



AGENDA

Missouri Soil and Water Districts Commission
M. W. Boudreaux Memorial Visitor Center
Mark Twain Lake
21629 Highway J
Perry, MO
October 14, 2015
10:30 a.m.

A. CALL TO ORDER

B. MINUTES OF THE LAST MEETING

C. DEPARTMENT OF NATURAL RESOURCES

D. SOIL AND WATER CONSERVATION PROGRAM DIRECTOR'S COMMENTS

1. FY16 Cost-Share/AgNPS Fund Status
2. FY17 Cost-Share Needs Assessment
3. Health Insurance Update
4. Soil Health Assessment Center Update
5. Our Missouri Waters Update
6. State Water Plan Update
7. Rulemaking Update

E. REQUEST

(If a supervisor request is received in advance of meeting, it may be presented to the commission at that meeting.)

1. Supervisor Appointment Requests
 - a. Pulaski SWCD
 - b. Dunklin SWCD

F. APPEALS

1. Clinton County Landowner Appeal of Board's Request for a Partial Repayment on a DSL-05 Diversion Practice

G. NEW BUSINESS

H. REPORTS

1. University of Missouri
2. Department of Conservation
3. Department of Agriculture
4. Missouri Association of Soil and Water Conservation Districts
5. Natural Resources Conservation Service

I. PUBLIC COMMENTS

J. SUGGESTED DATE(S) OF NEXT MEETINGS

December 1, 2015, Tan-Tar-A, Osage Beach

K. ADJOURNMENT

MISSOURI SOIL & WATER DISTRICTS COMMISSION

October 14, 2015

Page 2

2:00 – 4:00 p.m. Proposed Tour of Conservation Practices

Those wishing to address the commission on any of the above issues need to contact a program staff member, Theresa Mueller or sign up on the comment card at the commission meeting.

If you have any questions regarding this meeting, special accommodation needs, or would like a copy of any material provided at the commission meeting, please contact Theresa Mueller at 573-526-4662.

Soil & Water Districts Commission may go into closed session at this meeting if such action is approved by a majority vote of the commission members who constitute a quorum to discuss legal, confidential, or privileged matters under § 610.021(1), RSMo 2000; personnel actions under §610.021(3); personnel records or applications under §610.021(13), records under § 610.021(14), or audit issues under § 610.021(17), which are otherwise protected from disclosure by law.

Master Fund Status Summary

District	Allocated	Obligated	%Obligated	# Contracts	Contract Payment	% Contract Payment	# Contract Payments	Pending
FY: 2016 Fund Code:R Project:AWM - ANIMAL WASTE MANAGEMENT	\$2,045,000.00	\$771,659.77	37.73%	43	\$68,042.35	3.33%	4	\$194,636.22
FY: 2016 Fund Code:R Project:CCC - CHARITON PILOT COVER CROP	\$35,000.00	\$12,210.00	34.89%	10	\$0.00	0.00%	0	\$10,185.00
FY: 2016 Fund Code:R Project:GM - GRAZING MANAGEMENT	\$4,980,393.56	\$2,135,330.61	42.87%	716	\$335,176.84	6.73%	105	\$471,144.70
FY: 2016 Fund Code:R Project:IM - IRRIGATION MANAGEMENT	\$1,297,801.94	\$608,466.76	46.88%	112	\$187,951.19	14.48%	39	\$101,010.12
FY: 2016 Fund Code:R Project:NP - NUTRIENT & PEST MANAGEMENT	\$1,124,745.00	\$638,268.70	56.75%	743	\$0.00	0.00%	0	-\$2,864.00
FY: 2016 Fund Code:R Project:SA - SENSITIVE AREAS	\$2,987,131.20	\$892,292.35	29.87%	200	\$110,115.50	3.69%	32	\$204,664.17
FY: 2016 Fund Code:R Project:SGE - SHEET AND RILL / GULLY EROSION	\$22,065,749.34	\$13,937,150.27	63.16%	3312	\$2,887,796.68	13.09%	415	\$1,408,341.96
FY: 2016 Fund Code:R Project:WE - WOODLAND EROSION	\$1,597,522.72	\$397,798.16	24.90%	146	\$36,214.92	2.27%	12	\$36,570.21
Subtotal for R	\$36,133,343.76	\$19,393,176.62	53.67%	5282	\$3,625,297.48	10.03%	607	\$2,423,688.38
FY: 2016 Fund Code:SN Project:BDSP-31 - BUFFER SINKHOLE IMP	\$24,300.00	\$0.00	0.00%	0	\$0.00	0.00%	0	\$0.00
FY: 2016 Fund Code:SN Project:SN093 - HURRICANE CREEK AND LITTLE WHITEWATER	\$6,066.52	\$6,066.52	100.00%	1	\$6,066.52	100.00%	1	\$0.00
FY: 2016 Fund Code:SN Project:SN095 - UPPER BIG CREEK								

Master Fund Status Summary

<u>District</u>	<u>Allocated</u>	<u>Obligated</u>	<u>%Obligated</u>	<u># Contracts</u>	<u>Contract Payment</u>	<u>% Contract Payment</u>	<u># Contract Payments</u>	<u>Pending</u>
	\$2,809.22	\$2,809.22	100.00%	2	\$0.00	0.00%	0	\$0.00
FY: 2016	Fund Code:SN Project:SN096 - CROWLEY'S RIDGE							
	\$12,308.28	\$6,322.00	51.36%	1	\$0.00	0.00%	0	\$0.00
FY: 2016	Fund Code:SN Project:SN098 - WARM FORK OF SPRING RIVER							
	\$40,000.00	\$14,829.65	37.07%	4	\$0.00	0.00%	0	-\$5,288.22
FY: 2016	Fund Code:SN Project:SN099 - HEATHS CREEK							
	\$14,912.00	\$14,912.00	100.00%	1	\$14,912.00	100.00%	1	\$0.00
FY: 2016	Fund Code:SN Project:SN102 - SOUTH WYACONDA							
	\$10,000.00	\$10,000.00	100.00%	1	\$10,000.00	100.00%	1	\$0.00
Subtotal for SN	\$110,396.02	\$54,939.39	49.77%	10	\$30,978.52	28.06%	3	-\$5,288.22

Master Fund Status Summary

Master Fund Status Summary (2016)

Subtotal for R	\$36,133,343.76	\$19,393,176.62	53.67%	5282	\$3,625,297.48	10.03%	607	\$2,423,688.38
Subtotal for SN	\$110,396.02	\$54,939.39	49.77%	10	\$30,978.52	28.06%	3	-\$5,288.22
Report Totals	\$36,243,739.78	\$19,448,116.01	53.66%	5292	\$3,656,276.00	10.09%	610	\$2,418,400.16



Jeremiah W. (Jay) Nixon, Governor

Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

dnr.mo.gov

**MEMORANDUM
2016-009**

Date: October 1, 2015

To: All Soil and Water Conservation Districts

From: *for* Colleen Meredith, Director *JP*
Soil and Water Conservation Program

SUBJECT: Fiscal Year 2017 (FY17) Needs Assessment Process

To assist the State Soil and Water Districts Commission (Commission) in allocating cost-share funds for FY17 and provide budget projections for future fiscal years, it is time for districts to update their Needs Assessment. To complete the Needs Assessment Narrative, select the fillable form named FY17 Needs Assessment Narrative located on the SWCD Intranet site: <http://swcd.mo.gov/internal/needsassessment.htm>. The district will need to complete both the narrative and enter the funding request in the Missouri Soil and Water Information Management System (MoSWIMS). It is recommended districts utilize all five years for planning purposes but require that two years minimum be completed.

When completing the needs assessment, please remember the Commission approved the N340 Cover Crop practice as a statewide practice starting in FY 16 and added to the Sheet Rill and Gully Resource Concern. Funding request for the cover crop practice will have to be included in the Sheet Rill and Gully Resource concern.

The board signed narrative and information entered in MoSWIMS must be completed by **November 13, 2015**. The signed narrative needs to be submitted via e-mail to Tammy Cody (Tammy.Cody@dnr.mo.gov).

If you have any questions or need assistance completing the narrative form or entering the data in MoSWIMS, please contact your district coordinator. Thank you.

CM:jpt



Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

MEMORANDUM 2016-010

Date: October 1, 2015

To: All Soil and Water Conservation Districts

From: *for* Colleen Meredith, Director *JP*
Soil and Water Conservation Program

Subject: **2016 Health Insurance**

For calendar year 2016, the Soil and Water Districts Commission will continue to provide health insurance grant allocations to soil and water conservation districts (SWCDs) for select plans offered through Missouri Consolidated Health Care Plan (MCHCP). Soil and Water Conservation district boards with employees that are employed for at least 1560 hours from eligible funds, may participate in either the MCHCP PPO600 or the PPO1000 plan.

The cost of the PPO600 plan will remain the same at \$646.63 per month for employee only coverage. The program will continue to provide \$576.63 per employee per month or \$6919.56 per year to the district board in semiannual allotments. District staff electing to participate in the PPO600 plan will be asked to pay a \$70.00 per month premium copay.

The cost of the PPO1000 plan also will remain the same at \$575.50 per month for employee only coverage. The program will continue to provide \$534.50 per employee per month or \$6,414.00 per year to the district board in semiannual allotments. District staff electing to participate in the PPO1000 plan will be asked to pay a \$41.00 per month premium copay.

As has been stated in previous years, management from MCHCP has strongly cautioned the program and asked us to inform the district supervisors to refrain from covering the cost of the district employee's portion of the monthly premium due to potential increased utilization of the health insurance. Such an approach will serve to drive up the cost of health care for all the districts.

Open enrollment for SWCD employees is October 5, 2015 through November 6, 2015. Please remember if your district has employees that choose not to participate in the MCHCP health insurance plans offered, they will still need to complete the open enrollment forms and indicate that they do not wish to participate. For specific information regarding the PPO600 and the PPO1000 plans, please refer to the MCHCP website at mchcp.org.

All SWCDs
October 1, 2015
Page Two

If you have any questions, please contact Jim Boschert at the Soil and Water Conservation Program, P.O. Box 176, Jefferson City MO 65102-0176 or by phone at 573-522-3320. Thank you.

CM:cwt

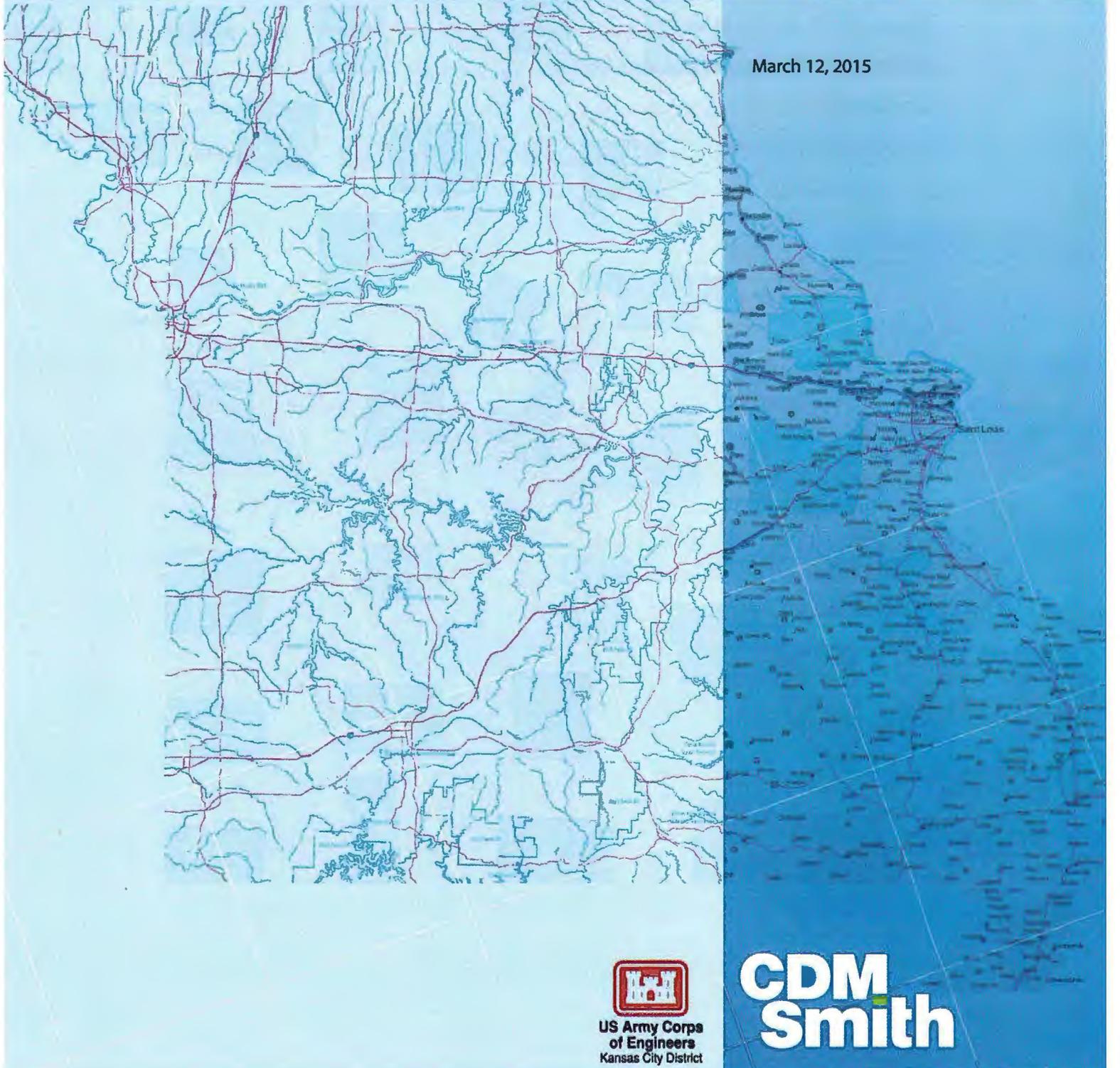
Missouri Water Plan

WORKPLAN OUTLINE



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

March 12, 2015



**CDM
Smith**



Contents

Section 1 Task Options.....	1
Section 2 Tasks and Timeline	4
Section 3 Task Descriptions and Assumptions.....	7
Section 4 Costs	14
Section 5 Qualifications	15

