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## REGULAR MEETING and PUBLIC HEARING MINUTES | September 12, 2024

(Action by the SCWMC appears in blue, by the WMWMC in green and shared information in black.  
\*indicates items included in the meeting packet.)

I. A joint meeting of the Shingle Creek Watershed Management Commission and the West Mississippi Watershed Management Commission was called to order by Shingle Creek Chairman Andy Polzin at 12:45 p.m. on Thursday, September 12, 2024, at Plymouth Community Center, 14800 34th Avenue North, Plymouth, MN.

Present for Shingle Creek: David Mulla, Brooklyn Center; Steve Antolak, Brooklyn Park; Burt Orred, Jr., Crystal; Karen Jaeger, Maple Grove; Ray Schoch, Minneapolis; Bob Grant, New Hope; John Roach, Osseo; Andy Polzin, Plymouth; Todd Shoemaker and Katie Kemmitt, Stantec; Troy Gilchrist, Town Law Center; and Judie Anderson, JASS.

Present for West Mississippi: David Mulla, Brooklyn Center; Steve Antolak, Brooklyn Park; Gerry Butcher, Champlin; Karen Jaeger, Maple Grove; John Roach, Osseo; Todd Shoemaker and Katie Kemmitt, Stantec; Troy Gilchrist, Town Law Center; and Judie Anderson, JASS.

Also present were: Ahmed Omer, Brooklyn Center; Mitch Robinson, Brooklyn Park; Randy Bergstrom, Crystal; Derek Asche, Maple Grove; Nick Macklem, New Hope; James Kelly, Osseo; Amy Riegel, Plymouth; Jenna Wolf, Robbinsdale; Mike Sorensen, Minneapolis Park and Recreation Board, and Kayla Westerlund, Trust for Public Land.

### II. AGENDAS AND MINUTES.

Motion by Schoch, second by Jaeger to approve the **Shingle Creek agenda**.\* *Motion carried unanimously.*

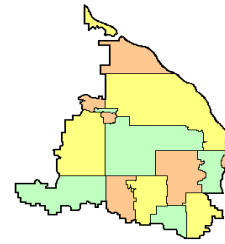
Motion by Roach, second by Butcher to approve the **West Mississippi agenda**.\* *Motion carried unanimously.*

Motion by Schoch, second by Antolak to approve the **minutes of the August 8, 2024, regular meeting**.\* *Motion carried unanimously.*

Motion by Jaeger, second by Butcher to approve the **minutes of the August 8, 2024, regular meeting**.\* *Motion carried unanimously.*

### III. FINANCES AND REPORTS.

A. Motion by Schoch, second by Antolak to approve the Shingle Creek **September Treasur-**



**er's Report\* and claims** totaling \$52,580.04. Voting aye: Mulla, Antolak, Orred, Jaeger, Schoch, Grant, Roach, and Polzin; voting nay: none; absent - Robbinsdale.

**B. Motion by Jaeger, second by Roach to approve the West Mississippi September Treasurer's Report\* and claims** totaling \$14,362.36. Voting aye: Mulla, Antolak, Butcher, Jaeger, and Roach; voting nay: none.

*[The regular meeting was suspended at 12:50 p.m. in order to conduct a public hearing.]*

#### **IV. PUBLIC HEARING.\***

The purpose of this public hearing is to consider the proposed 2024 Capital Improvement Projects (CIPs) and their financing and to take comments from the member cities and the public. There are seven projects:

##### **A. Shingle Creek Projects.**

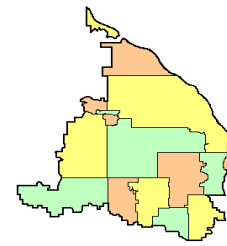
**1. City Cost Share Fund.** This annual project provides cost sharing to retrofit voluntary BMPs on city property. The TAC developed policies and procedures to administer these funds and makes recommendations to the Commission on which projects should be funded. The annual levy is \$100,000, to be matched at least one-to-one by a member city or cities. Applications are open until funds are depleted. The available fund balance in this account at year-end 2024 will be \$397,944.

**2. Partnership Cost Share Fund.** This annual project provides cost sharing to retrofit voluntary BMPs on private property. The TAC developed policies and procedures to administer these funds and makes recommendations to the Commission on which projects should be funded. The annual levy is \$50,000, and funding does not require a match. Applications are open year-round until funds are depleted. The available fund balance in this account at year-end 2024 will be \$158,873.

