookings County P&Z staff had requested the Manager review the situation and he had stated at the hearing that the well appeared to have been abandoned for some time.

Motion by Soholt, seconded by Brown to have the Manager work with Brookings County P&Z staff to see that the well in question is either properly restored or sealed in accordance with State requirements. Motion carried unanimously.

Upcoming Meetings -

1. **December 20 - 10:00 a.m.** - Watertown. Punished Woman Lake weed management.
2. **December 20 - 1:00 p.m.** - Flandreau. Moody County Conservation District
3. **December 22 - 9:00 a.m.** - City Environmental Office, Sioux Falls. Big Sioux River watershed Project Steering Committee.
4. **January 4 - 9:00 a.m.** - Huron. James River Water Development District Board of Directors.
5. **January 5 - 1:00 p.m.** - various DDN sites. SD Board of Water and Natural Resources.
6. **January 10-12** - Ramkota Convention Centre, Pierre. SD Association of Rural Water Systems Annual Technical Conference.
7. **January 10 - 12 noon** - Pierre. Opening of the 2017 SD Legislative Session.
8. **January 11 - 7:00 a.m.** - State Capitol Building, Pierre. WDD Legislative Welcome.

Motion by Weatherly, seconded by Kassube to hold the January 2017 meeting at the District office in Brookings on January 19th at 9:00 a.m. Motion carried unanimously.

9. **January 19 - 9:00 a.m.** - EDWDD Office, Brookings. EDWDD January Board of Directors Meeting.

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Payment Requests - The Manager reported that there were no payment requests from District-sponsored projects requiring Board action.

Project Assistance Review - The Manager reviewed the status of several projects that had previously received District cost-share assistance. Each project had 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 (\$22,854 in total) previously committed to the following projects:

<u>Award Date</u>	<u>Project</u>	<u>Award Amount</u>	<u>Unused Balance</u>
Jun 2011	SDSU Ag Drainage Hydrology Impacts	\$ 5,000	\$ 93
Jun 2011	CBSRWP Big Sioux River Survey II	\$ 11,555	\$ 11,555
Apr 2015	SDSM&T Bacteria Toxicity/Pathogenicity I	\$ 25,000	\$ 9,768
Aug 2016	2016 Mayor's Big Sioux River Summit	\$ 2,000	\$ 1,438
			<u>\$ 22,854</u>

Motion by Duffy, seconded by Kassube to rescind the unused balances of the District cost-share assistance grants (\$22,854) as requested. Motion carried unanimously.

Policy on University Indirect Cost Recovery - The Manager reviewed the discussion held at the November 2016 Board meeting regarding university indirect costs, and presented a DRAFT District policy (*italics* below) on indirect costs recovery when dealing with SD Board of regents institutions:

The District Board recognizes that university-based research involves not only the direct costs involved in the individual investigation(s), but also the indirect collective costs associated with facilities and administration at the institution. It is further recognized that each institution develops its own federally-recognized indirect costs recovery rate as appropriate. At the same time, District project assistance resources are limited, and derived largely from local/in-state property tax revenue.

Therefore, it shall be the policy of the District to consider providing no more than sixty percent (60%) of a federally-approved indirect costs recovery rate when evaluating project assistance requests from institutions under the control of the South Dakota Board of Regents.

Motion by Moes, seconded by Weatherly to adopt the Policy on Indirect Cost Recovery as presented. Motion carried unanimously.

Stormwater Runoff Treatment Study Update

Dr. Guanghui Hua, SDSU Department of Civil & Environmental Engineering, provided an update on the District supported project entitled, "Development of Mixed Media Filtration for Stormwater Runoff Treatment in South Dakota." At the March 2015 meeting, the Board agreed to provide a project assistance grant to Dr. Hua to explore options for creating small-scale filtration basins into which municipal stormwater could be directed with a goal of reducing the sediment, nutrient and/or bacteria

load they are carrying before they enter a river/stream. The project involves laboratory tests to assess the applicability of various media under various conditions. It also includes a field test/demonstration of the project results. Primary funding for this effort comes from a grant from the Mountain Plains Consortium (MPC), a competitively selected university program sponsored by the U.S. Department of Transportation through its Research and Innovative Technology Administration. The James River Water Development District has also provided support to the project.

Eastern South Dakota Lakes Assessment Project

Jesse Wilkins, South Dakota Department of the Environment and Natural Resources (DENR) - Watershed Protection Program, briefed the Board on a project to gather information on the water quality on four (4) eastern South Dakota lakes. He noted that while DENR had a need for such data, and the financial resources to support data collection, they do not have the staff to do the work themselves. In that the District has staff with the requisite experience and skills, they have proposed a cooperative, entitled the, " Eastern South Dakota Lakes Assessment Project (Project)." The goal of the Project is to collect water quality data from 4 lakes and their tributaries, where applicable, for the purpose of developing total maximum daily loads (TMDLs) for four lakes currently considered impaired. Twin Lakes, Lake Carthage, Lake Thompson and Bullhead Lake are included on the South Dakota 303(d) list of impaired waters.