Section 1 Task Options



The Missouri Department of Natural Resources (MDNR) is charged with preparing, maintaining and implementing the Missouri State Water Plan per state statute 640.415 RSMo. Missouri has been successfully implementing this plan through studies and projects focused primarily on meeting the water supply challenges of the state. Missouri's water resources are vital to the health and economy of the state. As such, it is important to maintain a current, comprehensive and contemporary plan for the management of the Missouri's water resources.

Looking at regions of the state, key elements for Missouri's next iteration of the State Water Plan involve analyzing water demands and defining water supply and availability. Apparent gaps between demand and supply will be determined and priorities for infrastructure funding will be defined. Effective public outreach and stakeholder involvement are integral to the State Water Plan process to garner public input and support as well as constituent buy-in for future infrastructure funding. Public participation is required per state statute 640.415 RSMo during development and revision of the State Water Plan.

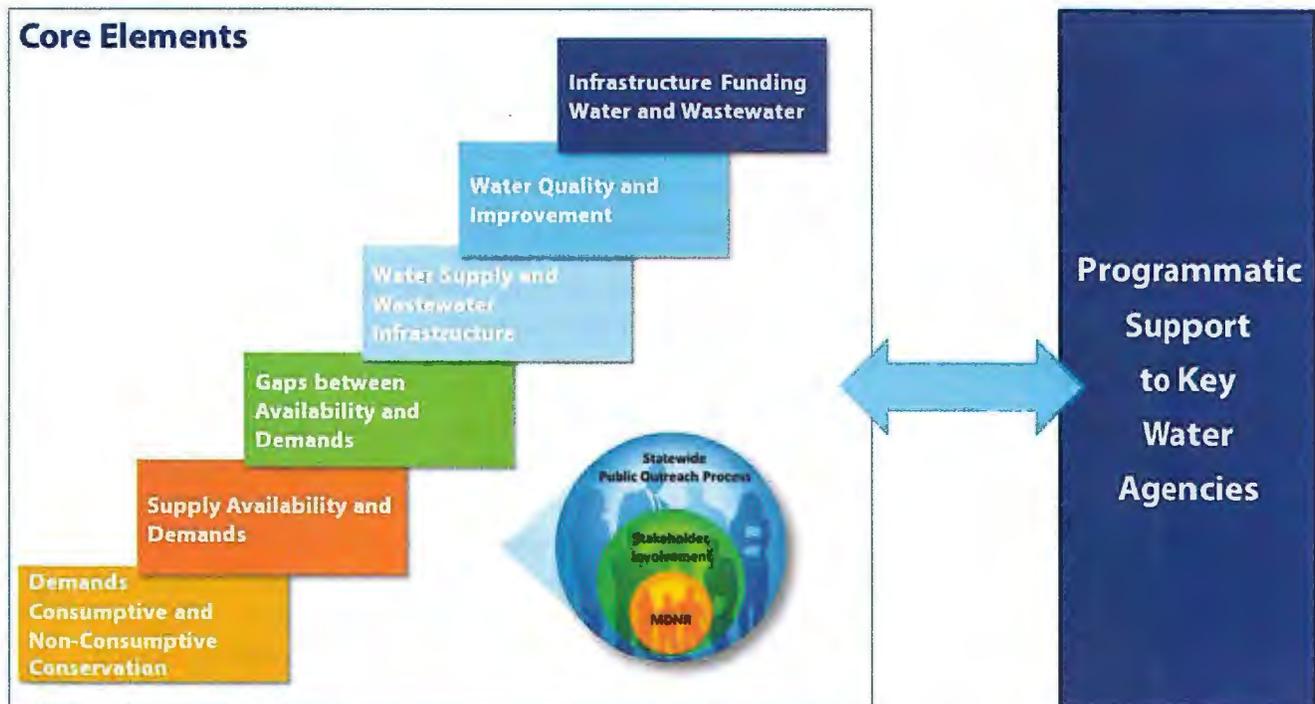


Figure 1. Core Elements of a State Water Plan

Likewise, several state agencies are appointed through the Inter-Agency Task Force (IATF) as established in state statute 640.430 RSMo, to advise the MDNR during the development and revision of the State Water Plan.

The update to the State Water Plan will set the vision for the water resources management of the state that will benefit present and future generations. It has been more than a decade since the last edition of the plan. This outline includes three options for consideration that reflect varying levels of effort and engagement that will address the core elements while meeting state regulations or state requirements. Each option builds upon the previous, allowing flexibility in the process to meet the immediate as well as future needs. The options offered reflect an 18-, 24-, and 36-month schedule for completion. A final report will be provided at the end of 18 months including infrastructure, policy and future study recommendations.

Option 1 (18 months). A team of MDNR staff and CDM Smith will be working closely with stakeholders to complete the State Water Plan update within 18 months. The plan will leverage available data and studies including the northwest and southwest Missouri demand and supply availability data and findings as well as the surface water yield Reservoir Operation Study Computer Program (RESOP) studies. Public outreach and education will leverage the ongoing watershed planning efforts of *Our Missouri Waters (OMW)* by reaching out to basin stakeholders. Citizens of Missouri have expertise on issues related to their local water resources. Involving this expertise during the planning process is essential for sound water policy to meet the needs for future generations. The stakeholder engagement in this process occurs at the earliest phases to ensure that citizen-experts' concerns, ideas for solutions and priorities are incorporated throughout the planning process.

There is no additional groundwater or hydrologic and hydraulic modeling anticipated in this option. Nor will there be decision support models, tools and respective training provided in this 18-month period. CDM Smith will be in close coordination with MDNR staff in identifying data and studies in support of a rapid planning process to provide agreed upon water resource management recommendations.

Pro: Comprehensive planning including core elements, completed quickly with available data and studies, methods, approaches and recommendations vetted with MDNR staff and best professional judgment, and engagement with partner agencies for input and buy in.

Option 2 (24 months). A team of MDNR staff and CDM Smith will be working closely with stakeholders to complete the State Water Plan update within 24 months. The plan will build upon the available data, studies and projects from across the state. An evaluation of available data will be conducted in conjunction with *OMW* to determine gaps that will lend to identifying data needs which may require data collection, surveys and possible modeling to support the plan. Stakeholder involvement in forming the technical work groups will be incorporated into the process to review methods, approaches and recommendations. In addition to the education and outreach achieved by *OMW* that is targeted at a basin scale, the plan will educate and engage residents and business statewide.

Pro: Inclusive of all components of Option 1. Additional elements include stream data, vetted with stakeholder-based technical work groups, and greater public education and input.

Option 3 (36 months). A team of MDNR staff and CDM Smith will be working closely with stakeholders to complete the State Water Plan update within 36 months. The plan will employ contemporary tools such as a decision support model in identifying priorities, phasing and funding. These decision support tools such as IWR-MAIN and STELLA will remain with MDNR and necessary training will be provided for future decision

making. The three-year process will kickoff with public outreach regarding the current plan and future plan needs by region. Stakeholder-based technical work groups will work on the core elements that support methods, approaches, findings and recommendations. Decision support models will assist in final recommendations and costs. Draft findings will be vetted through a series of statewide meetings.

Pro: Inclusive of all components of Options 1 and 2. Additional components include employment of tools applied for topics such as minimum/instream flows, fits the timeline of the *OMW* in its delivery, educates the public/constituents for support of future infrastructure needs.

