

MEETING DATE: September 26, 2019

TITLE: Approval to Purchase Control Box for the Electrofishing Boat

RESOLUTION NUMBER: 19-085

PREPARED BY: Tom Langer

E-MAIL: tlanger@minnehahacreek.org

TELEPHONE: 952-471-7873

REVIEWED BY: Administrator Counsel Program Mgr.: Brian Beck
 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): Final Action at September 26, 2019 Board Meeting | |

PURPOSE or ACTION REQUESTED:

Authorization to return the Smith Root electrofishing boat control box from Smith-Root and receive a full refund (\$11,995) and purchase a new control box from ETS along with addition equipment to allow stream shocking capabilities to the R&M group (\$9,780).

PROJECT/PROGRAM LOCATION:

Six Mile Creek subwatershed, Long Lake Creek watershed.

PROJECT TIMELINE:

We are expecting to receive the ETS control box in early October. At that time we will return the Smith Root control box.

PROJECT/PROGRAM COST:

Fund name and number: Research & Monitoring 5001

Current Budget: \$20,560.32

Expenditures to date: \$50,750.00

Requested amount of funding: \$9,780.00

Is a budget amendment requested? No

Is additional staff requested? No

PAST BOARD ACTION:

June 28, 2018 RBA 18-061 Authorization to Purchase Equipment for Carp Management in the SMCHB Subwatershed

SUMMARY:

In September of 2017, the Lessard Sams Outdoor Heritage Council recommended the Six Mile Creek-Halsted Bay (SMCHB) Habitat Restoration Project for \$567,000 to the Minnesota State Legislature. The funding bill was approved by the legislature and funds will be available July 1, 2018 for project implementation. The program takes a holistic and comprehensive approach to managing common carp in the SMCHB Subwatershed, consisting primarily of three management strategies:

- Adult biomass removal
- Aeration of shallow lakes to prevent successful carp reproduction
- Barriers to prevent carp movement between waterbodies and assist with removal

Consistent with the accomplishment plan approved by the Lessard Sams Outdoor Heritage Council, the grant funds will be used to pay for the capital cost of barrier installation, utility installation for aeration, and the fish removal contracts. The District match includes equipment for removal and monitoring, the aeration units, and design services for barriers.

In 2018, Minnehaha Creek Watershed District (MCWD or District) staff purchased an electrofishing boat from Smith Root to conduct carp surveys to inform management efforts. In 2019, MCWD staff have encountered several issues with the Smith Root electrofishing boat control box, which has limited staff ability to complete field work.

To resolve the current issue, we are returning the control box we've received from Smith-Root with a full refund (\$11,995.00). We are seeking approval to then purchase a control box with electrical components from ETS for a total of \$9,780.00. Without the control box the electrofishing boat is simply an odd looking boat. MCWD staff have previous experience with the ETS control box with no issue with the unit. We will receive the ETS control box yet this year to test and ensure compatible with other boat components.

Recommendation

Staff are seeking Board authorization to purchase the ETS control box and electrical components for an amount \$9,780.00.

ATTACHMENTS:

1. ETS quote for equipment

RESOLUTION

RESOLUTION NUMBER: 19-085

TITLE: **Authorization to Purchase Control Box for the Electrofishing Boat**

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, 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, staff solicited competitive quotes for the acquisition of equipment to aid in carp removal, monitoring, and management, consisting of the electrofishing backpack and electrofishing boat, and recommends acquiring the aeration units and radio tags without competitive quotes, because in both cases these models are widely used in carp management throughout the state, and they are being purchased directly from the respective manufacturers of this equipment, and the radio tags are known to be compatible with existing equipment owned by the District;

WHEREAS, consistent with the accomplishment plan, the radio tags will be reimbursed through the grant funding, and the costs of the aeration units, electrofishing backpack, and electrofishing boat will be District match.

WHEREAS, staff will return the faulty Smith Root electrofishing control box and purchase a replacement electrofishing control box from ETS

NOW, THEREFORE, BE IT RESOLVED that the Minnehaha Creek Watershed District Board of Managers hereby authorizes the District Administrator to purchase a replacement control box for the electrofishing boat control box from ETS for \$9,780.00.