**3. Maintenance Fund.** This program makes funds available for nonstructural practices such as, but not limited to, rough fish management; invasive aquatic vegetation control; alum treatment touch-up; native aquatic vegetation translocation; and maintenance of Commission-installed projects for which a member City is not specifically responsible.

**4. Brookdale Park Natural Channel Phase 1.** This project would remeander about 5,000 feet of Shingle Creek between a drop structure in Brookdale Park and Xerxes Avenue to improve water quality, enhance habitat, and restore natural form and function. In addition, bank stabilization improvements would be made to about 2,000 feet of Shingle Creek between Xerxes Avenue and Palmer Lake. Levy funding is being phased over multiple years; this is the second year of levying for the project.

**5. Minneapolis Shingle Creek Regional Park.** This project is bank stabilization of Shingle Creek between Webber Park and the Brooklyn Center municipal boundary. Includes bank resloping to eliminate eroded and vertical creek banks, erosion protection at pipe outlets, upland vegetation enhancements, and in-stream features to increase dissolved oxygen and aquatic species. The project will likely be implemented in close coordination with the Minneapolis Park and Recreation Board and the City of Minneapolis, both of which are planning improvements within the same corridor.



**B. West Mississippi Projects.**

**1. City Cost Share Fund.** This annual project replicates no. 1, above, in an annual levy amount of \$50,000, to be matched at least one-to-one by a member city or cities. The available fund balance in this account at year-end 2023 is \$462,747.

**2. Partnership Cost Share Fund.** This annual project replicates no. 2, above, in an annual levy amount of \$100,000. The available fund balance in this account at year-end 2024 will be \$234,813.

**Shingle Creek | West Mississippi 2024 CIP Projects (2025 levy)**

Project	Total Est Cost	City/ Private	Grant	Comm Share	Total Levy
Cost share (city projects)	\$200,000	\$100,000	0	\$100,000	\$106,050
Partnership cost share (private projects)	50,000	0	0	50,000	\$53,025
Maintenance Fund	50,000	0	0	50,000	\$53,025
Brookdale Park Natural Channel Phase 1	625,000	0	0	625,000	662,813
Mpls. Shingle Creek Regional Park	400,000			400,000	424,200
<b>Subtotal</b>	<b>\$1,325,000</b>	<b>\$100,000</b>	<b>\$0</b>	<b>\$1,225,000</b>	<b>\$1,299,113</b>
<b>5% additional for legal/admin costs</b>				<b>61,250</b>	
<b>Subtotal</b>				<b>1,286,250</b>	
<b>TOTAL LEVY (101% for uncollectable)</b>				<b>1,299,113</b>	
Cost share (city projects)	\$100,000	\$50,000	0	\$50,000	\$53,025
Partnership cost share (private projects)	100,000	0	0	100,000	\$106,050
<b>Subtotal</b>	<b>\$200,000</b>	<b>\$50,000</b>	<b>\$0</b>	<b>\$150,000</b>	<b>\$159,075</b>
<b>5% additional for legal/admin costs</b>				<b>7,500</b>	
<b>Subtotal</b>				<b>157,500</b>	
<b>TOTAL LEVY (101% for uncollectable)</b>				<b>159,075</b>	

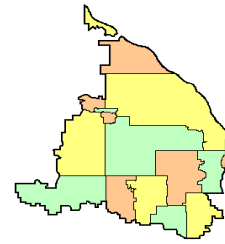
**B. Open Public Hearing.** The public hearing was opened at 12:53 p.m.

No comments on the proposed levy were received from either the member cities or the reviewing agencies. The public hearing was closed at 12:54 p.m.

**C. Commission Discussion.**

It was reported that, at the Technical Advisory Committee (TAC) meeting preceding this meeting, it was agreed by the members to recommend to the West Mississippi Commission that it not levy for the City Cost Share project this year.

