

**MEETING DATE:** February 25, 2016

**TITLE:** Authorization to purchase stormwater sampling equipment from Tech Sales Company, and authorization to contract with Wenck Associates for equipment installation services

**RESOLUTION NUMBER:** 16-015

**PREPARED BY:** Michael Hayman & Kailey Kreatz

**E-MAIL:** mhayman@minnehahacreek.org

**TELEPHONE:** 952-471-8226

**REVIEWED BY:**  Administrator  Counsel  Program Mgr. \_\_\_\_\_  
 Board Committee  Engineer  Other

**WORKSHOP ACTION:**

<input type="checkbox"/> Advance to Board mtg. Consent Agenda. action.	<input type="checkbox"/> Advance to Board meeting for discussion prior to
<input type="checkbox"/> Refer to a future workshop (date):_____	<input type="checkbox"/> Refer to taskforce or committee (date):_____
<input type="checkbox"/> Return to staff for additional work.	<input type="checkbox"/> No further action requested.
<input checked="" type="checkbox"/> Other (specify): <u>Final action at February 25, 2016 Board meeting</u>	

**PURPOSE or ACTION REQUESTED:**

Staff is requesting authorization to purchase stormwater sampling equipment from Tech Sales Company in the amount of \$17,393.95, and authorization to contract with Wenck Associates for equipment installation services in the amount of \$8,290.

**PROJECT/PROGRAM LOCATION:**

325 Blake Road Stormwater Management Project

**PROJECT TIMELINE:**

August 2015	Powell Road stormwater diversion project constructed
April 2016	Stormwater monitoring equipment installation for diversion stormsewers
2016-2017	Lake Street stormwater diversion project constructed (in coordination with MCES sanitary sewer project)
2017-2018	Design and construction of stormwater facilities at 325 Blake Road

**PROJECT/PROGRAM COST:**

Fund name and number: Research & Monitoring, 5006; and 325 Blake Road Stormwater Management, 3145  
Current fund balance: \$23,200 in fund 5006; and \$272,827 in fund 3145  
Requested amount of funding: \$17,393.95 from fund 5006 – equipment  
\$ 8,290 from fund 3145 – installation

Is a budget amendment requested? No

Is additional staff requested? No

**PAST BOARD ACTIONS:**

September 22, 2011	RBA 11-085	Authorization to Purchase 325 Blake Road
August 23, 2012	RBA 12-080	Authorization to initiate feasibility
June 13, 2013	Draft Feasibility	No Action Required
June 27, 2013	Public Hearing	No Action Required
July 25, 2013	RBA 13-078	Ordering of 325 Blake Road Stormwater Management
January 23, 2014	RBA 14-005	Authorization to initiate demolition planning
April 24, 2014	RBA 14-029	Authorization to award design contract for Powell Road
July 31, 2014	RBA 14-060	Authorization to submit PFA application
October 23, 2014	RBA 14-086	Approval of Powell Road final design, bid and permit
March 26, 2015	RBA 15-028	Award construction contract for Powell Road

**SUMMARY:**

The 325 Blake Road parcel in the City of Hopkins was purchased by the District in 2011 and is located in the heart of the “Urban Corridor” focal geography area for the Minnehaha Creek Watershed District. The 16.8 acre parcel was strategically acquired by MCWD for purposes of expanding the riparian greenway around Minnehaha Creek and improving area wide stormwater management. Portions of the site not utilized for watershed restoration will be sold for redevelopment to capture a return on the initial investment. The site represents one piece of the District’s larger strategic initiative to (1) improve the quality and manage the quantity of stormwater runoff; (2) enhance the ecological integrity of the stream system; and (3) facilitate broader community goals of public partners including economic development and livability by allowing the restored stream system to be integrated into the developed landscape.

Related to stormwater management in the region, approximately 329.8 acres of land surrounding 325 Blake Road currently drains to Minnehaha Creek, most of which goes untreated. The July 2013 Feasibility Study evaluated options to capture as much “first flush” stormwater runoff from the surrounding watersheds as possible. The Study indicated that phosphorus loads can be reduced 70 to 90 percent by infiltrating and filtering the runoff from the 0.5-inch to 1.25-inch rain events. Analysis of the stormsewer networks concluded that that low flow drainage from approximately 268.3 acres (site plus area stormsewer) could feasibly be diverted to a treatment facility at 325 Blake Road.

