

Minnehaha Creek Watershed District

REQUEST FOR BOARD ACTION

MEETING DATE: December 20, 2018

TITLE: Authorization to purchase power cords for aeration unit operations

RESOLUTION NUMBER: 18-125

PREPARED BY: Anna Brown

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REVIEWED BY: Administrator Counsel Program Mgr.: Michael Hayman
 Board Committee Engineer Other

WORKSHOP ACTION:

<input type="checkbox"/> Advance to Board mtg. Consent Agenda.	<input type="checkbox"/> Advance to Board meeting for discussion prior to action.
<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): Approval at December 20, 2018 Board Meeting	

PURPOSE or ACTION REQUESTED:

Authorization to purchase power cords for aeration unit operations.

PROJECT/PROGRAM LOCATION:

Six Mile Creek Halsted Bay Subwatershed

PROJECT TIMELINE:

January 2019 – winter aeration begins at Mud Lake and South Lundsten Lake

PROJECT/PROGRAM COST:

Fund name and number: Research and Monitoring (500-5001)

Current Budget:\$126,500 (2018 LSOHC match)

Expenditures to date: \$92,500

Requested amount of funding: \$26,400 (\$24,000 + 10% contingency)

PAST BOARD ACTION:

March 27, 2014	Authorization to enter into contract for the SMCHB carp assessment (14-025)
May 11, 2017	Authorization to request funding from Lessard Sams Outdoor Heritage Council (17-036)
June 28, 2018	Authorization to purchase aeration units for Habitat Restoration Program (18-061)
July 26, 2018	Authorization to execute contract for utility design and coordination (18-070)

SUMMARY:

As part of the Six Mile Creek-Halsted Bay (SMCHB) Habitat Restoration Project, shallow lake aeration is a critical management strategy that targets lakes identified as known or likely reproduction areas. The carp assessment identified six lakes across SMCHB that are likely recruitment areas – Turbid, Marsh, Sunny, North and South Lundsten, and Mud lakes.

As such, in June 2018 the Board authorized the acquisition of up to 15 aeration units, providing for two units per waterbody and three alternates. Deploying two at a time is a best practice to minimize system failures. The model selection was based on best practice in the state. At the time of authorization, the specifications of the required extension cords that connect the units to power on shore was not yet known, as the final configuration for power delivery was still pending, and the recommendation for cord specifications requires professional expertise in electric service delivery.

In July 2018, the MCWD Board awarded a contract to Telcom Construction for utility design and coordination to extend electric service to these sites to facilitate aeration, and in November of 2018 awarded them a contract for utility installation for 4 of the aeration sites (Mud, South Lundsten, Marsh, and Turbid Lakes). Service is now partially installed at Mud and South Lundsten Lakes, and will be fully operational at those sites in January of 2019. Installation at Marsh, Turbid and North Ludsten is anticipated to occur before the winter of 2019-2020. Based on the cost and complexity of installation at Sunny Lake, staff are exploring alternative management strategies to aeration.

Power Cords

Telcom has made a recommendation for the power cord specifications for each site, and based on their recommendation staff is seeking authorization to purchase power cords for the five aeration sites, as well as for the two backup units that may be purchased for the program. Each site will require two cords, one for each aeration unit. The cords length will be between 350 and 450 feet, depending on the site, and the cost of the cords is \$5/linear foot, for an approximate cost of \$2,000 per cord, and a total estimated cost of \$24,000 for the five sites and two alternate units.

Staff recommends the Board authorize the purchase of these power cords for an estimated cost of \$24,000, and establish a not to exceed budget that includes a 10% contingency, for a total amount of \$26,400.

RESOLUTION

RESOLUTION NUMBER: 18-125

TITLE: **Authorization to purchase power cords for aeration unit operations**

WHEREAS, pursuant to Resolution 14-047 the MCWD Board of Managers has identified the Six Mile Creek-Halsted Bay (SMCHB) Subwatershed as a priority area for focusing District planning activities and coordination efforts with subwatershed partners; and

WHEREAS, on October 10, 2013, the MCWD Board of Managers authorized the execution of a contract with Dr. Peter Sorenson and the University of Minnesota to conduct a three-year carp assessment of the SMCHB subwatershed to identify recruitment, carp census, and management strategies; and

WHEREAS, in May 2017, the MCWD Board of Managers authorized staff to apply for funding to the Lessard-Sams Outdoor Heritage Council to restore 2,488 acres of deep and shallow lake habitat through carp management;

WHEREAS, at the February 22, 2018 MCWD Planning and Policy Committee meeting, staff presented the Lessard-Sams Outdoor Heritage Council approved accomplishment plan, under which the grant funds capital cost of barrier installation, utility installation for aeration, and the fish removal contracts; and the District match includes equipment for removal and monitoring, the aeration units, and design services for barriers;

WHEREAS, in June 2018, the MCWD Board of Managers authorized staff to purchase up to 15 aeration units from Aeration Industries International;

WHEREAS, in July 2018, The MCWD Board of Managers awarded a contract to Telcom Construction for designing the electric service delivery to operate the aeration units, and under that contract Telcom has made recommendations for the specifications of the power cords to operate those units;

NOW, THEREFORE, BE IT RESOLVED that the Minnehaha Creek Watershed District Board of Managers authorizes the Administrator to purchase power cords to facilitate shallow lake aeration for the Six Mile Creek-Halsted Bay Habitat Restoration Program for an estimated cost of \$24,000, and establishes a not to exceed budget of \$26,400.

Resolution Number 18-125 was moved by Manager _____, seconded by Manager _____.
Motion to adopt the resolution ___ ayes, ___ nays, ___ abstentions. Date: _____.

Secretary Date: _____