



Title: Authorization to Purchase Monitoring Equipment

Resolution number: 21-085

Prepared by: Name: Kailey Cermak
Phone: 952-641-4501
kcermak@minnehahacreek.org

Reviewed by: Name/Title: Brian Beck/Program Manager

Recommended action: Board Authorization to Purchase Monitoring Equipment

Budget considerations: Fund name and code: Research and Monitoring Equipment/supplies
Fund budget: \$65,500
Expenditures to date: \$11,514.74
Requested amount of funding: \$21,700

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. On an annual basis staff assess the quantity, age, and condition of the equipment inventory.

Equipment Quantity

Throughout the monitoring season, staff track what equipment is deployed or in reserve. It is important to maintain a reserve supply of each equipment type so staff can (1) test and troubleshoot issues and (2) minimize extensive data gaps. Having backups on hand ensures that staff can immediately replace equipment due to issues such as equipment malfunction, damage, or theft.

Throughout the 2021 field season, staff operated with no backup replacement parts for monitoring systems that are the foundation of our real-time sensor network (RESNET) and project diagnostic and efficacy monitoring efforts. Staff is recommending the purchase of water level sensors, dataloggers, and sensor cables that can replace malfunctioning, damaged, or stolen equipment to minimize data gaps.

Equipment Age

One of the primary causes of equipment failure is due to equipment being used past its anticipated useful life. Water level sensors are equipment commonly used by R&M staff for a variety of applications such as informing dam operations, supporting modeling, and informing project effectiveness. This equipment has an internal, unreplaceable battery with an anticipated useful life of 7 to 10 years. Currently, six water level sensors in R&M's inventory have low remaining battery life and/or are over 10 years old, which places them at a higher risk of malfunction based professional experience. Staff is recommending the purchase of 6 new water level sensors to replace the aging units.

Recommendation

Sufficient funds are available in the 2021 R&M equipment budget. Staff is recommending authorization to purchase replacement or reserve equipment from OTT-Hydromet and In-situ, Inc in an amount not to exceed \$21,700.

Supporting documents (list attachments):

In-situ, Inc. quote

OTT-Hydromet quote



RESOLUTION

Resolution number: 21-085

Title: Authorization to Purchase Monitoring Equipment

- WHEREAS the Minnehaha Creek Watershed District (District) remains focused on implementing projects that improve water quality, enhance ecological conditions, and reduce flooding;
- WHEREAS the Research and Monitoring (R&M) staff collect a wide variety of data to support such projects;
- WHEREAS the data collection often requires specialized monitoring equipment;
- WHEREAS on an annual basis, R&M staff assess the quantity, age, and condition of the equipment inventory;
- WHEREAS maintaining a reserve supply of each equipment type is important to ensure staff can troubleshoot issues and minimize extensive data gaps;
- WHEREAS staff are currently operating with no backup replacement parts for monitoring systems that are the foundation of our real-time sensor network, project diagnostic, and efficacy monitoring efforts;
- WHEREAS staff is recommending the purchase of water level sensors, data loggers, and sensor cables that can be used to replace malfunctioning, damaged, or stolen equipment to minimize data gaps;
- WHEREAS using equipment past its useful life is one of the primary reasons for equipment malfunction;
- WHEREAS water-level sensors are commonly used by R&M staff and this equipment has an anticipated useful life of 7-10 years;
- WHEREAS six water-level sensors in R&M’s inventory have low remaining battery life and/or are over 10 years old, which places them at higher risk of malfunction;
- WHEREAS staff is recommending replacing the six aging units to avoid equipment malfunction;
- WHEREAS staff is recommending the purchase of reserve and replacement monitoring equipment from OTT-Hydromet and In-situ, Inc.;

NOW, THEREFORE, BE IT RESOLVED that the Minnehaha Creek Watershed District Board of Managers authorize the District Administrator to purchase reserve and replacement equipment from In-situ Inc. and OTT Hydromet in a total not to exceed \$21,700.