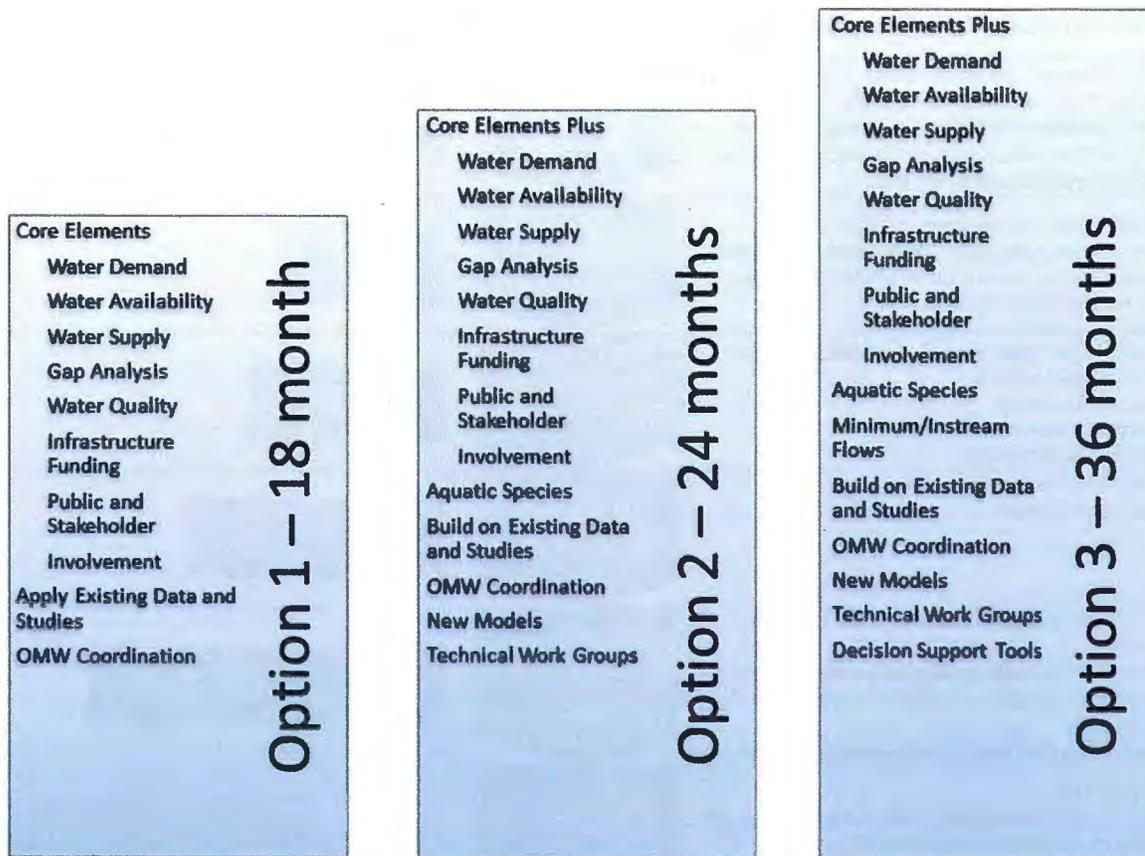
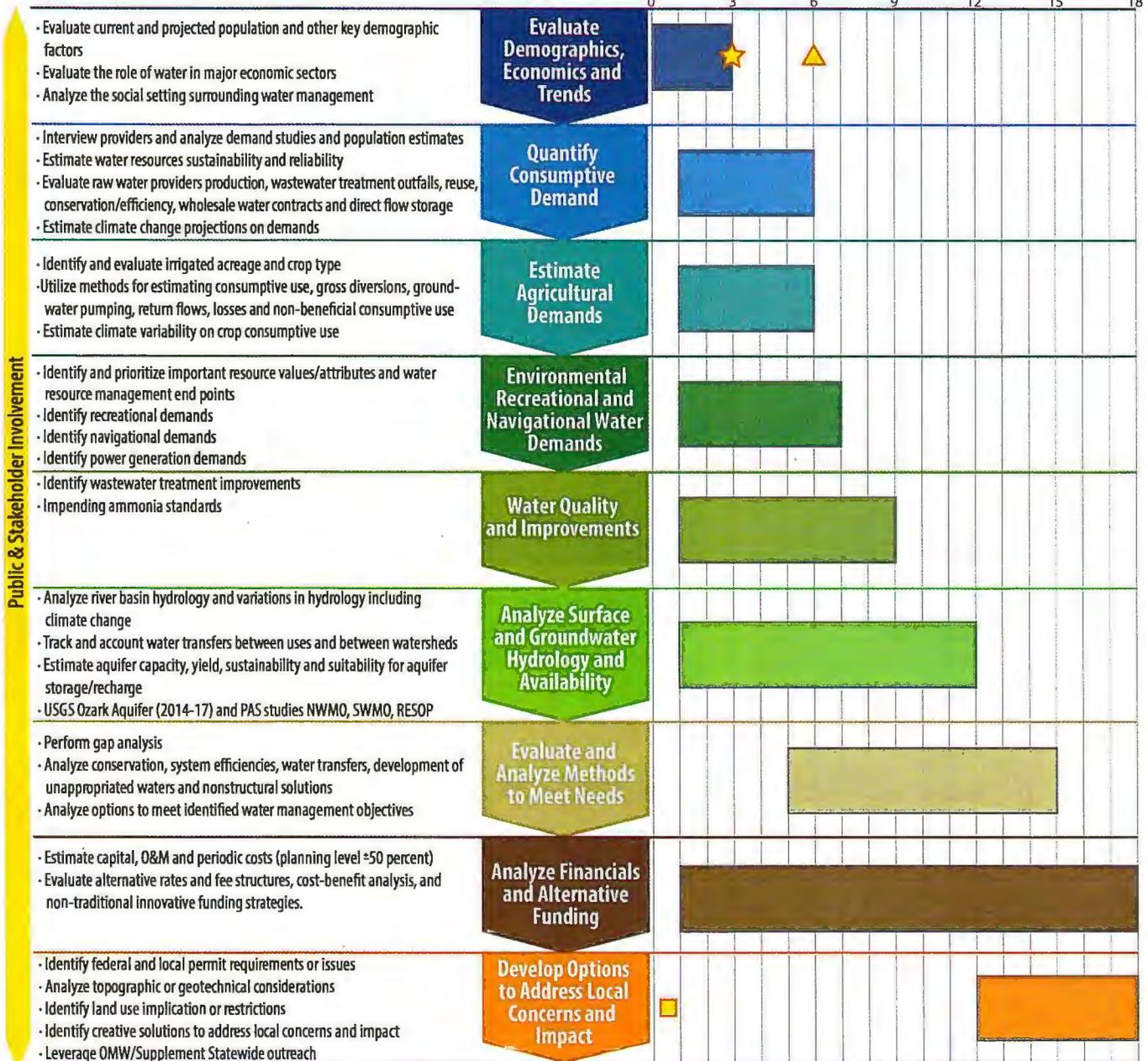


Figure 2. Summary of Each Major Task for the 3 Options

Section 2 Tasks and Timeline



TASKS AND TIMELINE: OPTION 1

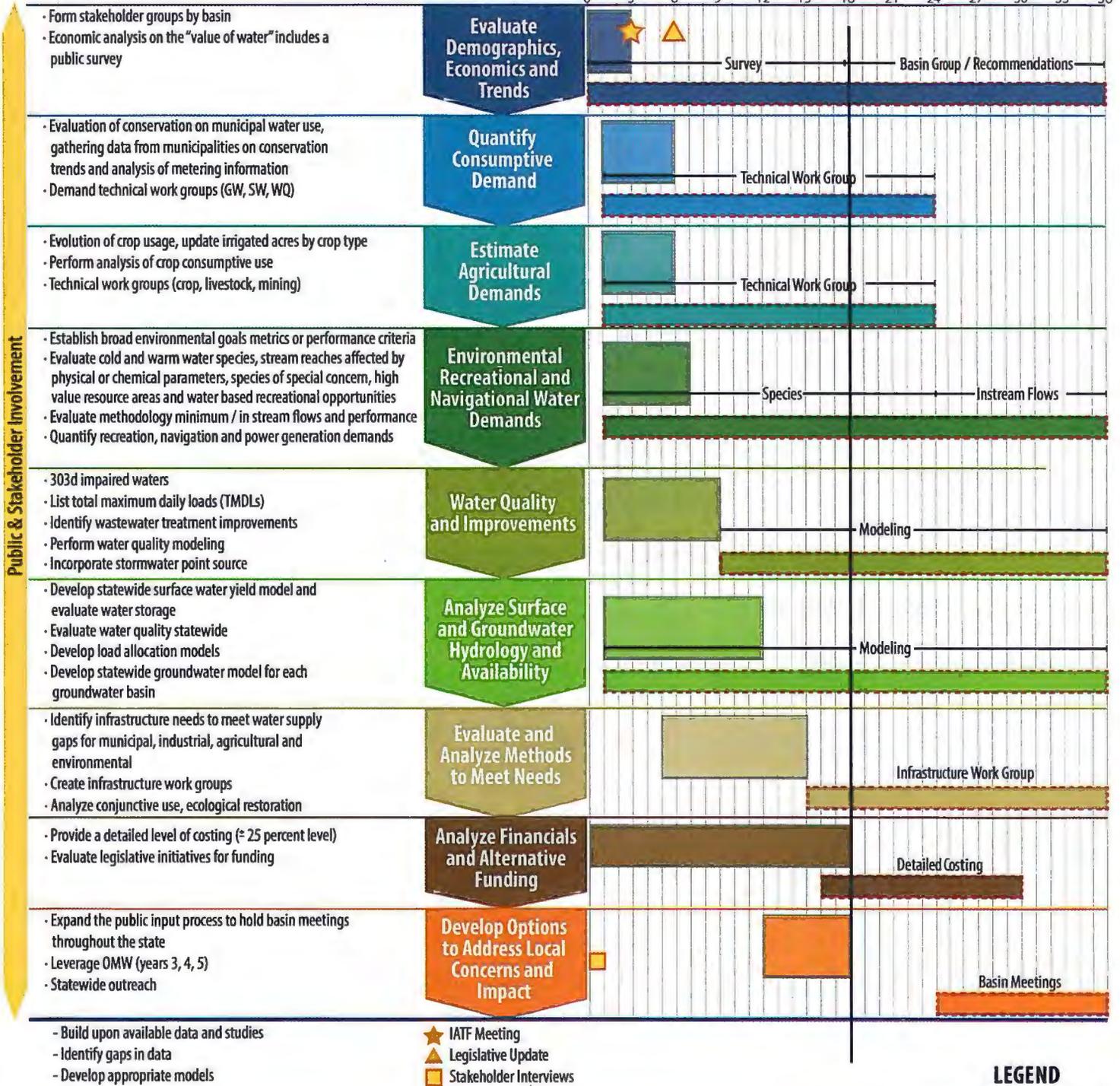


Public & Stakeholder Involvement

- Applying available data and studies
- No new H&H or groundwater modeling
- No Decision Support model/tool
- ★ IATF Meeting
- ▲ Legislative Update
- Stakeholder Interviews

Missouri Water Plan

TASKS AND TIMELINE: OPTIONS 2 AND 3

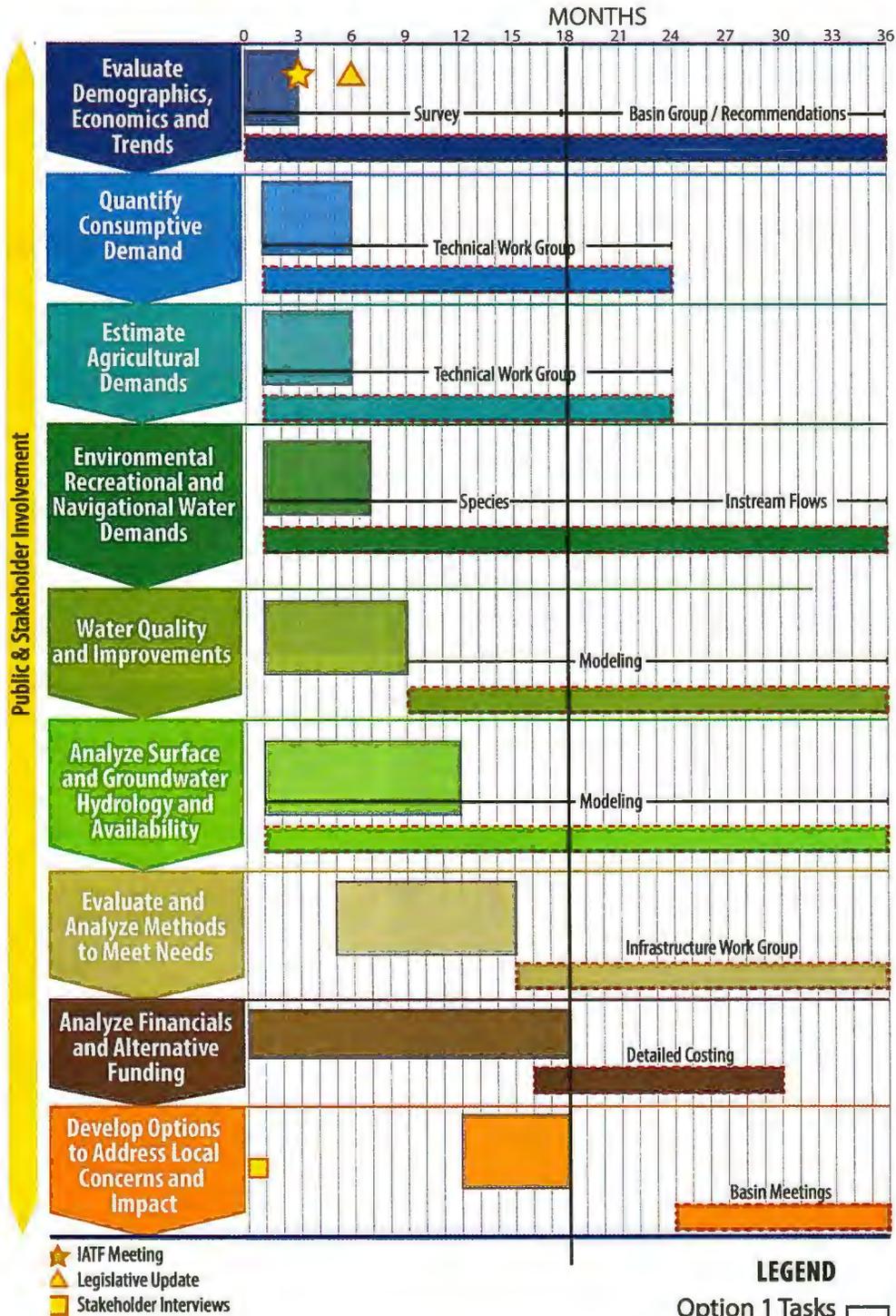


LEGEND

Option 1 Tasks and Schedule
 Option 2 and 3 Tasks

Missouri Water Plan

TASKS AND TIMELINE: OPTIONS 1, 2 AND 3



Section 3 Task Descriptions and Assumptions



Evaluate Demographics, Economics and Trends

The overall objective for all tasks will be to develop a common technical platform for the state. A common technical platform will be useful for building consensus and comparing needs across the state. All tasks will be executed at the designated planning level for the state, i.e., five planning regions.

Quantify Consumptive Demand

Assumptions:

Option 1:

- Planning horizon will be 2060 for the State Water Plan.
- Planning regions will mirror the five planning regions from the previous State Water Plan.
- Region descriptions and institutional setting (e.g., mission, mandates, laws and policies) will be migrated forward from the previous State Water Plan.

