



**Title:** Authorization to Renew GIS and WISKI Maintenance and License Agreements

**Resolution number:** 23-016

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**Recommended action:** Staff seeks Board’s approval to renew GIS and WISKI software licenses and maintenance

**Schedule:** Date: 4/27/2023 to 4/26/2024– GIS license and maintenance agreement term  
Date: 5/1/2023 to 4/30/2024 – WISKI license and maintenance agreement term

**Budget considerations:** Fund name and code: 1-1003-4250 (IT – Dues and Subscriptions)  
Fund budget: \$92,000.00  
Expenditures to date: \$2,464.18  
Requested amount of funding: \$30,209.22

**Past Board action:** Res # 21-027 Title: Authorization to Renew GIS and WISKI Maintenance Agreements and Licenses  
Res # 22-017 Title: Authorization to Renew GIS and WISKI Maintenance Agreements and Licenses

**Summary:**

The 2017 Strategic Alignment Plan prioritized investment in IT to more effectively implement high impact capital projects and influence policy through deep insights of natural and built environments. These insights are derived from innovative data analysis, possible only through a system of closely connected technology solutions.

Born from this 2017 directive, the District developed a Strategic IT Plan, and is currently executing that plan through the evaluation, selection, implementation, and build-out of technology solutions. The Strategic IT Plan seeks to advance the Minnehaha Creek Watershed District’s (District) ability to leverage data in order to drive decision making. As a result, the District will efficiently capture information that passes through the organization, analyze that information to derive deeper understanding, and to enhance interactions with partners and the public.

In 2019 and 2020, as part of this initiative, the Board approved the purchase and acquisition of a new platform for GIS, and a module to enhance the accessibility of the District’s existing water quality database, WISKI.

Annual costs for these platforms include user license renewals, which are required to leverage various levels of functionality within the software. User licenses provide data access and modification rights, advanced toolsets for analysis, and system administration tools.

Annual costs also include maintenance, which provides benefits that allow the District to maintain its technology investments by keeping software updated, secure and stable. These benefits include access to new features, technical support and new training materials.

Geographic Information Systems (GIS)

In 2019, the District acquired ESRI ArcGIS software to harness, analyze and share spatial data. GIS serves as the central hub through which spatial data is accessed across the organization. GIS provides tools for advanced data analysis to increase understanding of the natural and built environments. GIS is a platform that enhances communication with external partners and the public.

MCWD’s current GIS maintenance and licenses include:

- *ArcGIS Online* – 2 user licenses to share data, maps and applications with the public securely
- *ArcGIS Desktop* – 2 licenses, basic and advanced – software utilized for spatial data creation, advanced analysis, map output. The Basic license provides functionality suitable for most GIS tasks, while the advanced license provides functionality need to administer the platform and central spatial database.
- *ArcGIS 3D Analyst* – toolset for ArcGIS Desktop providing functionality to leverage and analyze 3D spatial data, such as LiDAR.
- *ArcGIS Spatial Analyst* – toolset for ArcGIS Desktop providing functionality to leverage continuous data, such as digital elevation models.
- *ArcGIS Enterprise* – the core platform, including the centralized spatial database, giving users access to GIS data, maps and applications through a web browser.
- *ArcGIS Enterprise Creator* – 3 user licenses providing tools, applications and functionality needed to create, share and deploy maps and applications.
- *ArcGIS Enterprise Field Worker* – 10 user licenses providing tools, applications and functionality needed to collect and edit data in the field.

2023 GIS maintenance and license costs have remained flat compared to 2022. The quote for 2023 maintenance and license renewal for ArcGIS Enterprise, ArcGIS Desktop and ArcGIS Online is summarized in the table below:

<b>Software License</b>	<b>Maintenance Term</b>	<b>Quantity</b>	<b>Unit Cost</b>	<b>Total Cost</b>
ArcGIS Online	4/27/2023 to 4/26/2024	2	\$494.00	\$988.00
ArcGIS Desktop Advanced	4/27/2023 to 4/26/2024	1	\$3,030.00	\$3,030.00
ArcGIS Desktop Basic	4/27/2023 to 4/26/2024	1	\$707.00	\$707.00
ArcGIS 3D Analyst	4/27/2023 to 4/26/2024	1	\$505.00	\$505.00
ArcGIS Spatial Analyst	4/27/2023 to 4/26/2024	1	\$505.00	\$505.00
ArcGIS Enterprise Standard	4/27/2023 to 4/26/2024	1	\$5,050.00	\$5,050.00
ArcGIS Enterprise Creator	4/27/2023 to 4/26/2024	3	\$494.00	\$1,482.00
ArcGIS Enterprise Field Worker	4/27/2022 to 4/26/2023	10	\$345.00	\$3,450.00
<b>Total</b>				<b>\$15,717.00</b>

WISKI

In 2015, MCWD invested in Kisters WISKI database system to store Research and Monitoring’s field collected data. The District also invested in a number of modules that extend the functionality of WISKI, such as KiECO, which provides tools for storing biological data. In 2020, as part of the strategic IT update, the District acquired the KiWIS module that provides wider access to data stored in WISKI for use in other platforms and applications, such as the website or GIS.

MCWD’s current Kisters WISKI database and module maintenance and licenses include:

- *WISKI Annual Maintenance* - the core platform that supports the database
- *WISKI User Licenses* - 4 user licenses for the Kisters WISKI database platform
- *KiWQM Annual Maintenance* - water quality module, supports the water quality database
- *KiWIS Annual Maintenance* - database connection module, supports GIS integration of R&M’s water quality, hydrology, and biology data

2023 WISKI maintenance and license costs have decreased \$460.78 compared to 2022. This decrease is due to the District dropping maintenance for the KiECO ecological data module, as these data have migrated to be stored and accessed through the District’s GIS enterprise geodatabase. The quote for 2023 maintenance and license renewal for WISKI, KiWQM and KiWIS is summarized in the table below:

<b>Software License</b>	<b>Maintenance Term</b>	<b>Total Cost</b>
WISKI Annual Maintenance	5/1/2023 to 4/30/2024	\$3,492.73
WISKI User Licenses (4)	5/1/2023 to 4/30/2024	\$6,986.49
KiWQM Module Annual Maintenance	5/1/2023 to 4/30/2024	\$1,327.67
KiWIS Annual Maintenance	5/1/2023 to 4/30/2024	\$2,689.33
	<b>Total</b>	<b>\$14,496.22</b>

**Supporting documents (list attachments):**

1. Quote from ESRI for annual GIS software licenses and maintenance
2. Quote from Kisters North America for annual WISKI software licenses and maintenance