Resolution Number 21-085 was moved by Manager _____, seconded by Manager _____. Motion to adopt the resolution ___ ayes, ___ nays, ___ abstentions. Date: 12/16/2021

 Secretary Date: _____



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, 2021
Quote Valid for 30 days

Sales Manager Andrew Luessenhop	Customer ID 004017	Payment Terms NET 30 DAYS	Shipping Method FedEx Ground	INCO Terms	Final Destination United States Minnesota
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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 Price	Total Price
1.	Rugged Twist-Lock Cable, Vented, TPU, No Reel, Twist-Lock, None	0052000-01-01-07-00	12 ft	4	\$191.00	\$764.00
2.	Aqua TROLL 200 Level Sensor Range - 11M, 35 ft (15 psig)	0056010	Each	4	\$1,995.00	\$7,980.00
3.	Aqua TROLL 200 Level Sensor Range - 11M, 35 ft (15 psig)	0056010	Each	3	\$1,995.00	\$5,985.00
4.	Rugged Twist-Lock Cable, Vented, TPU, No Reel, Twist-Lock, None	0052000-01-01-07-00	25 ft	3	\$236.50	\$709.50
5.	Aqua TROLL 200 Level Sensor Range - 11M, 35 ft (15 psig)	0056010	Each	2	\$1,995.00	\$3,990.00
6.	Rugged Twist-Lock Cable, Vented, TPU, No Reel, Twist-Lock, None	0052000-01-01-07-00	15 ft	2	\$201.50	\$403.00
Subtotal:						\$19,831.50

Optional						
Line	Product Description	Part Number	Unit of Sale	Qty.	Unit Price	Total Price
7.	2 Year Extended Warranty (Total 4 Year Warranty)	0063060	Each	4	\$270.00	\$1,080.00
8.	2 Year Extended Warranty (Total 4 Year Warranty)	0063060	Each	3	\$270.00	\$810.00
9.	2 Year Extended Warranty (Total 4 Year Warranty)	0063060	Each	2	\$270.00	\$540.00
Subtotal:						\$2,430.00

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>For further information regarding the Warranty or Terms and Conditions, please refer to our website at http://in-situ.com/terms-conditions/</p> <p>All quoted product & service prices are in U.S. Dollars unless specifically noted otherwise.</p>	
Shipping:	\$277.64



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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

Quote – Q-81649

Issued By: Angela Lull
Date: December 13, 2021
Quote Valid for 30 days

Total Amount (Excludes Optional Items): USD \$20,109.14



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Managing your data has never been this easy!

Our intuitive [VuSitu Mobile App](#) allows you to view data from the field on your smartphone or tablet. For long-term or remote sites, integrate In-Situ instruments with our [wireless telemetry systems](#) and cloud-based [HydroVu Data Services](#) for real-time, decision-quality data. Ask your sales rep for more information.



Date	13 Dec 2021
Quotation Number	21-023694
Valid For	60 Days

Bill To:
 Minnehaha Creek Watershed District
 15320 Minnetonka Blvd
 Minnetonka, Minnesota 55345
 kcermak@minnehahacreek.org

Ship To:
 Minnehaha Creek Watershed District
 15320 Minnetonka Blvd
 Minnetonka, Minnesota 55345

XLink500's

No	Part #	Product Description	Qty	Unit Price (USD)	Ext. Price (USD)
1	XLINK500-C6-1	XLink 500 with Global Cat-M1(LTE-M)/NB-IoT	2.0	1,404.94	2,809.88
2	1291-1033	CDMA Antenna - Indoor mount, adhesive back, 12 inch cable, SMA-M Connector	2.0	16.21	32.42
Group Subtotal Price					2,842.30