Estimate Agricultural Demands

Environmental Recreational and Navigational Water Demands

Options 2/3:

- The scope of the effort will be expanded particularly in the areas of demand projection, groundwater availability, infrastructure and stakeholder involvement.
- Planning regions may be defined differently (e.g., based on watersheds) or expanded beyond the five planning regions from the previous State Water Plan.
- Basin descriptions and institutional setting will be revised to include information that represent changed conditions with respect to water management in 2015.

Water Quality and Improvements

Analyze Surface and Groundwater Hydrology and Availability

Evaluate and Analyze Methods to Meet Needs

Task 1 Evaluate Demographics, Economics and Trends

The evaluation of economic, demographic and social trends for a region begin with a clear understanding of what issues, questions and objectives the state is seeking to answer with these data. There will be a consideration of past, current and future growth projections; both economic and population. These are drivers of sector water demand projections.

Analyze Financials and Alternative Funding

Assumptions:

Option 1:

- The Missouri Census Data Center and the Office of Administration's state demographer will provide population projections to 2030. MDNR will extrapolate population projections to 2060 as were completed for southwest Missouri.

Develop Options to Address Local Concerns and Impact

Options 2/3:

- The state demographer will provide population projections to 2030. CDM Smith will extrapolate population projections to 2060 at the county level. These projections will be available by county.

Task 2 Quantify Consumptive Demands

Water use data must be gathered from available sources including MDNR's Major Water User database, U.S. Geological Survey (USGS) reports, and the Public Water Supply Census. Several methodologies will be looked at to determine municipal and industrial demands. Gallons per capita or projections by sector applying employment will depend upon the available data and purpose. Stakeholders may contribute in support of methods applied and accepting the findings.

Assumptions:

Option 1:

- County-wide gallons per capita per day (gpcd) will be established based upon the Public Water Supply (PWS) Census production values and population served. Self-supplied residential will be based upon population by county minus PWS population served multiplied by per capita water use. Self-supplied nonresidential water use will be obtained from MDNR's Major Water User database and USGS reports.

Options 2/3:

- County-wide gallons per capita per day (gpcd) will be established as data are available from water providers. An extensive analysis of conservation savings will be performed.
- Demand projections for each of the water use sectors defined in the MDNR's 1994 Water Use in Missouri report will be completed on a county basis.

Task 3 Estimate Agricultural Demands

Agricultural demands consist primarily of crop irrigation, livestock watering and aquaculture. Acres by crop type and number of livestock are readily available in the USDA's Census of Agricultural data. Future projections of the mix of crop type, head of livestock, and water use by type are the key drivers in determining agricultural demands. Understanding the latest practices and technologies are key when making these determinations.

Assumptions:

Option 1:

- Irrigated acres by crop type, livestock and aquaculture counts are available from USDA's Census of Agriculture. USGS Water Use reports along with University of Missouri Extension data can be used to estimate water use per head and irrigated acre by crop type, respectively. Projections for agriculture use would be based on historic trends.

Options 2/3:

- Agriculture acres by crop type are available, an analysis of crop consumptive use is performed including climate variability impacts on crop consumptive use.
- Stakeholders from each agricultural demand sector may contribute in support of methods applied and accepting the findings.

Task 4 Environmental, Recreational and Navigational Water Demands

Non-consumptive water demands are considered recreational, navigational, environmental and power utilities. These demand sectors are important economic drivers in Missouri. The State Water Plan would set priorities and balance the impacts of future consumptive demands with the non-consumptive demands. The State Water Plan would set future study of flows required for recreation, navigation and the environment. Power generation, both hydropower and thermal, are also large users of water for turbine generation and cooling water. User groups are essential to understanding and balancing these demands.

Assumptions:

Option 1:

- Demands for non-consumptive use will be projected at the same use as today. For example, thermal power projections based upon the Department of Energy's Energy Information Agency's projections by fuel type for reference, high, low may be applied for demand estimates.
- Environmental and recreational demands will be identified.

Options 2/3:

- Environmental attributes will be identified by stakeholders in each planning area. These attributes can be used to determine environmental priorities for flows and project priorities. A methodology and tools for developing in-stream flows will be established.

Task 5 Water Quality and Improvements

Water quality is critical to the health and economy of Missouri for current and future generations. Water quality is important for potable water, end of the pipe wastewater, and stormwater discharges. Water quality plays a vital part of the biological integrity and diversity of the state's water systems and as such contributes greatly to recreational opportunities. There are existing regulatory programs and processes for waterways that are included on the 303d list or those that have an approved total maximum daily loads (TMDLs) that work outside the State Water Plan. The plan process will assist in identifying water quality needs associated with ammonia.

Assumptions:

Option 1:

- Water and wastewater treatment facility information is available from the MDNR's violations database and the Missouri Clean Water Information System (MoCWIS).
- Water quality improvements with respect to ammonia will be identified.

Option 2/3:

- Include 303d lists and TMDL information to inform the decision making process.
- Nonpoint Source, watershed restoration projects and monitoring data is available; in coordination with *OMW*.
- Water quality needs will be expanded beyond ammonia to include nutrients.
- Water quality modeling will be performed to evaluate assimilative capacity and wastewater upgrades.

- Groundwater quality data will be available from MDNR's groundwater monitoring network and USGS.

Task 6 Analyze Surface and Groundwater Hydrology and Availability

Evaluation of surface and groundwater sources may include collection of data from a variety of sources including the state, USGS and the U.S. Army Corps of Engineers (USACE). The state has completed stream and reservoir firm yield studies for at risk water supplies in Missouri. The studies examine the drought of record firm yields and are published in the Missouri Water Supply Study (RESOP), June 2011.

The state may find that additional water availability analyses are required to support decision-making related to the water supplies to serve projected water needs. As the state continues to focus on potential gaps in water supply for future demands and potential means to serve those gaps, the state may find that additional water availability estimates should be prepared.

Assumptions:

Option 1:

- Water treatment facility information is available from MDNR's Safe Drinking Water Intended Use Plan (IUP).
- Surface water supply availability will be determined using USGS's gage data. Availability will be determined using the three return intervals to be determined by MDNR for average, wet and dry conditions. One climate scenario will be included.
- Reservoir water availability will be determined using the RESOP study to evaluate yield. USACE reservoirs will also be evaluated for storage and to evaluate reallocation.
- Groundwater availability will be assessed with existing groundwater data including the MDNR's well data monitoring network.

Options 2/3:

- Three climate variability scenarios (hot/dry, central tendency and warm/wet) and a scenario based on historic conditions for temperature and precipitation will be evaluated for the 2060 planning horizon.
- Reservoir water availability will be determined using the RESOP study to evaluate renewal storage. USACE reservoirs will also be evaluated for storage and to evaluate reallocation. Reservoir optimization modeling may be used to determine reallocation volumes.
- Groundwater availability will be determined from two existing groundwater models and additional modeling in areas where groundwater supplies appear to be limited as indicated by historical use (declining water levels) or quality.
- Well data will be provided by MDNR for areas where groundwater is declining.

Task 7 Evaluate and Analyze Methods to Meet Needs

One of the key tenants of state water planning is the principle of identifying a broad range of supply and demand management strategies, as well as inclusion of a complete set of water use sectors. At the same time, in some cases, existing planning efforts have identified the most effective and implementable

strategies. The plan will start with the principal of maximizing existing planning efforts to help ensure that local planning initiatives are respected, to promote efficiency and buy-in to the state planning effort, and reduce duplication of efforts. In some cases, existing, permitted and planned projects/capacity can meet all or a portion of long-term needs. The remaining unmet need or gap between supply and demand then becomes the principle focus of the decision-making process.

Projected demands will be compared to existing projects identified for each basin. This will allow for identification of infrastructure gaps. This gap analysis is essential, as it identifies the current and future needs for new water supply projects and management options.

The overall purpose of this task is the development and selection of a series of projects and strategies for addressing specific current or future water supply shortfalls and water and wastewater quality demands. Examples of strategies to be analyzed may include storage and conveyance infrastructure, treatment supply augmentation, existing supply management (e.g., reuse, USACE reservoir reallocation) and demand management (e.g., conservation and drought restrictions). Implementation of projects to meet environmental, recreational, navigational and power will also be identified in this task.

Assumptions:

Option 1:

- Information on planned infrastructure projects will come from a variety of sources. This would include a survey of water and wastewater providers (response rate for this could be in the 30 to 50 percent range), requesting data from:
 - The Missouri Water and Wastewater Review Committee
 - Missouri State Revolving Fund
 - U.S. Department of Agriculture Rural Development
 - Community Block Development Grant Program
 - Contacting large wholesale potable water and wastewater utilities in the state
- Gap analysis for municipal and industrial will be conducted to determine an infrastructure gap. This will be done by analyzing demands and subtracting projects identified by water providers.
- Gap analysis for other demand sectors will include agriculture, navigation, recreation and environment.
- In addition to projects, broad strategies for water supply will be evaluated. These strategies include:
 - Conservation
 - Reuse
 - New surface water supply development
 - Additional pumping
 - Reservoir storage, firm yield and reallocation

Options 2/3:

- Municipal and industrial infrastructure project lists will be based on planned projects from water and wastewater service providers. These lists will be compiled from a survey of water and wastewater providers.

The appropriate strategies will be evaluated for each of the planning areas. Appropriate strategies for each planning area will be informed by stakeholders and determined by the MDNR.

Task 8 Analyze Financials and Alternative Funding

As a result of the analysis of demands, constraints and opportunities, both a current and future set of implementation strategies and associated infrastructure costs can be projected for the future. MDNR's State Revolving Fund (SRF) program would be reviewed and identify shortfalls in future funding. These are reconnaissance-level estimates (plus or minus 50 percent). Nonfinancial considerations for prioritization should be taken into account, for instance recreational benefits.

*Assumptions:***Option 1:**

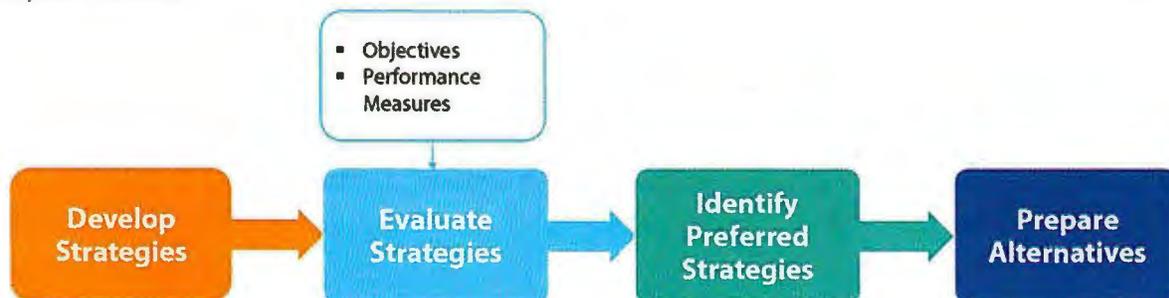
- Costs will be evaluated for each of the five planning regions including the general location, infrastructure needed to implement, and planning-level costs at plus or minus 50 percent level contingency.

Options 2/3:

- Objectives and performance measure will be determined from a broad stakeholder process.

Task 9 Develop Options to Address Local Concerns and Impact

Options to address local concerns will be developed and should include the following considerations: develop and evaluate water and wastewater supply projects and options consisting of structural and nonstructural measures that appear to be feasible as well as politically and socially acceptable; formulate water supply and wastewater options for the implementation of the most promising alternatives in each region; and build consensus among all parties to the study process as to which alternatives should be pursued for implementation.



The above steps can be accomplished through a facilitated, collaborative, consensus-based stakeholder process or through a more systematic analysis process. Both processes require developing a more clear understanding of the interrelationships among individual water supply options, both existing and new, requiring the entire water system be examined in a comprehensive fashion. If a more systematic analysis approach is preferred, a first step in evaluating water solutions is to develop comprehensive alternatives that represent combinations of supply strategies.

*Assumptions:***Option 1:**

- Objectives and performance measures will be determined from the interview process.

Task 10 Final Report

An Executive Summary and final report will be prepared. Each step will be included in separate sections. All database and documentation used will be provided.

Task 11 Public and Stakeholder Interaction

Citizens of Missouri are experts about their local water resources. They know the resources best. This innovative approach to stakeholder engagement outlined below builds upon recent academic research in effective public participation to listen to these experts first. From the beginning of the planning process, it engages, documents and incorporates citizens' water expertise to ensure current and anticipated concerns, ideas for solutions, and priorities inform and shape the entire planning effort.