In July 2013, the Board of Managers ordered the 325 Blake Road Stormwater Management Project (“Project”), taking advantage of the opportunity to manage approximately 247 acres of area wide stormwater runoff at 325 Blake Road. The project requires the diversion of surrounding urban watersheds into the property, and construction of on site management facilities to receive the runoff. The project includes two primary stormwater diversions – Powell Road and Lake Street – and construction of the on-site infiltration/filtration facilities. These projects are to be phased over a period of years.

Phase 1 of the Project, the Powell Road Diversion, was constructed in 2015 and will remain in standby until the future facilities have been constructed. The Lake Street Diversion is expected to be designed and constructed in 2016 and 2017, coinciding with Met Council’s new sanitary sewer force main project. Finally, the facilities on 325 Blake Road will be designed and constructed in coordination with site demolition and redevelopment (approximately 2017-2018).

The Research & Monitoring department and Planning & Projects department have been working together to develop a pre and post project monitoring plan that will inform project design and establish a strong research baseline for future effectiveness monitoring. Pre-project stormwater collection provides the District with valuable data that can both calibrate the model used to estimate volume and nutrient loads coming from the nearly 330 acres, as well as set the stage for effectiveness monitoring once the future facility has been constructed. Most importantly, these data will inform the design development of the future stormwater facility

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**DRAFT for discussion purposes only and subject to Board approval and the availability of funds.  
Resolutions are not final until approved by the Board and signed by the Board Secretary.**

on the 325 Blake site to ensure that the most effective management practices are incorporated to remove particulate and dissolved phosphorus as well as sediment loads.

Staff is working closely with representatives from Tech Sales and have conducted site inspections to evaluate equipment needs to effectively monitor present day stormsewer discharges at Lake Street and Powell Road. Staff has also been working with Wenck Associates to determine installation needs and assist in permitting and calibration processes.

To reduce equipment costs, the District will repurpose ISCO samplers no longer needed at previous project sites for use at these locations. In order to capture low flow events (less than 1 inch) and provide remote communication to staff, upgraded flow modules and communication modems are needed. The new flow module is able to measure velocity in as little as 1 inch of flow depth, while the communication module has the capability to immediately alert staff when the ISCO sampler has been enabled (via cell phone) and can also be remotely triggered to initiate sampling.

Staff is requesting Board authorization to purchase stormwater sampling equipment from Tech Sales Company, and authorization to contract with Wenck Associates for equipment installation services.

**ATTACHMENTS:**

1. Tech Sales, Co. quotation for equipment
2. Wenck Associates scope of work for equipment installation and support

## RESOLUTION

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**RESOLUTION NUMBER: 16-015**

**TITLE: Authorization to purchase stormwater sampling equipment from Tech Sales Company, and authorization to contract with Wenck Associates for equipment installation services**

WHEREAS, pursuant to its watershed management plan, and Minnehaha Creek subwatershed capital projects 5.8.2 and 5.8.5 therein, the Minnehaha Creek Watershed District (“District”) has worked to develop projects that improve the quality and manage the quantity of stormwater runoff, enhance the ecological integrity of the stream system, and facilitate broader community goals of public partners throughout the urban corridor region of the District;

WHEREAS, the Minnehaha Creek/Lake Hiawatha Total Maximum Daily Load Study identified the area between West 34<sup>th</sup> Street and Meadowbrook Lake as generating the highest pollutant load per unit area when compared to other reaches of Minnehaha Creek;

WHEREAS, the MCWD established the area between West 34<sup>th</sup> Street and Meadowbrook Lake as a priority area for capital project improvements aimed at stormwater improvement, streambank restoration and broader community goals;

WHEREAS, in 2011 the District acquired property at 325 Blake Road for the purposes of stream restoration, stormwater management, corridor improvements, public land expansion and redevelopment opportunities;

WHEREAS, on July 25, 2013, by Resolution 13-078, the Board ordered the 325 Blake Road Stormwater Management Project (“Project”) and authorized the solicitation of engineering services for design and construction oversight;

