



Title: Authorization to Purchase Water Monitoring Equipment

Resolution number: 20-012

Prepared by: Name: Brian Beck
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Reviewed by: Name/Title:

Recommended action: Authorization to purchase a new multi-parameter sonde to replace dated equipment.

Schedule: N/A

Budget considerations: Fund name and code: Water Quality-Equipment/Supplies 500-5001-4570
Fund budget: \$227,000
Expenditures to date: \$1,750.51
Requested amount of funding: \$7,698

Past Board action: N/A

Summary:

The Minnehaha Creek Watershed District (District) remains focused on putting high impact capital projects in the ground to improve water quality, enhance ecological conditions, and reduce flooding. To support such projects, research and monitoring staff collect a wide variety of water quality and ecological data that can be analyzed to:

- 1) Diagnose water quality and ecological issues
- 2) Identify project locations
- 3) Inform project design
- 4) Assess effectiveness of projects
- 5) Communicate data driven stories

Collecting these data sets often requires specialized equipment. Most monitoring equipment has a lifecycle of 5-10 year. Currently, two multi-parameter sondes used for water quality monitoring of streams and lakes are over 10 years old, which has resulted in more frequent maintenance and lack of future support from the manufacture. Furthermore, computer advancements in over the past 10-15 years makes it difficult to integrate the sondes with modern technologies that will be utilized in MCWD's IT update. Overall, the lack of support, maintenance issues, and information technology (IT) integration issues has made it clear that new equipment is needed to facilitate day to day monitoring efforts.

Staff have taken time to research brands that offer multi-parameter sondes and are recommending the “Aqua Troll 600” system by In-situ. In-situ is cost effective and offers more features that align with the District’s IT planning efforts; data is logged through a mobile app, eliminating a data processing step entirely and with some additional coding, staff can seamlessly link the data collected in the field to the WISKI database.

At this time, the recommendation is to replace only one of the two sondes so staff can further evaluate if the product meets our expectations and if a second unit is necessary.

Sufficient funds are available in the 2020 R&M budget. Staff is requesting authorization to purchase one Aqua Troll 600 system in an amount not to exceed \$7,698.

Supporting documents (list attachments):

- 1) In-situ quote for Aqua Troll 600



RESOLUTION

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WHEREAS, the Research and Monitoring staff collect water quality and biological data to inform project placement, design, and effectiveness; and

WHEREAS, field data collection often requires specialized equipment; and

WHEREAS, as equipment reaches a 5-10 year lifespan, upgrades or replacement should be considered; and

WHEREAS, the current multi-parameter profiling equipment is ten years old and needs replacing; and

WHEREAS, staff is recommending the purchase of the Aqua Troll 600 system by In-situ; and

NOW, THEREFORE, BE IT RESOLVED that the Minnehaha Creek Watershed District Board of Managers: that the MCWD Board of Managers authorize MCWD district administrator to purchase an Aqua Troll 600 system from In-situ in an amount not to exceed \$7,698.

Resolution Number **20-012** was moved by Manager _____, seconded by Manager _____. Motion to adopt the resolution ___ ayes, ___ nays, ___ abstentions. Date: [Click here to enter a date.](#)

Secretary Date: _____



Quote – Q-46934

In-Situ, Inc.
221 E. Lincoln Avenue
Fort Collins, CO 80524
U.S.A.

Tel: (800) 446-7488
Fax: (970) 498-1598
Email: sales@in-situ.com
Web: www.in-situ.com

Issued By: Angela Lull
Date: December 13, 2019
Quote Valid for 30 days

Sales Manager Rick Struzynski	Customer ID 004017	Payment Terms NET 30 DAYS	Shipping Method	INCO Terms	Final Destination United States Iowa
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Quote To:
Minnehaha Creek Watershed Dist 15320 MINNETONKA BLVD MINNETONKA, Minnesota 55345 United States
Attn:
Kailey Cermak kcermak@minnehahacreek.org (952) 471-0590

Ship To:
Minnehaha Creek Watershed Dist 15320 Minnetonka Blvd Minnetonka, Minnesota 55345 United States
Comments:

Equipment								
Line	Product Description	Part Number	Unit of Sale	Qty.	Unit List Price	Total List Price	Disc.	Customer Total Price
1.	Aqua TROLL 600, Non-Vented 0-30m	0074050	Each	1	\$3,995.00	\$3,995.00	0.00%	\$3,995.00
2.	Aqua TROLL Temperature/Conductivity Sensor	0063460	Each	1	\$795.00	\$795.00	0.00%	\$795.00
3.	Aqua TROLL pH/ORP Sensor	0063470	Each	1	\$675.00	\$675.00	0.00%	\$675.00
4.	Aqua TROLL RDO Sensor (includes RDO-X Cap)	0063450	Each	1	\$995.00	\$995.00	0.00%	\$995.00
5.	Aqua TROLL Sensor Port Plug	0063510	Each	1	\$39.00	\$39.00	0.00%	\$39.00
6.	Aqua TROLL Wiper Port Plug	0064630	Each	1	\$59.00	\$59.00	0.00%	\$59.00
7.	Rugged Twist-Lock Cable, Non-Vented, TPU, No Reel, Twist-Lock, None	0052000-05-01-08-00	100 ft	1	\$449.00	\$449.00	0.00%	\$449.00
8.	Wireless TROLL Com for iOS, Android, and PC (Twist Lock/Cable Connect Version)	0031240	Each	1	\$595.00	\$595.00	0.00%	\$595.00
Subtotal:								\$7,602.00

Quote Total		
<p><i>Tax is not normally quoted due to State & local variability. If you need to have Tax included in this quotation, please contact us.</i></p> <p><i>If your organization is a tax-exempt entity, please email or fax a copy of your tax-exempt certificate to taxcerts@in-situ.com or fax to (970) 498-1598.</i></p> <p><i>Tax rates will be based on delivery address of the order.</i></p>		
	Sales Tax:	\$0.00
<p><i>For further information regarding the Warranty or Terms and Conditions, please refer to our website at http://in-situ.com/terms-conditions/</i></p> <p><i>All quoted product & service prices are in U.S. Dollars unless specifically noted otherwise.</i></p>		
	Shipping:	\$96.00
Total Amount (Excludes Optional Items):		USD \$7,698.00