Social and political acceptance within regions and local jurisdictions is an outcome of successful public engagement. Successful engagement acknowledges, listens to, and incorporates the water expertise of Missourians into water planning. Public and stakeholder engagement within this process will leverage the ongoing watershed planning efforts of *OMW* to ensure sound and coordinated outreach. Statewide public outreach and education is a fundamental part of the State Water Plan process to gain insight and input and garner constituent support for future funding.

Given the shared nature of the resource and naturally competing interests in the State Water Plan, collaboration will be paramount in successfully completing the plan.

*Assumptions:***Option 1:**

- Interview up to 60 to 80 representatives and leaders within Missouri's water community to define water values, current priorities, anticipated concerns and planning recommendations.
- Stakeholder involvement will focus on outreach to leverage the capacities of existing stakeholder groups and partnerships such as *OMW* and existing commissions and committees.
- Contribute content to the MDNR to include on the Web, newsletter, press release, public service announcement and speaker's bureaus.
- Public outreach support will include 15 meetings during 18 months.

Option 2/3:

- Two statewide stakeholder work groups will be formed to provide information and develop consensus on the approach, data sources and results for the demand and water availability. Both the demand and water availability work groups are anticipated to meet two times each to review the proposed approach and data and to review the findings for a total of four statewide meetings.
- Subgroups of the statewide demand and water availability work groups are expected to form and will meet on an ad-hoc basis.



The following is a budget guideline by task for Option 1, if the MDNR chooses to move forward with the scope of services described in Section 3. Depending on budget and availability, CDM Smith can revisit the assumptions with the MDNR to meet its needs.

Task	Description	Total
Task 1	Evaluate Demographics, Economics and Trends	\$ 75,000
Task 2	Quantify Consumptive Demands	\$ 150,000
Task 3	Estimate Agricultural Demands	\$ 52,000
Task 4	Environmental, Recreational and Navigational Water Demands	\$ 52,000
Task 5	Water Quality and Improvements	\$ 349,000
Task 6	Analyze Surface and Groundwater Hydrology and Availability	\$ 224,000
Task 7	Evaluate and Analyze Methods to Meet Needs	\$ 376,000
Task 8	Analyze Financials and Alternative Funding	\$ 203,000
Task 9	Develop Options to Address Local Concerns and Impacts	\$ 216,000
Task 10	Final Report	\$ 103,000
Task 11	Stakeholder Involvement	\$ 200,000
Total		\$ 2,000,000

Note: These preliminary costs estimates do not include the USACE overhead or other contributive costs to the project, if funded through the Planning Assistance to States Program.

As demonstrated in CDM Smith’s statewide planning qualifications (Section 5), the range of issues and approaches can vary greatly in support of a collaborative, comprehensive and contemporary water plan process. CDM Smith estimates that in order to complete the items listed as assumptions for Options 2/3 above, the total project cost could range from \$2 to \$4 million allowing 2 to 3 years to complete.

Section 5 Qualifications



About CDM Smith

CDM Smith is a consulting, engineering, construction and operations firm delivering exceptional service to public and private clients worldwide. An employee-owned corporation with over \$1 billion in annual revenues and a multidisciplinary staff of nearly 6,000 employees working from 120+ offices worldwide, we take pride in the freedom to put our clients first and apply our minds and passions to imagine and create sustainable solutions.

CDM Smith maintains the size, stability and resources to successfully undertake a diverse range of projects with a local staff of 45 employees.

Planning for Water

Water is among our most precious and strained resources—making statewide water resource planning of critical importance. Almost by definition, statewide planning often strains the traditional boundaries and takes a more comprehensive look at water use sectors not inherent in traditional water resource planning. Statewide plans at their core typically seek to establish a vision for sustaining and enhancing the social and economic conditions of the state and its various regions.

At CDM Smith, we have applied innovation to integrated resources planning, the developed system models and decision support tools, and have recent experience with incorporating climate change into decision-making efforts. In Oklahoma, Colorado, Georgia, California, Texas, West Virginia, Arkansas, South Carolina and IRPs in 15 states, the CDM Smith has facilitated and successfully completed water resource plans that focus on a collaborative and consensus-driven process. In addition, we have completed an assessment of state planning for the USACE. The CDM Smith Team's experience in statewide planning is unmatched.

CDM Smith has been supporting supply studies in concert with the MDNR and the USACE in both Northwest and Southwest Missouri over the past 5 years. These studies have evaluated source water supplies, USACE reservoir reallocation considerations and infrastructure needs, costs, and funding. Collectively, these studies continue to support the implementation of Missouri's State Water Plan.

UNPARALLELED STATEWIDE PLANNING EXPERTISE

OKLAHOMA
(\$3 million)

In Oklahoma, our successful statewide planning effort focused on quantifying demands, supply and legal and physical supply gaps, improving planning capacity of the state and local utilities via modeling and analytical tool development and robust public outreach. With 82 major watersheds and a critical dependence on the Ogallala aquifer the CDM Smith Team worked closely with the USACE and Oklahoma Water Resources Board (OWRB) under a unique funding and political partnership. Our leadership and technical support provided the detailed quantification of available resources and also identified critical infrastructure needs though detailed outreach to local utilities. This provided the USACE and OWRB an understanding of resource, policy and legal constraints/limitations.

COLORADO
(\$2.7 million for the first phase; 10 years, \$1-2 million per year)

In Colorado, CDM Smith has completed the most comprehensive analysis of water supply and resource needs in the state's history. Over

the last eight years, CDM Smith completed the Statewide Water Supply Initiative (SWSI) 1, SWSI 2, SWSI 2010, Basin Needs Assessments. In addition, we are currently completing the Basin Roundtable Basin Reports, five Annual Reports for the IBCC, assisted the CWCB in numerous planning efforts to integrate this technical work into each of the CWCB sections as well as supporting the agencies Water Supply Planning section.

GEORGIA
(\$6 million)

CDM Smith worked with Georgia to completed its first statewide water development and conservation plan. This regionally-focused planning process required accommodation of Georgia Reasonable Riparian Use Laws and the need to look more closely at the sustainability of surface and groundwater use and development.

ARKANSAS
(\$3 million over 2 years)

CDM Smith worked closely with the Arkansas Natural Resource Commission and various stakeholders to update the state water plan. CDM Smith was responsible for

generating a defensible and balanced forecast of agriculture irrigation water use for the entire state of Arkansas, including the intense water using area of the Delta. The forecast included detailed statistical modeling of irrigated acres based on historical trends and crop and county specific water application rates. CDM Smith communicated the working methodology to a diverse group of stakeholders and incorporated their qualitative knowledge into the final statistical model.

WEST VIRGINIA
(\$2 million)

CDM Smith was recently selected to provide a statewide water plan for the State of West Virginia. The plan will include water supply demand, water quality, water modeling, shortage analysis and gap alternatives.

SOUTH CAROLINA
(\$1 million)

CDM Smith was recently selected to provide a statewide modeling platform for South Carolina using the SWAM model.

INDUSTRY LEADER in INTEGRATED WATER RESOURCES MANAGEMENT

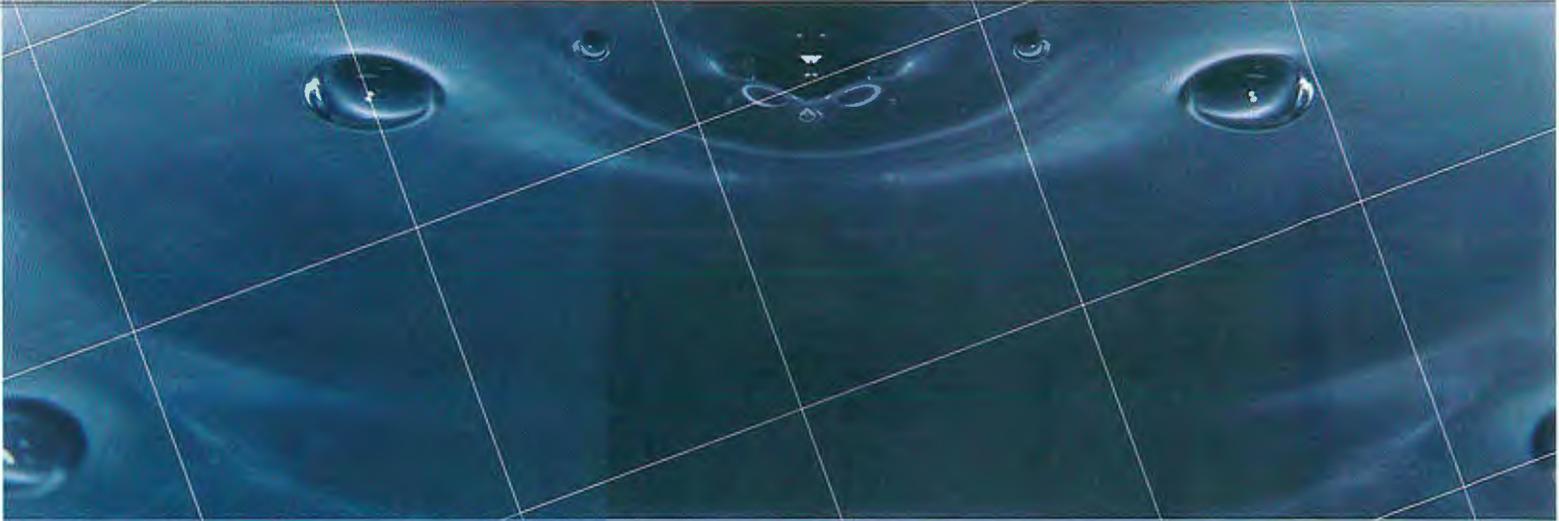


Nationally, CDM Smith has prepared more than 40 integrated resources plans and state and regional water plans involving stakeholder collaboration and decision making. These plans enjoyed broad stakeholder support, provided a framework for comprehensive water resources management and led to project implementation and funding. Tools utilized to develop decisions included IWR-MAIN, STELLA, and SWAM.

Team Member/Role	Biographical Summary
Mike Beezhold, Project Manager	Mr. Beezhold is a senior planner with over 20 years of water resources planning experience. Mike has been the Project Manager for the Southwest Missouri Water Resources Studies Phases I, II and III and the ongoing Stockton Lake Reallocation Study (2011 – Present). Mike also served as task manager for the Arkansas Statewide Water Plan.
Sue Morea, Senior Technical Specialist	Ms. Morea offers the MDNR 28 years of water supply planning and water quality experience. Sue Morea is CDM Smith’s statewide planning expert and has served as program manager and project director for the following statewide water plans Colorado, Georgia, Arkansas, Oklahoma, and South Carolina.
Pat O’Neill, P.E., Infrastructure Planning	Mr. O’Neill brings nearly 25 years of infrastructure planning and design experience including water treatment and distribution, wastewater treatment and collection, and water resources management. Pat’s primary focus has been working with various municipalities and utilities located across Missouri, Kansas, Iowa, and Nebraska to develop infrastructure solutions, address regulatory requirements, and identify funding alternatives.
Sarah Stewart, P.E., Water and Wastewater	Ms. Stewart is an environmental engineer with 13 years of experience with planning and design for both water and wastewater utilities, site-civil design; wastewater collection systems and treatment; water and wastewater pump stations; and, potable water treatment, distribution and storage design. Sarah has recently served as the Project Manager for the Northwest Missouri Water Supply and Alternatives studies.
Tim Feather, PhD., USACE Liaison	Dr. Feather’s focus has been on the development of interdisciplinary solutions to water supply challenges. Tim compiled a summary of the state water planning for all 50 states that was published by the American Society of Civil Engineers (ASCE) Environmental and Water Resources Institute. He then led a similar initiative for the U.S. Army Corps of Engineers, where each state was interviewed as part of the summary process. These state water summaries are found at http://building-collaboration-for-water.org/ .
Mark McCluskey, Supply Availability	Mr. McCluskey has over 15 years of experience in groundwater and hydrologic modeling, water supply, and water rights. Mark was the Project Engineer for the water supply aspects of the following statewide water plans; Colorado, Arkansas, and Oklahoma.
Bill Davis, Demands	Mr. Davis specializes in conducting water demand analyses, developing water use forecasts, evaluating water conservation programs and incorporating these analytical components into State Planning. Bill served as the Task Manager for the Oklahoma, Colorado, and Georgia Statewide demand forecasts.
Becky Dunavant, Water Quality	Ms. Dunavant has over 15 years of experience as an environmental scientist, specializing in water quality and water supply planning projects. Becky served as the Project Manager for TMDL Development for the Illinois Environmental Protection Agency. Becky served as task leader for the environmental water demands for Colorado, Oklahoma, and Arkansas.