Data collection activities would be carried out by District staff and would occur over the span of two field sampling seasons (2017 & 2018). The project is comprised of 3 objectives - lake sampling, tributary sampling, and quality assurance/quality control (QA/QC). Lake samples are collected to assess the current status of the lake, while tributary samples are collected to assess how the watershed influences water chemistry within the lake. Data collection activities would adhere to state protocols. Data will be collected for the purpose of setting up, calibrating, and running the BATHTUB model, a hydraulic mass-balance model that simulates how inputs from tributaries impact pollutant concentrations within a reservoir. Data needs include sample data from within the reservoir, tributary sample data from upstream of the lake (input), and tributary sample data and flow data downstream of the lake (output). Water quantity data will be obtained from the Elevation Derivatives for National Applications model (EDNA) or from existing flow data. Once the BATHTUB model is set up, various scenarios may be simulated to determine the magnitude of pollutant reduction(s) required in the tributary to meet water quality standards in the lake.

Total project costs for the effort are projected at \$ 91,800, of which \$80,000 will be provided through a US EPA 604(b) Program grant to the District. The balance (\$15,000) will be provided by the District, primarily as staff time for samples run within District boundaries.

The Manager noted that Mr. Wilkins' presentation was intended to be informational only, but that he would be bringing a formal request forward at the January 2017 Board meeting.

District Updates

2017 Legislative Session Preview - The Manager reviewed likely subjects to be considered during the upcoming 2017 Session of the South Dakota State Legislature. The Session gets underway on January

10th, 2017, with Governor Daugaard's State of the State Address. The Manager noted that he would be in Pierre for the opening of the 2017 Legislative Session, and to attend the South Dakota Association of Rural water Systems Annual technical Conference, during the week of January 10th thru 13th, and then as necessary during the balance of the session in his capacity as the District's lobbyist.

Riparian buffer legislation - Although Senate Bill 136 received widespread support among legislators during the 2016 Session, it was vetoed by the Governor. A "new & improved" version of the legislation has been developed, which is expected to have the full-throated support of the Executive Branch this time around. He indicated an intent to once again offer whatever support would be necessary to get this bill passed.

River Basin Natural Resource District Oversight Advisory Task Force - The Task Force was charged in 2015 with formalizing the boundaries of the RBNRDs, establishing a governance structure, and developing a pilot project in the northeast. The Task Force has met seven times over the past two interims, and has drafted bills to address the first two issues. There are no plans for any sort of pilot project at this time. The lack of action/progress by the Task Force has crystallized a fair amount of general opposition, coming from a range of entities (SD Corn, SD Farm Bureau, SD Soybeans, SD Municipal League). Baring a major change, the Manager indicated that he too would be advocating for the demise of the Task Force and opposing the proposed legislation.

2017 Water Quality Monitoring - The Manager reviewed planned water quality monitoring efforts for 2017. Surface water samples would continue to be collected at the sites monitored in 2016, with two new sites being added in the Split Rock Creek watershed. Nitrate sampling in 2016 suggests that this tributary has a significant impact on the Big Sioux River.

The Manager reviewed a preliminary assessment of data from the Statewide Ground Water Quality Monitoring Network (Network) maintained by the SD DENR - Geological Survey Program (<http://www.sdgs.usd.edu/currentprojects/sgwqmn.aspx>). Established in 1989, the Network consists of a series of paired wells installed in important shallow aquifers across the state, and is intended to provide a tool for assessing long-term trends. The wells are sampled periodically (once every other year at present) for a range of inorganic and organic compounds, including some pesticides.

Analyses of the nitrate concentrations found in Network wells in the Big Sioux aquifer have shown an upward trend over the period of record for a majority of the sites. The Manager is working with Geological Survey Program staff to develop a sampling program for the Network wells located within the District.

Public Outreach Efforts - Jeremy Hinke reviewed efforts to make District water quality data more readily available. He noted that between the District, SD DENR and the City of Sioux Falls, there is a tremendous amount of water quality data in existence. However, much/most of it is scattered between various files, and often in differing formats. As a consequence, data requests often take a long time to respond to.

Several years back, Deb Springman had put together a website on the Big Sioux River that presented water quality data in both a graphic and tabular form (<http://www.eastdakota.org/bsrwatershed/>). Using

her effort as a framework, Mr. Hinke is working to put all of our data into a standard format that could be accessed by Ms. Springman's program. Once District data is so organized, he will work to get comparable data sets from other sources and integrate them into the system. The ultimate goal would be to allow persons interested in the data to access it through our website without having to work directly with District staff.

Executive Session

Motion by Moes, seconded by Brown to go into executive session at 4:00 p.m. to discuss personnel issues with the Manager. Motion carried unanimously.

Chairman Jarrett declared the executive session closed at 4:10 p.m.

Adjournment

There being no further District business, Chairman Jarrett declared the meeting adjourned at 4:10 p.m.

John Moes, Secretary

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