Motion by Schoch, second by Grant to approve **Resolution SC2024-01\*** Ordering [the five] 2024 Improvements, Designating Member Responsible for Construction, Making Findings, and Certifying Costs to Hennepin County Pursuant to Minnesota Statutes, Section 103B.251. *Motion carried unanimously.*



Motion by Butcher, second by Jaeger to approve **Resolution SC2024-01\*** Ordering [the Partnership Cost Share Project] Pursuant to Minnesota Statutes, Section 103B.251. *Motion carried unanimously.*

Motion by Schoch, second by Grant to approve the Cooperative Agreement with the City of Brooklyn Park for the Brookdale Park project and the Cooperative Agreement with the City of Minneapolis for the Shingle Creek Regional Park project at such times as the agreements are prepared. *Motion carried unanimously.*

*[The regular meeting resumed at 12:56 p.m.]*

**V. OPEN FORUM.**

Mulla reported that a team of University of Minnesota researchers and educators led by Nikos Papanikolopoulos, Junaed Sattar, David Mulla, and Margo Bowerman are conducting a project funded by the Environmental and Natural Resources Trust Fund (ENRTF) as recommended by the Legislative Citizens Commission on Minnesota Resources (LCCMR) to help middle school students and their teachers **use immersible robots to measure water quality in lakes**. Participants will learn about lake water quality issues by assembling and deploying low-cost robotic sensing systems to measure water quality in over 30 lakes across Minnesota. One team will be focused on Lower Twin Lakes. Teams will be able to compare their measurements with data collected by other participating teams, creating informative summaries of lake water quality across the state. These activities promote the democratization of environmental data collection and lower the barriers to entry, enabling young citizens to study and learn to care for Minnesota’s lakes.

Here is a link for more information.

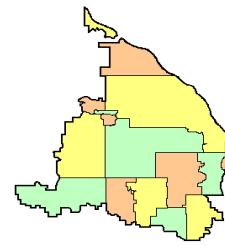
<https://can01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.kare11.com%2Farticle%2Fnews%2Flocal%2Fkare11-extras%2Faquatic-robot-water-quality%2F89-e7dfef16-35cf-44c6-96ce-c519e1cd29f1&data=05%7C02%7Ctodd.shoemaker%40stantec.com%7Cae057fcae1b349f674b408dcd10b588%7C413c6f2c219a469297d3f2b4d80281e7%7C0%7C0%7C638628311065185248%7CUnknow%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjojV2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0%3D%7C0%7C%7C%7C&sdata=uKSfEqPGJ2NfPc5zzhzaYM5ziislmsGBJqE4t4Ou3mY%3D&reserved=0>

**VI. OLD BUSINESS.**

**VII. NEW BUSINESS.**

**Project Review WM2024-01 Northpark Business Center Buildings 12 and 13, Brooklyn Park.** Construction of two 210,000 SF speculative office warehouse buildings and associated truck dock areas, passenger vehicle parking, landscaped areas, underground utilities, and stormwater management areas on a 27.5-acre site located in the northwest quadrant of Xylon Avenue North and Oxbow Creek Drive within the ongoing Northpark Business Center development. Following development, the site will be 68 percent impervious with 18.7 acres of impervious surface, an increase of 18.7 acres. A complete project application was received on September 3, 2024.

Commission rules require the site to abstract 1.1 inches of runoff from new and reconstructed



impervious area within 48 hours. The new and reconstructed impervious area on this site is 18.7 acres, requiring infiltration of 1.7 acre-feet within 48 hours. The applicant proposes an infiltration basin that has the capacity to infiltrate the required volume within 48 hours. The applicant meets Commission volume control requirements.

To comply with the Commission’s water quality treatment requirement, the site must provide treatment so there is no net increase in TP or TSS from pre- to post-development land cover. Meeting the infiltration requirement is considered sufficient to provide a similar level of treatment. The applicant has met the infiltration requirement. The applicant meets Commission water quality treatment requirements.

Commission rules require that site runoff is limited to predevelopment rates for the 2-, 10-, and 100-year storm events. The site is landlocked with no outflow. The applicant meets Commission rate control requirements.

The erosion control plan includes a rock construction entrance, perimeter silt fence/biolog, silt fence surrounding detention ponds/infiltration basins, a sediment basin, inlet protection, rip rap at inlets, and native seed specified on the pond slopes. The erosion control plan meets Commission requirements.

The National Wetlands Inventory does not identify any wetlands on site. The applicant meets Commission wetland requirements. There are no Public Waters on this site. The applicant meets Commission Public Waters requirements.