Bill Mullican, Funding	In Mr. Mullican's over 30 years, Bill has had extensive interaction with the technical community, governmental entities at the local, state, and federal levels, stakeholders, and general public and provided invited testimony to the United States Congress on four occasions and on over 25 occasions to the Texas Legislature. Bill served as Deputy Executive Administrative for Water and Science Conservation, Texas Water Development Board 1997-2008.
Damon M. Hall, PhD., Stakeholder Involvement	Damon M. Hall, Ph.D. is an Assistant Professor in the Center for Sustainability, a graduate-degree granting research institute, at Saint Louis University in St. Louis, Missouri. Recently, Dr. Hall designed, conducted, and analyzed citizen engagement for the Scoping Phase for the Yellowstone River Basin's 2015 Montana State Water Plan sponsored by the Montana Department of Natural Resources and Conservation. More than 200 basin-wide water users participated in this phase within the Yellowstone Basin.

Full resumes available upon request.



**CDM
Smith®**
cdmsmith.com

Pulaski County Soil & Water Conservation District
301 Historic 66 East Suite 201 Waynesville, Mo. 65583
(573) 774-4767 or (573) 774-4765

September 15, 2015

SWCP Commission
PO Box 176
Jefferson City, Mo. 65102-0176

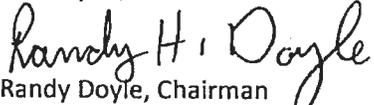
Dear Sirs,

Pulaski County has received a resignation letter from Area III board member Sharon Gifford. The board recommends Mr. Tony Dye to replace this vacant seat.

Tony Dye
PO Box 576
Waynesville, Mo. 65583

A verification of supervisor eligibility is included with this request.
If any further information is needed please contact the Pulaski County SWCD office.

Thank you,


Randy Doyle, Chairman

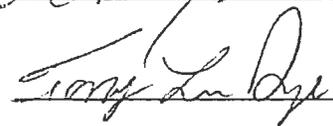
VERIFICATION OF SUPERVISOR ELIGIBILITY

**To qualify for office, according to Missouri's Code of State Regulations,
10 CSR 70-2.020, Conduct of Supervisor Elections, a candidate shall:**

- 1) Be a land representative as defined by "The owner, or representative authorized by power of attorney, of any farm lying within the soil and water conservation district (SWCD); provided, however, that any land representative must be a taxpayer of the county within which the SWCD is located," and
- 2) Be a resident taxpaying citizen within that SWCD for two (2) years preceding the appointment to the District Board of Supervisors by the Commission, and
- 3) Be a cooperator of the SWCD defined as "A person who is actively involved in farming and practices conservation activities related to agriculture," and
- 4) Reside in or own a farm lying in the same territory where the board position is vacant.

The undersigned certify that the candidate meets all of the above stated eligibility requirements to serve as a supervisor for the County Name Soil and Water Conservation District.

Chairperson (or acting) Signature:  Date: 9-15-15

Candidate Signature:  Date: 9-15-15

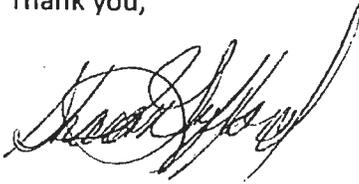
August 10, 2015

Fellow Board Members,

Personal reasons have forced me to submit my resignation from the Pulaski County Soil & Water Conservation District Board.

Please accept my resignation effective immediately.

Thank you,

A handwritten signature in black ink, appearing to read 'Sharon Gifford', written in a cursive style.

Sharon Gifford
Chairman
Pulaski County SWCD

Klm/Sg

Dunklin County Soil and Water Conservation District



704 North By Pass, Kennett, MO 63857
Phone (573) 888-2480

Department of Natural

P.O. Box 176

Jefferson City, Missouri 65102

Dear Commissioners:

The Dunklin County SWCD Board Member, David Daniels, resigned after 15 years plus of service at the last board meeting. Attached is his letter of resignation for your review. In response to Mr. Daniels' resignation, we would like to recommend Stewart Worrell to fill the remaining year left of Mr. Daniels' term. We will greatly miss Mr. Daniels and the outstanding leadership he has provided us, but we feel Mr. Worrell is appropriately qualified and will be a welcome addition to the Dunklin SWCD Board. We have included the Supervisor Verification Form and wish that the Commission would approve our choice of the new board member.

Thank You

Mike Milam

Dunklin County SWCD
Board Secretary

Attachments: 2

19475 State Highway 164
Hornersville, Missouri 63855
September 24, 2015

Dear Sirs:

I am resigning from my position on the Missouri Soil and Water Conservation board effective as of this date.

Sincerely,

A handwritten signature in black ink, appearing to read "David Daniels", written in a cursive style.

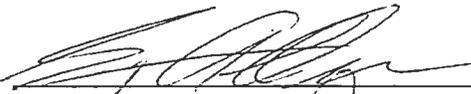
David Daniels

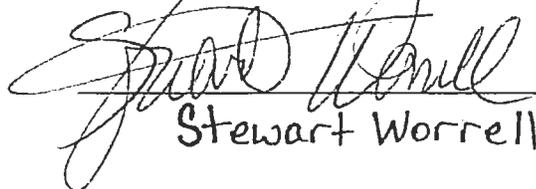
VERIFICATION OF SUPERVISOR ELIGIBILITY

**To qualify for office, according to Missouri's Code of State Regulations,
10 CSR 70-2.020, Conduct of Supervisor Elections, a candidate shall:**

- 1) Be a land representative as defined by "The owner, or representative authorized by power of attorney, of any farm lying within the soil and water conservation district (SWCD); provided, however, that any land representative must be a taxpayer of the county within which the SWCD is located," and
- 2) Be a resident taxpaying citizen within that SWCD for two (2) years preceding the appointment to the District Board of Supervisors by the Commission, and
- 3) Be a cooperater of the SWCD defined as "A person who is actively involved in farming and practices conservation activities related to agriculture," and
- 4) Reside in or own a farm lying in the same territory where the board position is vacant.

The undersigned certify that the candidate meets all of the above stated eligibility requirements to serve as a supervisor for the Dunklin County Soil and Water Conservation District.

Chairperson (or acting) Signature:  Date: 24 Sept 2015

Candidate Signature:  Date: 9/24/15
Stewart Worrell



United States
Department of
Agriculture

Natural
Resources
Conservation
Service

Plattsburg Field Office
1800 W. State Route 116
Plattsburg, MO 64477
Phone: 816-539-3741 ext 3

Date: July 30, 2015

Dear Stanley E Vest,

During 2015 spot check of conservation practices in Clinton County the following issues were found:

The practice reviewed in the field does appear to be functioning as designed and the landowner is extremely happy with the finished product. However, this practice does not meet the 362 Diversion Standard. The design did not include the 0.3' of freeboard that is required by the 362 standard, but since the drainage area is less than 20 acres and the entire practice was constructed with a 6'-7' top width, it does fall within the requirements of the 638 standard. Another issue that was discovered while reviewing the design was that the yardage submitted for payment was the "Cut" yardage from TDT and not the "Fill" yardage as I would have expected. If we had attempted to balance the Cut and Fill and still had a small amount of difference, I would not have a big concern with paying on the larger yardage, but in this case it does not appear that we attempted to balance the cut and fill. A redesign was completed, as a WaSCB, using a 6' top width and the original cuts and the difference in yardage was 1240 CY Cut and 1034 CY Fill, or about ~~206 CY~~. Since this was a DNR assisted project, the board should be made aware of this error and it will be up to them if they wish to pursue asking for any funding to be paid back by the producer. In the future all quantities to be paid on shall be the "Fill" quantities unless an attempt to balance the Cuts and Fills is made or if additional cuts are required to meet storage requirements.

If you have any questions please contact our office at 816-539-3741 ext 3.

Sincerely,

A handwritten signature in black ink that reads "Jason Saunders".

Jason Saunders
District Conservationist

August 11, 2015

Stanley E Vest
5855 NE 292nd Street
Turney, MO 64493

Dear Stanley E Vest:

The Clinton County Soil and Water Conservation District has the responsibility to follow up on cost-share practices to see that they are maintained to the extent of their predetermined lifespan. Two technicians from this office visited the site on June 18, 2015 where you received funding for a Diversion. The extent completed was 206 cubic yards short of the extent reported and paid on.

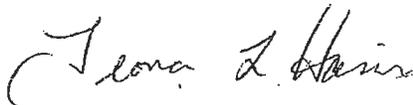
This shortage is a violation of the 10 year life span as agreed upon in the claim signed on March 26, 2015. Because of this we are required to request repayment in the amount of \$434.66 to:

Department of Natural Resources, Soil and Water Conservation Program
c/o Clinton County SWCD
1800 W Highway 116
Plattsburg, MO 64477

Payment in full will need to be received within 30 days from receipt of this letter and may be in check or money order. Failure to issue the repayment will result in your defaulted file being turned over to the State of Missouri for collection.

If you have any questions regarding this matter please contact us at 816-539-3741 extension 3.

Sincerely,



Teona L Harris
Clinton County SWCD
District Manager

August 25, 2015

Ms. Teona L. Harris
Clinton County SWCD, District Manager
1800 W. Highway 116
Plattsburg, MO 64477

Dear Ms. Harris,

Reference is made to letters, dated July 30 and August 11, corresponding and informing me of a reporting error made by the Clinton County SWCD regarding the extent installed on Contract SGE 084-15-0037 CO 1.

The purpose of this letter is three fold:

1. Clarifying for the record that no errors or mistakes were committed by this landowner.
2. Request a written clarification in layman's terms what the issue is. Landowner is not an engineer.
3. Request information on how past reporting errors made by Clinton County SWCD like this have been resolved and appeal rights of the landowners under these circumstances.

My wife and I worked diligently with your technicians since the project began last fall. We understand clearly our responsibility to maintain the finished water diversion project, as designed. We do not believe there has been any failure on our part related to maintaining the project to the extent of its predetermined purpose and lifespan.

I look forward to hearing from you.

Sincerely,



Stanley E. Vest

Contract # SGE 084-15-0037 CO 1

September 1, 2015
Stanley E Vest
5855 NE 292nd Street
Turney, MO 64493

Dear Mr. Vest,

In reference to your letter dated August 25 2015 requesting additional explanation in reference to your contract with the Clinton County SWCD, SGE 084-15-0037 CO I.

The purpose of this letter is three fold:

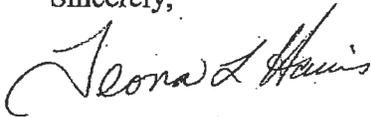
1. Clarifying for the record that no errors or mistakes were committed by this landowner.
 - a. No errors were made by you the landowner.
2. Request a written clarification in layman's terms what the issue is. Landowner is not an engineer.
 - a. The practice contract that was written for you was for a diversion, which means that it needed to have an extra 0.3 ft. of height (freeboard as stated in the letter dated July 30, 2015) according to the practice standard. This was a technical error on our part during the design process and was not caught until after the payment was made. When our office completed a spot check of installed conservation practices for 2015 this error was found. In lieu of requiring you to raise the height of the diversion our office redesigned the practice under a different construction practice called Water and Sediment Control Basin (WaSCB) which does not require the additional 0.3 ft. and since the structure that was built had a 6 – 7 ft. top width it meets construction standards for this practice. Therefore we did not require you to complete additional dirt work to increase the height of the structure/diversion. Another technical error was also made with the amount of yardage that was paid for. This is due to the fact that our office paid for the amount of dirt/cubic yardage that was cut or moved to build the structure instead of the amount of dirt required to construct the structure, the fill cubic yardage. Which is also noted in the letter dated July 30, 2015 that equals 206 cubic yards over the amount of 1034 cubic yards that should have been paid for. The redesign and the request for repayment of the excess paid for was completed to prevent you from having to complete any earthmoving correction to the completed practice which would have required you to have a contractor back to the site to raise the structure 0.3 ft. and also reseed and mulch. We did not want you to have to destroy the practice that you had in place and therefore that is why the practice was redesigned under the Water and Sediment Control Basin standard.