WHEREAS, the Project requires the diversion of surrounding urban watersheds into the property, and construction of on site management facilities to receive the runoff, and includes two primary stormwater diversions – Powell Road and Lake Street – and construction of the on-site infiltration/filtration facilities that will be phased over a period of approximately three years;

WHEREAS, the Research & Monitoring department and Planning & Projects department have been working together to develop a pre and post project monitoring plan that will inform project design and establish a strong research baseline for future effectiveness monitoring; and

WHEREAS, District staff, with the assistance of supply and installation consultants, has identified feasible stormwater monitoring locations on Lake Street and Powell Road to effectively capture stormsewer discharges prior to design and construction of the final phase of the Project at 325 Blake Road;

WHEREAS, the Research & Monitoring department and Planning & Projects department have determined a shared project cost structure in which funds for the equipment purchase will come from the Research and Monitoring department, and funds for installation and calibration will come from the Project fund;

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NOW, THEREFORE, BE IT RESOLVED, that the District Administrator is authorized to purchase stormwater monitoring equipment from Tech Sales Company in the amount of \$17,395; and

BE IT FURTHER RESOLVED that the District Administrator is authorized, on advice of counsel, to enter into a contract with Wenck Associates for equipment installation services in an amount not to exceed \$8,290.

Resolution Number 16-015 was moved by Manager \_\_\_\_\_, seconded by Manager \_\_\_\_\_.  
Motion to adopt the resolution \_\_\_ ayes, \_\_\_ nays, \_\_\_ abstentions. Date: \_\_\_\_\_.

\_\_\_\_\_  
Secretary

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# Q U O T A T I O N

**Quotation From:**

TECH SALES CO.  
 311 W. 44TH STREET  
 MINNEAPOLIS MN 55409  
**Ph:** (612) 823-8238 **Fx:** (612) 823-4272

**Page:** 1

**Quotation For:**

Minnehaha Creek Watershed  
 15320 Minnetonka Blvd  
 Minnetonka MN 55345  
**Ph:** (952) 471-0590 **Fx:** (952) 471-0682

**Quotation#:** 2160049  
**Revision#:** 2  
**Date:** 02/16/16

**Attn:** Yvette Christianson **E-Mail:** ychristianson@minnehahacreek.org  
**Ref:** Isco Metering Equipment per State Contract#78637

**Please Address Order To:**

TECH SALES CO.  
 311 W. 44TH STREET  
 MINNEAPOLIS MN 55409

**FOB:** Destination  
**Shipment:** 3-4 Weeks ARO  
**Salesman:** Travis DeGroot  
**Validity:** 30 Days  
**Terms:** NET 30 DAYS

Item	Qty	Part#/Description	Unit Price	Total Price
<b>***Flow Meter &amp; Sampler Interface***</b>				
1	2	682050001 Isco Model 2150 Flow Module. Includes Area Velocity Sensor w/33' cable, Also includes instruction manual & coupon for free Isco Open Channel Flow Measurement Handbook.	3,695.50	7,391.00
2	2	602004262 2100 Series Module Mounting Plate. ABS plastic plate for mounting 2100 systems to wall.	114.00	228.00
3	2	605314429 Isco SPA 1429. 2100 non-Isco Battery Connect Cable. Built to length, per foot. Maximum length is 25 feet. For connection of 2100, via bottom connector, to customer supplied deep cycle battery. Not for use with 2108.  Includes 6ft of cable.	247.60	495.20
4	2	682000099 Isco 2105ci CDMA Serial Over IP modem module with dual band magnetic mount antenna. Requires customer-supplied static IP address service contract with Verizon.	2,916.50	5,833.00
5	2	692004584 Y-cable from 2105 to Sampler, 25 ft	251.75	503.50
6	1	683000043 Standard Scissors Ring for 16 inch to 36 inch diameter pipes. Includes base section, scissors mechanism, one pair of 7.5 inch extensions, and one pair of 20 inch extensions.	565.25	565.25
7	1	683000045 Standard Scissors Ring for 45 inch to 49 inch diameter	617.50	617.50