There is no FEMA-regulated floodplain on this site. The low floor elevations of the buildings are at least two feet higher than the high-water elevation of the detention ponds/infiltration basins according to Atlas 14 precipitation. The applicant meets Commission floodplain requirements.

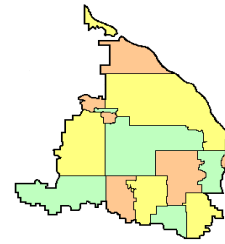
In a telephone conversation on May 29, 2014, between Erik Megow of Wenck Associates and Dan Bowar of EVS Engineering, Mr. Bowar had stated that there is no known groundwater contamination on the project site. The site is located in a Drinking Water Management Area but is outside of the Emergency Response Area. Therefore, infiltration is permitted, but infiltrated water must first filter through one foot of soil, the top four inches of which are amended topsoil, and the bottom 8 inches of which are tilled. The applicant meets Commission drinking water protection requirements.

Public hearings for the project were conducted on November 9, 2022, with the City Planning Commission and November 11, 2022, with the City Council. The applicant meets Commission public notice requirements.

An Operations & Maintenance (O&M) agreement between the applicant and the City of Brooklyn Park was submitted and executed for previously constructed stormwater ponds and basins.

Motion by Antolak, second by Mulla to advise the City of Brooklyn Park that Project 2024-01 is approved with three conditions:

1. Demonstrate by double ring infiltrometer or witness test that the site can meet the design infiltration rate of 6.7 inches/hour.
2. Update as necessary the existing Operations & Maintenance (O&M) agreement between the applicant and the City of Brooklyn Park to include the pond and infiltration basin on the Buildings 12



and 13 site.

**3.** The Commission encourages Scannell Properties to implement chloride management on the Buildings 12 & 13 site. The previous Commission project review (Building 11) advised Scannell to complete and implement a chloride management plan across the Northpark Business Center.

*Motion carried unanimously.*

## **VIII. WATER QUALITY.**

**A. Inventory of Previous Subwatershed Assessments.** This item was tabled.

**B. Brooklyn Center/Brooklyn Park Subwatershed Analysis.** Minnesota Department of Transportation (MnDOT) reconstruction of the Highway 252/Interstate 94 corridor in 2029 may present an opportunity to increase and improve stormwater management within the cities of Brooklyn Center and Brooklyn Park. The 252/94 corridor stretches from 4th Street in Minneapolis north to Highway 610 in Brooklyn Park with more than half of the corridor within the West Mississippi Watershed. MnDOT will be responsible for managing stormwater within the highway corridor right of way according to West Mississippi Watershed Management Commission (WMWMC) standards. Outside of the corridor, however, there may be opportunities to implement stormwater practices that could be constructed concurrently with the MnDOT project.

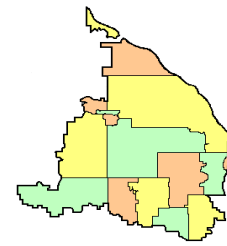
Staff's September 4, 2024, memo\* introduces a potential subwatershed assessment (SWA) for up to five subwatersheds that drain from the cities of Brooklyn Center and Brooklyn Park into the 252/94 corridor. Staff requested the TAC's feedback on the merits of this study. If there is TAC support, Staff will draft a detailed proposal for future TAC and Commission consideration. Preliminary considerations for this SWA are listed below.

**1.** Corridor storm sewer crossings. Staff reviewed City of Brooklyn Center storm sewer lines and estimates there are five primary crossings of the 252/94 corridor. A subwatershed assessment could be conducted for each primary crossing. Alternatively, an initial pollutant loading evaluation could be conducted to determine and rank pollutant loading (i.e., total phosphorus and/or total suspended solids). The top one or two subwatersheds could then proceed to the more detailed subwatershed assessment phase. The number of primary crossings in Brooklyn Park is not known at this time.

**2.** A complex drainage system. Staff history and recent review of the Brooklyn Center storm sewer lines indicates a complex storm sewer network drains to many of the five primary crossings in Brooklyn Center. A key step in the subwatershed assessment will be to work with city and MnDOT staff to ensure drainage directions and connections are understood and accurate.