3. Request information on how past reporting errors made by Clinton County SWCD like this have been resolved and appeal rights of the landowners under these circumstances.
 - a. Past payment errors made by Clinton County have been resolved in the same manner as yours. We understand that the technical errors were made here in the office, but the fact is that the practice needs to meet standards and specifications and either the diversion needs to be raised 0.3 ft. in height then reseeded and mulched or as we have proposed, use the redesigned structure under the Water and Sediment Control Basin Standard and repay the excess payment of \$434.66.

We understand that you feel that the finished water diversion as not and will not fail, but the diversion does not meet the standard as a diversion even though it is functioning at this time.

Full payment will still need to be made as specified in the original letter dated August 11, 2015. Please feel free to contact our office if you have any further questions 816-539-3741 ext. 3.

Sincerely,



Teona L Harris
Clinton County SWCD
District Manager

Re: Contract # SGE 084-15-003 7 CO 1

September 14, 2015

Missouri Soil & Water Conservation

Subject: Appeal – Contract SGE 084-15-0037 CO 1 (funding payback)

Reference is made to letters, dated July 30 and August 11, corresponding and informing me of a reporting error made by the Clinton County SWCD regarding the extent installed on Contract SGE 084-15-0037 CO 1.

I recently received additional correspondence from the local County SWCD District Manager. Ms Harris provided a very well written letter explaining the technical aspects of a yardage shortage which resulted in me receiving notification to pay back \$434.66.

The local district office has clarified for me that no errors or mistakes were committed by me. We worked diligently with field personnel to ensure precise compliance with the contract terms and conditions. The district office explained the technical aspects of how the yardage shortage occurred, and in my laymen understanding I believe it came down to a simple issue of not enough dirt being moved or not enough dirt put into place on the diversion. But I also believe that the work site itself had to be taken into consideration which would allow me to properly and safely maintain the diversion in the out years. In short we worked together to ensure the back side of the diversion which points north and down towards an adjacent road, was not too steep to safely work on. But with that said, I need to say that along the way there were multiple field visits and meetings with my contractor to ensure we were getting it right.

I am completely satisfied with the work and I truly believe everyone did their due diligence to make sure we got it right and that the diversion will allow the prevention of erosion which was very extreme before doing this project. I appreciate all the technical support of the local office and only request that I not be required to pay back the funding calculation related to this project. I have already paid my contractor and it would not be feasible for me to approach them now and ask for a refund.

Your favorable consideration to this appeal is much appreciated.

Sincerely,


Stanley E. Vest

Contract # SGE 084-15-0037 CO 1



Missouri Department of Natural Resources

MINUTES

MISSOURI SOIL AND WATER DISTRICTS COMMISSION

Missouri State Fair Grounds

Lowell Mohler Assembly Hall/National Guard Armory

Sedalia, Missouri

August 19, 2015

COMMISSION MEMBERS PRESENT: Thomas Bradley, H. Ralph Gaw, Jeff Lance and Gary Vandiver

EX-OFFICIO MEMBERS: RICHARD FORDYCE, DEPT. OF AGRICULTURE: Judy Grundler; BOB ZIEHMER, DEPT. OF CONSERVATION: Brent Vandeloecht, SARA PARKER PAULEY, DEPT. OF NATURAL RESOURCES: Joe Engeln; DEAN THOMAS PAYNE, UNIV. OF MISSOURI: David Baker

ADVISORY MEMBERS PRESENT: SOIL AND WATER CONSERVATION PROGRAM: Colleen Meredith; NATURAL RESOURCES CONSERVATION SERVICE (NRCS): J.R. Flores; MISSOURI ASSOCIATION OF SOIL AND WATER CONSERVATION DISTRICTS (MASWCD): Kenny Lovelace;

STAFF MEMBERS PRESENT: Lori Bax, Van Beydler, Jim Boschert, Theresa Mueller, Jeremy Redden, Darlene Schaben, Colette Weckenborg, Bill Wilson

OTHERS PRESENT: DISTRICTS: CARTER: Michael Kelley; HOWARD: Beverly Dometorch; JEFFERSON: George Engelbach; MORGAN: Abbey Kempker, Patty Wittrock; BATES: Brad Powell; MISSOURI DEPARTMENT OF AGRICULTURE: Chris Klenklen; MISSOURI DEPARTMENT OF NATURAL RESOURCES: Kurt Boeckmann, Todd Sampson; NATURAL RESOURCES CONSERVATION SERVICE MISSOURI: Dick Purcell; SOIL AND WATER CONSERVATION DISTRICT EMPLOYEES ASSOCIATION (MSWCDEA): Sandy Stratman; UNIVERSITY OF MISSOURI: Randy Miles; Dr. Josh Millsbaugh; OTHER: MCGA/MOSOY: Darrick Steen

A. CALL TO ORDER

Chairman Gary Vandiver called the meeting to order in Sedalia, Missouri, at 1:03 p.m. Thomas Bradley, H. Ralph Gaw, Jeff Lance and Gary Vandiver were present, which made a quorum.

B. MINUTES OF THE LAST MEETINGS

H. Ralph Gaw made a motion to approve the minutes of December 15, 2014, June 17, 2015 and August 3, 2015 Commission Meetings. When asked by the Chair, Thomas Bradley, H. Ralph Gaw, Jeff Lance and Gary Vandiver voted in favor of the motion and the motion carried unanimously.

MINUTES--MISSOURI SOIL & WATER DISTRICTS COMMISSION

August 19, 2015

Page 2

C. DEPARTMENT OF NATURAL RESOURCES

1. Kurt Boeckmann presented a brief update on the Regional Conservation Partnership Program (RCPP). He report that they are in the first year of RCPP. The three areas have a total of seven watersheds. The landowners have signed up for EQIP and the contracts should be awarded as soon as funding is available. He stated they anticipate next fall will be sign up for the second year of RCPP. He pointed out that in the second year there will be different watersheds chosen.
2. Joe Engeln reported that the documents for the Natural Resource Damages (NRD) projects in Southeast and Southwest Missouri have been received. For the southwest project area of Spring River, the award is \$500,000 to support cost-share programs, for riparian corridor and for groundwater quality. The southeast project is \$250,000 in the Big River watershed.

He report the first Nutrient Trading meeting had taken place and the goal is to have the framework for trading developed by early next year. The idea is to have some pilots started in some communities that have shown interest.

He informed the Commission that the department is continuing to work on "Lean" E3 (Enhancing Efficiency and Effectiveness) efforts. Department employees have supplied ideas for processes for this effort. One of the processes to be reviewed is the hiring process; another is the grant process.

He reported the department had completed its Strategic Framework and the public version will be available in September. He stated that the Commission will be provided with the information.

D. SOIL AND WATER CONSERVATION PROGRAM DIRECTOR'S COMMENTS

1. **Fiscal Year 2015/2016 Budget Update**
Colette Weckenborg presented Fiscal Year (FY) 2015/2016 budget update. She reported the Cost-Share Grant had an appropriation of \$31,000,000, with \$24,431,632 or 79 percent spent. She pointed out the Special Area Land Treatment (SALT) projects will end in FY16 as well as current Mississippi River Basin Healthy Watersheds Initiative (MRBI) projects that are being provided match for monitoring. The District Grants had an appropriation of \$11,680,570 and \$11,496,100 or 98 percent was spent. Ms. Weckenborg covered the remaining FY15 expenditures. The total FY15 appropriation was \$49,135,698 and \$39,517,714 or 80 percent was spent.

Next, Ms. Weckenborg presented the FY16 budget of \$49,200.23. She stated it was very similar to the FY15 budget.

2. **Fiscal Year 2016 Cost-Share/SALT Fund Status**
Bill Wilson presented the FY16 Cost-Share/SALT Fund Status. As of August 17, 2015, approximately \$30 million has been allocated and of that amount,

MINUTES--MISSOURI SOIL & WATER DISTRICTS COMMISSION

August 19, 2015

Page 3

approximately \$9.5 million has been obligated and \$985,817 paid to landowners. He stated this amount did include the first supplemental that was sent out on August 7, 2015. He pointed out the supplemental allocated approximately \$2 million to 43 districts and the next supplemental will be on September 3, 2015. For FY16 SALT cost-share, \$110,396 has been allocated, \$50,110 obligated and zero paid to landowners.

3. 2015 Area Meetings Update

Bill Wilson presented an update on the 2015 Area Meetings scheduled for the week of August 24, 2015. He covered the dates, times and locations for each of the eight meetings.

4. Report on National Conservation Foundation (NCF) Envirothon

Bill Wilson presented an update on the NCF Envirothon that was held in Springfield, Missouri on the Missouri State University Campus during the week of July 27, 2015. There were 260 students from 44 states, seven Canadian provinces and one Canadian Territory. Pembroke Hill High School from Jackson County, Missouri took first place and the members of the team received a \$3,000 scholarship provided by Smithfield Foods Inc. For this week long event there were more than 150 volunteers. Next year's competition will be in Ontario, Canada during the week of July 24, 2016.

Mr. Wilson reported that Judy Stinson and Peggy Lemons were inducted into the Envirothon Hall of Fame. Both have been co-chairs for the Missouri Envirothon for 17 years and have held positions on the national board.

Sandy Stratman presented some pictures that were taken during the event. The theme for the Envirothon was Welcome to Oz. She thanked Van Beydler for the pictures of the teams. She covered the schedule for the event and pointed out that Smithfield Foods Inc. is planning to continue as a sponsor of the Envirothon.

5. Staff Updates

Jim Boschert reported that the program had hired two district coordinators, Tammy Cody and Jacob Wilson.

6. Soil Health Assessment Center Update

Dr. Randy Miles presented an update on the Soil Health Assessment Center (SHAC). The Center is committed to good science, quality assurance and quality control and to be relevant. SHAC is working on the biological assessments from a soil health point of view. He reported that Phase I and II of the building construction are complete; Phase III will likely be completed later this year. Dr. Miles provided some pictures of the completed portions of the facility. He stated that there have been 174 samples submitted to the lab as of this meeting, and he is expecting a lot more. He showed the soil sample form submitted for cover crops, and the first round of samples submitted will be used for developing a database. After a field has been in cover crops for 3-4 years, a new soil sample will be done to see the changes in the soil health. He pointed out they are working educational

programs and are trying to be adaptable, meet customer needs, and provide additional information as needed.

Dr. Miles introduced Josh Millspaugh the Interim Director in the School of Natural Resources. Dr. Millspaugh thanked the commission for the opportunity to be at the meeting. He appreciated the work done in developing the Soil Health Assessment Center and sees huge benefits and relevance of the work being completed.

E. REQUEST

1. **Daviess and DeKalb SWCDs – Request to Develop a Heavy Use Protection Area Included with a N574 Spring Development Practice**

Jeremy Redden presented the Daviess and DeKalb SWCDs request to develop a heavy use protection area included with a N574 Spring Development practice due to the topographical issues at the tank locations. He stated the heavy use area components have not been utilized with the N574, but the heavy use areas have been used in Grazing System and WQ10 Stream Protection practices as stream crossings and with DWC-1 Grade Stabilization Structure (ponds) as a limited access watering point. Eligible components used for the N574 are: spring collection points (box or perforated tile), one distribution point (watering facility or tank), exclusion fence, trenching/backfill and pipe from collection point to outlet. Background information was provided on both requests. In both locations, a boundary or interior fence is nearby, slopes are naturally graded preventing the watering facility from being placed on dry solid ground at a low enough elevation below the spring for water to gravity feed into the tank, the water facilities have been designed in the only possible location for the proper elevation change and access to the tanks will be muddy due to being in low areas.

Mr. Redden stated the Daviess landowner's total estimated cost of the N574 without the heavy use components is \$3,552.51; the total estimated cost with a variance to include the heavy use area is \$4,333.64 and the landowner would receive \$3,250.23 for cost-share. The DeKalb landowner's total estimated cost of the N574 without the heavy use components is \$2,597.27; the total estimated cost with a variance is \$3,064.78 and the landowner would receive \$2,298.58 for cost-share. There were maps presented and reviewed for both of the designs.

After discussion, Jeff Lance made a motion to allow a one-time variance so Daviess and DeKalb SWCDs can provide cost-share to Mr. and Mrs. Cotton and Mr. Leibrant for a heavy use area due to the location of the watering facility to provide adequate access to the tanks. In addition, require both landowners to fence the area between the heavy use area and the spring to further protect the area and to insure that cattle are utilizing the heavy use area. H. Ralph Gaw seconded the motion. When polled, Jeff Lance, H. Ralph Gaw, Thomas Bradley and Gary Vandiver voted in favor of the motion and the motion carried unanimously.