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# Q U O T A T I O N

Page: 2

Quotation#: 2160049  
Revision#: 2  
Date: 02/16/16

Item	Qty	Part#/Description	Unit Price	Total Price
		pipes. Includes base section, scissors mechanism, one pair of 7.5 inch extensions, and one pair of 40 inch extensions.		
8	2	603204029 Sensor carrier for attaching Low Profile Area Velocity Sensor to Isco mounting rings.	47.50	95.00
		<b>***Software &amp; Connect Cable***</b>		
9	1	682540209 Flowlink 5.1 Software, two user licenses. Special pricing for Flowlink 5.0 users.  Requires S/N# from Flowlink 5 Software.	123.50	123.50
10	1	602004507 USB Communication Cable, 10 ft. Connects 2100 Series Module top connector to PC with USB connector.	232.75	232.75
11	1	692004583 Isco 2105 to 674 Rain Gauge interconnect cable. This 10 inch cable has a 12-pin connector that connects to the 2105 module. The other end has a 4-pin connector that mates to the cable supplied with the 674 Rain Gauge.	109.25	109.25
12	1	S&T 1 Day On-Site Start-up & Training	1,200.00	1,200.00
			<b>Quote Total:</b>	<b>17,393.95</b>

Prices shown do include freight but, NOT sales tax. MasterCard/Visa will be accepted with a 4% surcharge. Please review this quotation and let us know if you have any questions.

By: \_\_\_\_\_  
Travis DeGroot



Responsive partner.  
Exceptional outcomes.

February 12, 2016

**Yvette Christianson**  
Water Quality Manager  
15320 Minnetonka Blvd.  
Minnetonka, MN 55345

RE: St. Louis Park Stormwater Monitoring Equipment Installation

**Dear Ms. Christianson:**

Thank you for the opportunity to continue to provide our services to Minnehaha Creek Watershed District (MCWD). As requested, Wenck Associates, Inc. (Wenck) has prepared this proposal to assist MCWD in developing a cost estimates for assisting the installation of monitoring equipment at two locations in St. Louis Park. We appreciate the opportunity to provide you with this proposed scope of services and look forward to assisting you with this project.

The scope of services described below will be completed by Wenck.

### **Task 1. Permitting and Access Permission**

Wenck will obtain any permits and permission required to install water monitoring equipment at each site. This task will involve contacting landowners (county, municipality, private, etc) and completing paperwork to gain required permits and permission for equipment installation. This task will be completed prior to equipment installation.

### **Task 2. Assist Minnehaha Creek with the installation of monitoring equipment**

Wenck will complete the installation of lockable Joboxes at each monitoring location and assist with the installation of Isco flow monitoring equipment. This effort will include mounting Joboxes, installing plastic conduit for pressure transducers, and installing rain gauges. This effort will be coordinated with MCWD and Tech Sales Co.

### **Task 3. Flow Calculations**

An open pipe discharge stage relationship may be required to calculate flow at each monitoring site depending on the equipment used. Wenck will obtain information for each monitoring site to develop an open pipe flow equation. Wenck will also measure in pipe velocities to ensure that the Isco equipment is accurately measuring flow.

### **Task 4. Contingency**

Wenck will assist MCWD with maintenance at the monitoring sites due to construction, tampering, or equipment malfunction. Wenck has allotted time to troubleshoot or address issues that arise during the 2016 monitoring season. If major issues arise that require more labor and equipment than included in Task 4, Wenck will discuss with MCWD before conducting additional work.



**Yvette Christianson**  
Minnehaha Creek Watershed  
District  
2/12/2016

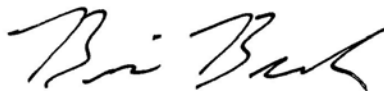
Task Description	Wenck Labor Estimate	Mileage and Equipment	Total
Task 1: Permitting and Access Permission	\$900	--	\$900
Task 2: Installation of Field Equipment (Jobox, conduit, Isco Sampler)	\$2,530	\$1,450	\$3,980
Task 3: Flow Calculations and Flow Validation	\$860	--	\$860
Task 4: Contingency	\$2,450	\$100	\$2,550
Total			\$8,290

On behalf of the 300+ employee-owners of Wenck, thank you for this opportunity to work with Minnehaha Creek Watershed District. Should you have any questions, or need clarification of anything presented in the attached proposal, please do not hesitate to call me at 763-252-6829.

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Sincerely,

**Wenck Associates, Inc.**



Brian Beck  
Water Quality Scientist  
Wenck Associates, Inc,