Resolution Number 19-085 was moved by Manager _____, seconded by Manager _____.
Motion to adopt the resolution ___ ayes, ___ nays, ___ abstentions. Date: _____.

Secretary Date: _____



ELECTROFISHING SYSTEMS, LLC

1240 E. Washington Ave.
Madison, WI 53703

PH/FAX: 608-661-0599
Email: ets@etselectrofishing.com

Equote: Price valid thru 2019

Equipment Desc: 1 ea. boat electrofishing unit, MBS-1DP-82 and acc. per description below:

ETS Quote #: 090919-1
Quote Date: 9/9/2019

Prepared for: Minnehaha Creek Watershed District

Contact Person: Tom Langer
Telephone: 763-479-4263
Email: tlanger@minnehahacreek.org

Ship Date: ASAP requested

Quote per: Mark O'Neal, Director, ETS Electrofishing Systems, LLC

Note: The EIN number for ETS Electrofishing Systems, LLC is 47-2358670. ETS qualifies as a "small business" under federal guidelines.

| Qty. | Description | Model/Type/Serial no. or detail | Cost ea. \$ | Ext'd cost \$ |
|------|--|--|----------------|------------------|
| 1 | Boat electrofishing unit. Pulsed-DC only | <p>MBS-1DP-82</p> <p>This unit is designed for use with a 7200 watt or greater generator for maximum output. A smaller generator may be used with correspondingly less output power.</p> <p>30 amp main shut off breaker and emergency shut off button.</p> <p>0-300/600VDC peak dual range pulsed-DC, 82 amp peak output.</p> <p>Fully adjustable independent control of rate, duty cycle, and voltage control.</p> <p>Digital backlit peak voltage and peak current meters.</p> <p>Resettable min/secs counter to measure shock time. Seconds only timer also available.</p> <p>LED lamp indicates when footswitch and pads are closed</p> <p>Water resistant enclosure, breaker cover, and controls.</p> <p>Smith-Root Compatible connectors.</p> | 6,550.00 | 6,550.00 |



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| | | | | |
|---|---|---|--------|--------|
| 1 | Diode clamping of pad control relay inside MBS box to protect anode reed switches | | 75.00 | 75.00 |
| 1 | Modify main pc board circuitry to reduce trip point of overload to 20 amps peak (10 amps through each probe). Interlock with Amphenol receptacles so trip point reduction occurs automatically whenever the anode plugs are inserted into Amphenol receptacles. Note that both anode pole plugs must be inserted into the box to allow operation. Both operators must also simultaneously have their anode switches depressed to allow operation (safety requirement). Safety protocol must prohibit either operator from lifting his probe electrode out of the water while depressing his anode switch. | | 300.00 | 300.00 |
| 2 | Add two ea. 5-socket Amphenol receptacles to side of MBS box to accommodate anode poles including wiring. Includes time to test circuits out on bench and generator. | | 240.00 | 480.00 |
| 1 | 18" x 30" heavy duty footpad | Wired and ready to attach to box. Cord length to be specified. | 250.00 | 250.00 |
| 1 | 1 yr. limited warranty, parts and labor | | 0.00 | 0.00 |
| 1 | Honda 7000i generator filter | Eliminates voltage instability associated with this generator | 790.00 | 790.00 |
| 2 | Single Channel anode pole with cord | Standard diamond electrode, 20 ft. cords | 430.00 | 860.00 |
| 1 | Stainless steel fantail cathode | Stainless steel cable with connector to match box. Tygon tubing jacket except for last 5 ft. clamped 3 ft. from end and fantailed. Length to be specified | 380.00 | 380.00 |
| 1 | Operator's manual | | 0.00 | 0.00 |
| | | | | |

| | |
|------------------------|-----------------|
| Subtotal: | 9,685.00 |
| Shipping and handling: | 95.00 |
| Sales Tax (exempt): | 0.00 |
| Total: | 9,780.00 |