MINUTES--MISSOURI SOIL & WATER DISTRICTS COMMISSION

August 19, 2015

Page 5

2. **Butler SWCD – N430 Irrigation Water Conveyance Request for Second Payment**

Jim Boschert presented a request from Butler SWCD on an N430 Irrigation Water Conveyance for a second payment. On March 23, 2015, the Butler SWCD Board approved contract IM 046-15-0082 for an N430 practice with an extent approved for 375 feet of 12 inch pipe. On April 7, 2015, the board approved a change order reducing the approved extent to 50 feet of pipe. On May 27, 2015, the district checked the crown crossing and determined the landowner installed 62 feet of 12 inch pipe. The board approved a second change order for this contract on June 1, 2015 increasing the extent of pipe to 62 feet as well as approving the contract for payment in the amount of \$498.94.

Mr. Boschert reviewed with the Commission the component cost for underground irrigation pipe and the usage in FY15. There was discussion regarding the component cost since it varied depending on the footage installed; commissioners indicated that this should be reviewed when developing the state average cost list. He pointed out that on this contract the engineering plans showed the crossing was planned for 50 feet. Since 50 feet was in the engineering plans it was considered minimum and necessary. The Cost-Share Handbook states: "In instances where a cooperator desires to complete the practice beyond the minimum and necessary extents, the added extents need to be reported on the contract, but will not be used to determine the cost-share assistance to be made available to the cooperator."

After discussion, H. Ralph Gaw made a motion to approve the Butler SWCD Board's request and allow a second payment in the amount of \$1,144.31 for contract number IM 046-15-0082. Thomas Bradley seconded the motion. When polled, H. Ralph Gaw, Thomas Bradley, Jeff Lance and Gary Vandiver voted in favor of the motion and the motion carried unanimously.

Gary Vandiver welcomed the Director of Natural Resources Sara Parker Pauley. Ms. Pauley thanked David Baker, of the University of Missouri for his years of service and his leadership on the Soil and Water Districts Commission. She presented him with a plaque from the department and Soil and Water Districts Commission and a poster to celebrate his retirement. Mr. Baker first began serving on the Commission in 1999.

Mr. Baker thanked the Commission and the partners for all of the good work that has been accomplished, and has cherishing his time on the Commission.

Gary Vandiver, on behalf of the Commission, thanked Mr. Baker for his partnership and for being a mentor.

F. **REQUEST (Continued)**

3. **Reconstruction Policy for Disaster Declaration FEMA 4238 DR**

Bill Wilson reported that a disaster declaration was approved as a result of prolonged flash flooding and severe storms across the state from May 15 to July 27 and it involved 68 counties. He stated the Commission has a

reconstruction policy that states: "Reconstruction assistance is available for practices that failed during the maintenance life of the practice. Districts must request cost-share if a single storm event causes widespread failure of state cost-shared structural practices. The request must document the seriousness and the extent of the damage, along with estimates of cost for repairs. The request to provide assistance for reconstruction must be approved by the Commission before the board approves the contract. The district must attach a copy of the approval letter to the Documents section of the MoSWIMS contract." He stated the program is anticipating requests for assistance in those counties due to the storm events. The request is to give a blanket approval to the 68 counties in the FEMA-4238-DR disaster declaration to provide assistance with reconstruction of soil and water conservation practices currently under maintenance agreement that were damaged from severe storms, tornadoes, straight-line winds and flooding between May 15, 2015 and July 27, 2015.

After discussion, H. Ralph Gaw made a motion to support the August 8, 2015, major disaster declaration FEMA-4238-DR and assist with reconstruction of soil and water conservation practices currently under a maintenance agreement that were damaged from severe storms, tornadoes, straight-line winds and flooding during the period of May 15 to July 27, 2015 in eligible counties designated in this declaration and subsequent declarations. Jeff Lance seconded the motion. When polled, Thomas Bradley, Jeff Lance, H. Ralph Gaw and Gary Vandiver voted in favor of the motion and the motion carried unanimously.

G. APPEALS

1. **Worth County Landowner Appealing Board's Request for Repayment of Cost-Share Funds Received on a DSL – 44 Terrace System with Tile**

Jeremy Redden presented a Worth County landowner's appeal against the board's request for repayment of \$7,580.16 for cost-share funds received on a DSL-44 Terrace System with Tile. Mr. Redden stated the landowner believed he had made a good faith effort in fulfilling the obligation for repairing the practice. Letters and photos were sent to the Commission on June 14, 2015 and August 12, 2015, as well as a letter from the Worth SWCD dated July 14, 2015, asking the Commission to support their decision to require prorated repayment on the terraces for a maintenance violation. Mr. Redden provided background information to the Commission and a timeline on the several reseeding attempts of the terraces by the landowner since the terraces constructed were paid on June 8, 2012 in the amount of \$9,475.36 with a 10-year maintenance life. The landowner stopped by the district office on April 24, 2015, to report the seedbed had been prepared and seed had been broadcasted for the fourth time. The final field visit was completed by NRCS on May 8, 2015, and the project did not meet NRCS standards and specifications. On May 12, 2015, the landowner was sent a final letter requesting repayment of \$7,580.16 due to the maintenance violation.

Mr. Redden provided photos that were taken on May 8, 2015, of the practice. These pictures were used to determine that there was a maintenance violation.

MINUTES--MISSOURI SOIL & WATER DISTRICTS COMMISSION

August 19, 2015

Page 7

After discussion, H. Ralph Gaw made a motion to uphold the Worth County SWCD board's request to obtain repayment of the DSL-44 Terrace System with Tile practice by maintaining current policy and requesting that the landowner repay the prorated amount of \$7,580.16. If the payment has not been received within 30 days then the matter will be referred to the Attorney General's Office for collection. Jeff Lance seconded the motion. When polled, Jeff Lance, H. Ralph Gaw, Thomas Bradley and Gary Vandiver voted in favor of the motion and the motion carried unanimously.

H. REPORTS

1. **Natural Resources Conservation Service (NRCS)**

J. R. Flores presented the NRCS report. The State Technical Committee met on June 30, 2015. One of the biggest issues discussed was the livestock funding in the Environmental Quality Incentives Program (EQIP); 60 percent of all EQIP funds must go toward livestock practices by statute. Some on the technical committee want the majority of the funding to go toward cow/calf operations and others want more funds to go toward animal waste. He stated that a decision would be made soon and forwarded to the committee. He reported that funding in 2015 for their general EQIP was good; they had a significant increase from the previous year. The Regional Conservation Partnership Program was a huge success with over 300 applications which are in the preapproval process. Mr. Flores stated there will be a sign up for 2016. Missouri was allocated 118,500 acres for the Conservation Stewardship Program with 91 percent of the funds obligated. In the Voluntary Public Access Habitat Approval Program, NRCS provided MDC with \$1,096,000 for the program. The State Conservation Innovative Grants allocated \$100,000; applications have been received and the University of Missouri had the top two applications and is going to be funded. The Emergency Watershed Protection (EWP) is based on the FEMA declarations. The EWP must be sponsored by a public entity and it covers from May 15, 2015-July 27, 2015. He stated that NRCS will be accepting applications from sponsors in eligible counties. Some of the work that will occur will be to repair bridges, streambank stabilization, drainage ditch clean out, levees, etc. He stated that it has been approved, but the funding is not available yet and will require a special appropriation from Congress.

2. **University of Missouri**

Dave Baker stated there is a group of federal and state partners to discuss the wet weather conditions statewide and what programs and assets are available. The MU Extension has a webpage with 50-60+ questions and answers regarding the weather conditions and impacts to crops and livestock. Multiple changes will be made at the University with approximately 130 faculty members leaving at the end of the month. A new director will be hired for Extension. Mr. Baker is working with Tom Henderson, Interim Director, on the budget and working on future direction of Extension in the state. Mr. Baker thanked the Commission and the partners for all the work that has been done as a partnership.

3 Department of Conservation

Brent Vandeloecht presented the Department of Conservation report. He reported that MDC has conservationists across the state; each has an assignment of two – three counties and they work in the USDA office with district staff and NRCS staff. They made 11,000 sites visits last year, over 600 workshops, and spent approximately \$1.1 million in the Landowner Assistance Program, which is their cost-share program. Their cost-share practices are focused on fish, forest and wildlife practices. On some practices, MDC will piggyback onto SWCD cost-share and provide NRCS with technical assistance on the wildlife planning on CRP practices. He stated they have an MDC CRP Incentives program that spent \$500,000 last year for incentives in addition to those established for certain CRP practices. The program also provides increased incentives for landowners to keep the CRP in good shape for wildlife (burning, disking, interseeding legumes, etc.). Since the inception of the program they have provided incentives on 10,665 acres and those incentives are \$100 - \$150 per acre depending on the program. They have completed 170 acres of down-tree structures and edge feathering; 3,435 acres in mid contract management; and 1,700 acres of wood enhancements. In 2015 an additional \$240,000 was approved for CRP incentives, with \$223,000 has already been requested in new contracts. The Voluntary Public Access Habitat Incentive Program is an opportunity for state agencies to apply for funds to have a walk-in hunting program. He reported that Missouri applied for and received a grant for \$1.1 million. He stated the program in Missouri will be called the Missouri Outdoor Recreation Access Program. It will be piloted this fall and they will be working with landowners in areas in north central and southeast Missouri. They will be leasing private land so people can open it up for hunting. There are different payment rates depending on what choices individuals make, such as wildlife viewing only, wildlife viewing and youth hunting, archery or all seasons. He stated the goal is to get 10,000 acres this year in the pilot areas.

Mr. Vandeloecht provided an update on Chronic Wasting Disease (CWD) in northcentral Missouri. They found nine new cases in Macon and Adair and one new case in Cole County. He also provided an update on the feral hog problem. He stated they have killed approximately 3,000 hogs in 2013 and 2014, and so far this year they have killed 1,800. The agency is changing their message on this issue; the idea is to make it illegal to hunt hogs, so that they do not scatter the remaining hogs in the group. They will be asking landowners that have feral hogs to contact MDC or USDA.

4. Department of Agriculture

Judy Grundler reported that Missouri was number one in preventive planted acres; the total acres are 506,039 of corn and more than a million acres of soybeans. She stated that has a huge impact not only on the acres not planted, but for weeds and seed bank of weeds, seed not being planted and seed being stored. She stated this is a huge concern for the economy of the state. She informed the Commission that MDA has a new program called Agriculture Stewardship Assistance Program (ASAP). Applications for this program can be found on the website: www.ASAP.farm. She stated that John Knudsen will be the person at MDA implementing the program. The program is to highlight that Missouri agriculture

MINUTES--MISSOURI SOIL & WATER DISTRICTS COMMISSION

August 19, 2015

Page 9

can be sustainable and responsible. There are six certification categories for this program: grassland, livestock, forestry, farmstead, energy and cropland. The purpose of the program is to acknowledge farmers using sustainable agriculture practices.

Next Ms. Grundler updated the Commission on survey work that has taken place across the state. The Pine Shoot Beetle is in six northeast counties; Emerald Ash Borer is federally regulated in the state since it has been found in other counties of the state; trapping has been completed on Thousand Cankers Disease and no detections were found in the black walnut trees in Missouri; only two Gypsy Moths were captured; Fire Ants in the Joplin area have been cleaned up at this time. She stated they have been working on their pesticide applicator training.

5. Missouri Association of Soil and Water Conservation Districts

Kenny Lovelace reported the next MASWCD meeting is scheduled for September 16, 2015, at 1:00 in the Cole County Soil and Water Conservation District Office. He felt that the Department of Agriculture's ASAP was a good program. He informed the Commission that he had traveled to Washington DC to represent the National Association of Conservation Districts (NACD). He invited the Commission and the table to Tan-Tar-A for the Training Conference in December. He reminded everyone that they are still looking for soil health champion network candidates.

I. SUGGESTED DATE(S) OF THE NEXT MEETING(S)

The next meeting is scheduled for October 14, 2015, at the Boudreaux Visitor Center at the Mark Twain Lake.

J. ADJOURNMENT

H. Ralph Gaw made a motion to adjourn the meeting at 4:03 p.m. Jeff Lance seconded the motion. When asked by the Chair, Thomas Bradley, H. Ralph Gaw, Jeff Lance and Gary Vandiver voted in favor of the motion and the motion carried unanimously.

Respectfully submitted,

Colleen Meredith, Director
Soil and Water Conservation Program

Approved by:

Gary Vandiver, Chairman
Missouri Soil and Water Districts Commission

/tm