**3.** Existing TSS removal at Topgolf (WM2007-02). The WMWMC previously approved a regional sediment removal device at the current Topgolf facility. This device was approved before the Commission volume control standard and has been installed for approximately 15 years. The SWA could include review of device maintenance and options to add volume control in the subwatershed.

At the August Commission meeting, Staff reported that West Mississippi has an "assigned fund" dedicated to completing subwatershed assessments. The fund balance is \$40,000 and could be



used to fund the SWA. If additional funds are needed, the WMWMC has a “grant match” assigned fund that could be re-assigned to fund the SWA.

**IX. GRANT OPPORTUNITITES.**

Trust for Public Land submitted a Partnership Cost Share Program application on behalf of Brooklyn Center Elementary. The proposed water quality improvements include a raingarden, native prairie, and a micro-forest. Trust for Public Land requests a cost-share amount of \$20,000. The balance in the Partnership Cost Share Fund is \$234,813.

Currently, the three-acre schoolyard is an undesirable space for students due to frequent flooding and its proximity to Highway 100. A partnership between Trust for Public Land and Brooklyn Center Elementary STEAM aims to redesign the existing schoolyard using a nature-based solution led by fourth and fifth grade students in 2022. This redesign includes a micro-forest buffer along the highway, native prairie restoration, and a raingarden to reduce flooded play areas.

Stantec has reviewed the preliminary plans and notes the following benefits of the project:

1. Improving water quality by infiltrating impervious area.
2. Community engagement and outreach.
3. Improved usability of the schoolyard space through nature-based solutions.

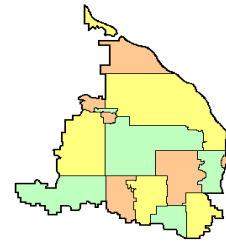
<b>Water quality benefits of proposed project.</b>	Volume Captured (cf)	TSS Reduction (lb/yr)	TP Reduction (lb/yr)	Normalized Cost (\$/lb TP)
Raingarden	2,350	318	1.7	\$392

Stantec recommends approval with the following conditions:

1. Prior to project construction, conduct soil borings or infiltration tests at the proposed basin bottom elevation to ensure ponded depth within basin will draw down within 48 hours. [It has been field verified that the soils are good.]
2. Execute and record an Operations and Maintenance Agreement prior to release of any funds.

At the TAC meeting held prior to this meeting, the members recommended approval of this application with the amount to be determined based on TAC and Commission discussion. Trust for Public Land originally requested cost share related to just the rain garden. A TAC member inquired whether the other improvements (micro forest, native prairie/turf conversion) were also eligible for cost share, which they are. Shoemaker reviewed the engineer’s estimate and determined they would be eligible for up to the \$50,000 cost share

Motion by Mulla, second by Antolak to approve this application in the amount of \$50,000. *Motion carried unanimously. [A revised application in that amount was received September 19, 2024.]*



**X. EDUCATION AND PUBLIC OUTREACH.**

**A. Grace Barcelow’s September update.** Below is a brief update on work completed since the August 13, 2024, WMWA meeting:

1. Released media kit about best fall lawn care practices. This media kit has information to help residents improve practices on their properties to reduce leaves going into storm drains during the fall season and encourages residents to sign up for the Adopt-a-Drain program.
2. Completed outreach and planning efforts for Fish Lake and Eagle Lake workshops. Workshops will be hosted September 5 and 10 from 6pm - 8pm at the Fish Lake Pavilion building. (See Item A., above.)
3. Continued work on Southgate Apartment complex project, notably hosting third engagement event to show residents preliminary designs for the property.
4. Edited outreach materials for BCWMC (Bassett Creek) project.

What work will be happening before the October WMWA meeting?

5. Continue outreach to involve middle school classrooms in Adopt-a-Drain K12 program throughout WMWA watersheds.
6. Complete Eagle and Fish Lake workshops and begin consultations.
7. Welcome and on-board Green Corps member, who is starting mid-September and who will be supporting WMWA work.
8. Begin outreach for BCWMC project.
9. Continue work to complete designs for the Southgate Apartment project in Bloomington.
10. Create October media kit. This media kit will promote Smart Salting trainings and give tips on residential BMPs that reduce chloride use.