PLS-C's

No	Part #	Product Description	Qty	Unit Price (USD)	Ext. Price (USD)
3	63.038.001.9050	PLS-C, PRESSURE LEVEL SDI12, 0-4M OTT PLS-C SDI-12 sensor for measuring surface or ground water level/pressure, temperature and conductivity. Measuring Range 0-4m Please order a FAD 4 PF HUMIDITY ABSORBER (63.025.021.4.2) or a FAD 5 HUMIDITY ABSORBER CONNECTION BOX (63.037.025.3.2) as accessories	2.0	2,104.44	4,208.88
4	97.000.033.9.5	PLS/PLS-C PROBE CABLE, METERS (price per meter) Notes: PLS-C 1 of 2: 30m (100')	30.0	5.22	156.60
5	97.000.033.9.5	PLS/PLS-C PROBE CABLE, METERS (price per meter) Notes: PLS-C 2 of 2: 30m (100')	30.0	5.22	156.60
6	63.037.025.3.2	FAD 5 HUMIDITY ABSORBER CONNECTION BOX	2.0	145.87	291.74
Group Subtotal Price					4,813.82

Notes:

Payment Terms	Net 30 w/Approved Credit
Freight Terms	FCA-Free Carrier

USD

Total Price :	7,656.12
Tax :	TBD

Expected Delivery Time	
Sales Tax	Proof of tax exempt status or payment of sales tax is the responsibility of the buyer

Freight :	116.93
Grand Total Price :	7,773.05

If you have any questions or need further information, please don't hesitate to contact me. I look forward to hearing from you soon.

Sincerely,
 Miles Corcoran
 Email: miles.corcoran@otthydromet.com, Phone:
 Prepared by: Miles Corcoran

Terms and Conditions

Advantages of Simplified Shipping and Handling

Safe & Fast Delivery

- Receive tracking numbers on your order acknowledgement
- Hach will assist with claims if an order is lost or damaged in shipment

Save Time - Less Hassle

- No need to set up deliveries for orders or to schedule pickup
- Hach ships order as product is available, at no additional charge, when simplified shipping and handling is used

Save Money

- No additional invoice to process - save on time and administrative costs
- Only pay shipping once, even if multiple shipments are required

Standard Simplified Shipping and Handling Charges

Pricing Effective 8/31/2019

Total Price of Merchandise Ordered	Standard Surface (Mainland USA)	Second Day Delivery (Mainland USA)	Next Day Delivery (Mainland USA)	Second Day Delivery (Alaska and Hawaii)	Next Day Delivery (Alaska and Hawaii)
\$0.00 - \$49.99	\$11.99	\$29.99	\$55.93	\$48.14	\$91.51
\$50.00 - \$149.99	\$19.06	\$56.18	\$106.00	\$80.56	\$153.15
\$150.00 - \$349.99	\$33.48	\$89.32	\$181.94	\$112.71	\$219.36
\$350.00 - \$649.99	\$46.63	\$121.94	\$242.50	\$152.43	\$295.17
\$650.00 - \$949.99	\$58.77	\$127.42	\$266.65	\$157.77	\$297.40
\$950.00 - \$1,999.99	\$73.94	\$157.23	\$332.46	\$187.11	\$362.04
\$2,000.00 - \$3,999.99	\$85.36	\$167.09	\$342.29	\$194.36	\$369.69
\$4,000.00 - \$5,999.99	\$98.96	\$173.55	\$358.82	\$195.26	\$380.35
\$6,000.00 - \$7,999.99	\$116.93	\$197.60	\$408.56	\$215.38	\$415.24
\$8,000.00 - \$9,999.99	\$133.43	\$224.55	\$438.79	\$240.27	\$455.68
Over \$10,000	2% of Net Order Value	4% of Net Order Value	6% of Net Order Value	4% of Net Order Value	6% of Net Order Value

<https://www.otthydromet.com/en/policies/terms-and-conditions-of-sale?origin=footer&c1=policies&c2=terms-and-conditions-of-sale&cli>