**Scope of Work**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Project Title: 2016 Assessment of the Benthic Macroinvertebrate Community at Hog Island Inlet and Newton Creek**

**Applicant name:** Kurt L. Schmude, Ph.D.

 Lake Superior Research Institute (LSRI)

 University of Wisconsin – Superior

 801 N. 28th Street

 Superior, WI 54880

 kschmude@uwsuper.edu

(715) 394-8421

**DNR Project Manager:** Craig Roesler

 Wisconsin Department of Natural Resources

 810 W. Maple St.

Spooner, WI 54801

craig.roesler@wisconsin.gov

(715) 635-4076

**Proposed Work:** LSRI will analyze macroinvertebrate samples from Hog Island Inlet and Newton Creek collected during 2016. LSRI will assist with sample collection from Hog Island Inlet. DNR will collect samples from Newton Creek and provide to LSRI. LSRI will enter results in DNR’s SWIMS database. This work is part of an ongoing assessment of the biological condition of Hog Island Inlet and Newton Creek.

**Project location:** Hog Island & Newton Creek tributary to Lake Superior

**Budget:**

|  |  |
| --- | --- |
|  | **Total cost** |
| Personal | **---** |
| Fringe benefits | **---** |
| Equipment | **---** |
| Supplies | **---** |
| Contractual | **$5,164** |
| Other | **---** |
| **Total Direct Cost** | **$5,164** |
| Indirect cost (%) | **0\*** |
| **Total Cost** | **$5,164** |

\*Total Contract Cost include 15% indirect cost.

**Budget Details:** LSRI Macroinvertebrate sampling and analysis

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Unit Cost** | **Units** | **Total** |
| Ponar sample analysis and data entry | $300\* | 13 ponar samples | $3,900 |
| Kick sample analysis and data entry | $150\* | 4 kick net samples | $600 |
| LSRI field personnel | $664\* | 1 day | $664 |
| **TOTAL** | **$5,164** |

\*Unit Cost include 15% indirect cost.

**Timetable:**

August/September 2016 QAPP submitted and approved.

Petite ponar sample collection at 12 sites in Hog Island Inlet and adjacent control area, including 1 duplicate sample by DNR staff with assistance by LSRI Staff. Exact date to be determined. Samples delivered to LSRI for analysis.

September/October 2016 DNR will collect macroinvertebrate kick samples from Newton Creek at 3 sites with one duplicate sample and deliver the samples to LSRI for analysis.

Prior to March 31, 2017 LSRI will analyze macroinvertebrate samples from all sites. LSRI will enter results from all sites in DNR’s SWIMS data base.

**Deliverables:**

Prior to sample collection Approved QAPP

August/September 2016 LSRI will provide field processing equipment for samples collected from Hog Island Inlet and adjacent control area. LSRI will assist with collection of samples from Hog Island Inlet and adjacent control area.

September 2016-March 2017 LSRI will analyze samples collected from Hog Island Inlet and Newton Creek.

Prior to March 31, 2017 LSRI will enter analytical results from all samples in DNR’s SWIMS data base.