**B. West Metro Water Alliance (WMWA)** will meet via Zoom at 8:30 a.m., October 8, 2024.

**XI. COMMUNICATIONS.**

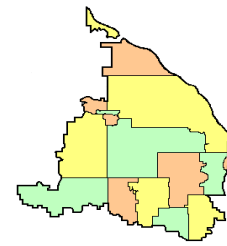
**A. September Communications Log.\*** No items required action.

**B. September Staff Report.\***

**1. Blue Line LRT Stormwater Management.** Staff met with design team staff on August 22, 2024, to discuss specific stormwater management opportunities along the corridor and rule interpretation/implications. Design team has created an XP-SWMM model that may cover approximately 20% of the southern half of the West Mississippi Watershed. When model is submitted for review and finalized, the Commission may want to expand this model to cover the entire watershed.

**2. John Gulliver and his team at the U of M were successful in being funded by the Legislative-Citizen Commission on Minnesota Resources (LCCMR) to work on the project Road Salt**





**Pollution of Surface Waters from Groundwater.** (The SCWMC provided a letter of support to their application.) The study includes developing and running computational models of shallow groundwater to surface water flow and chloride concentration. The goal is to be able to predict the length of time before chloride on the surface becomes chloride in our streams and lakes. The study will conclude in June 2027.

The research team is looking for a stream reach with sufficient data to do a good job of calibrating a model, where they would need minimal supplemental data that we would need to acquire. Staff suggested these reaches of Shingle Creek:

a. TH 100 to the Queen Ave. bridge, which is the USGS gage location. There is an established chloride/conductivity curve for that site, and the USGS measures continuous conductivity. Further, James Fallon and the USGS may have unpublished data in that location that could be helpful.

b. Humboldt to Dupont. Shingle Creek WMC monitoring location SC-0 is in the middle of that reach. It's very urbanized (i.e. significant salt application), and we've got a long dataset but is not as detailed as the USGS site.

There will be monthly Zoom meetings on the project, and the team welcomes SCWMC staff to attend.

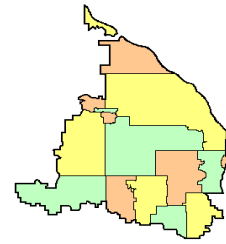
3. **Eagle and Pike Lakes Internal Load Management.** The alum treatments on Eagle and Pike Lakes have been tentatively scheduled for the week of October 21. The shoreline restoration workshop hosted by MetroBlooms was held Tuesday, September 10.

4. **Accelerated Implementation Grant for a joint Chloride Management Plan.** Stantec hosted a virtual working group meeting to get feedback on desired content and outcomes of a joint chloride management plan. Staff submitted the attached proposal\* to the Clean Water Fund Accelerated Implementation Grant program. Awards will be announced after the December Board of Water and Soil Resources Board meeting.

5. **Brookdale Park Shingle Creek Remeander and Enhancement.** Staff has begun background research to evaluate funding sources and their potential applicability for this project. We will be setting up an initial partner discussion meeting in the coming weeks with City of Brooklyn Park, Three Rivers Park District and MnDNR.

6. **Colorado Infiltration Trench Feasibility Study.** Staff has completed review of the soil data and completed the general slope stability modeling process. They are currently reviewing side-slope support concepts and updating the stability model as necessary. They will begin preparation of the draft feasibility report in the next few weeks.

7. **Mississippi River Bank Stabilization Study.** Stantec is reviewing the data collected earlier this summer and developing some standard stabilization and alternatives, including design details for toe stabilization, vegetative stabilization, and hard armoring. Stantec will be coordinating with Hennepin County and Brooklyn Park to engage residents to gather feedback from the design alternatives



and will reach out to two of the 11 residents to collect survey data to complete two 30% designs incorporating some of the alternatives identified.

8. WMWA and Hennepin County are working with MetroBlooms on **shoreline workshops** for Eagle Lake (Shingle Creek) and Fish Lake (Elm Creek). Workshops occurred on September 5 (Fish) and September 10 (Eagle). Up to 10 participants per lake will be eligible for technical design and assistance and a small stipend to defray implementation costs.

9. **Upcoming conferences and project updates** are outlined on the last two pages of the report.

## XII. OTHER BUSINESS.

There being no further business before the Commissions, the joint meeting was adjourned at 1:51 p.m.

Respectfully submitted,

Judie A. Anderson  
Recording Secretary  
JAA:tim

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