

## Instructions

Please download this Word document (available on the Industrial Commission/Outdoor Heritage Fund Program website at <http://www.nd.gov/ndic/outdoor-infopage.htm> ) to your computer and provide the information as requested. You are not limited to the spacing provided. After completing the report, save it and attach it to an e-mail and send it to [outdoorheritage@nd.gov](mailto:outdoorheritage@nd.gov) AND print it and mail it to: North Dakota Industrial Commission, ATTN: Outdoor Heritage Fund Program, State Capitol – Fourteenth Floor, 600 East Boulevard Ave. Dept. 405, Bismarck, ND 58505. If you are unable to scan attachments, mail them with your paper copy of the report. You will be sent a confirmation by e-mail of receipt of your report and attachments.

Outdoor Heritage Fund Status and Final Report Form/Guidelines			
This report is used to show progress of grant projects funded through the Outdoor Heritage Fund. Status Reports and the Final Report must be submitted as required in Contract.			
Contract Number 008-101	Report Date 1/30/2019	Period Covered by Report (01/01/2018 to 12/31/2018)	
Project Name Powers Lake Watershed Project-Lake Implementation Phase			
Project Sponsor Name City of Powers Lake			
Responsible Official (Last, First Middle) MacDonald, J. Kenneth		Responsible Official's Title Watershed Coordinator	
Project Sponsor Address 218 N. Main; PO Box 198			
City Powers Lake	State ND	Zip Code 58773	Telephone Number 701-464-5055
<u>Financial Update</u> Please provide the following information regarding the funding for your project based on the contract award:			
<u>Funds Spent this Reporting Period</u> (As appropriate please provide copies of receipts for purchases)			
Match Funding \$ 10,910.83			
In-kind Funding \$ 2,368.51			
OHF Funding <b>Requested for Reimbursement</b> \$ 12,606.30			
319 Sponsor Match Funding \$ 20.01			
319 Sponsor In-Kind Funding \$ 29,443.17			
319 Sponsor Share \$ 44,194.76			
Total Funding Expended for this Reporting Period \$ 94,226.04			
<u>Total Funds Spent to Date</u>			
Match Funding \$ 12,938.76			
In-kind Funding \$ 5,106.77			
OHF Funding Received and Requested for Reimbursement \$ 25,788.10			
319 Sponsor Match Funding \$ 317.74			
319 Sponsor In-Kind Funding \$ 55,437.98			
319 Sponsor Share \$ 83,633.57			
Total Funding Expended to Date \$ 183,223.92			

Balance of Grant Funds

Match Funding \$ 29,061.24

In-kind Funding \$44,893.23

OHF Funding still to be Requested \$ 194,211.90

319 Sponsor Match Funding \$ 0.00

319 Sponsor In-Kind Funding \$ 10,367.98

319 Sponsor Share \$ 71,226.64

Total Funding to be Expended on this Project \$ 571,500.00

Do you anticipate needing to request a grant extension If yes, please explain

Yes  No

Work Completed during Period Covered by Report:

(This information will be posted on the Outdoor Heritage Fund/Industrial Commission website)

The 2018 dredging season got off to a late start due to the time it took to clean out the cells that were filled the year before. This seems to be one of the biggest issues we have for dredging is cleaning out the cells every spring. The sediment in the cells basically can't be removed until it goes through a winter freeze cycle, and breaks down. Since we were unable to get our first cell cleaned out in a timely matter this year, the pumping of sediment for the whole season was longer in distance which reduced the cuyls of sediment pumped.

There was 8,835 cuyls of sediment with a total of 491 pounds of phosphorous was removed this season. A total for the 2 seasons is 20,589 cuyls and 1,145 pounds of phosphorous. There was also 1,358 pounds of Nitrogen removed through the sediment this year.

Many factors beyond the concentrations of chemical parameters affect lake ecosystems and processes. The sampling results for Powers Lake in 2017-2018 were influenced by some of these conditions. The amount of ice and period of ice cover determined the nutrient levels in the lake during the winter sampling period. This year we saw an early freeze up and through the winter the ice kept getting thicker into April before disappearing in May. As the length of time the lake was frozen and as the ice reaching 37 inches thick, we saw an increase in nutrient levels in the lake. Once the ice came off and spring runoff came in, there was a significant drop in the nutrients in the water column. This indicates that conservation measures implemented in the watershed are still controlling nutrient inputs. Samples are collected at the dredge site and the middle of the lake on the same day within an hour apart. One thing I expected is with the disturbance at the dredge site we would see a higher concentration of nutrients, but that hasn't been the case, even with sediment disturbance the nutrient concentrations have been lower at the dredge site showing the improvement of removing the sediment out of the lake.

Dissolved phosphorous has remained the majority component of the total phosphorous, moving up to 80% of total phosphorous. In 2017, the dissolved phosphorous component was around 70%. The continued downward trend of particulate phosphorous is encouraging.

Sampling was also hindered this year by issues with lab analysis and equipment, so more samples might have given an even fuller picture. Next year we will see increased sampling since these issues will have been resolved.

## Exhibit B

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The Powers Lake Watershed Project sponsored its 3<sup>rd</sup> Annual Youth Fishing Derby on Powers Lake June 2<sup>nd</sup> 2018. This year was a challenge with the weather, with the day before being like a monsoon and raining all the way up to the time of the derby, but the wind didn't go down till after everything was finished. With winds in the 25-30mph mark, and everything soaking wet the derby still went on with 76 kids participating this year to brave the elements. There were 51 fish caught during the 3 hour period. There was also a Northern Pike cleaning demonstration this year that showed how to remove the Y bones and to be ready for the frying pan.

Trophies and prizes were given out to the top 3 in 4 different age categories from 17 and under. There was also 2 first fish certificates given out to the kids that caught there first fish, prizes given out for the first 2 fish caught, and an overall champion for the biggest fish. Raffle prizes were handed out to every kid thanks to the wonderful donations from our sponsors. Lunch was provided by NCC (Northwest Communications Cooperative).



A manure spreader used in spreading Powers Lake sediment.



Lake Sediment spread onto an old CRP converted to a hay field.

Exhibit B

Photos of work completed are welcome (If appropriate, please submit photos of key elements of the project completed or in progress during reporting period) Do not exceed five photos per project report.

Signature of Responsible Official

The project reports shall be provided to the Commission in both electronic and hard-copy formats with permission for unrestricted distribution. The electronic versions shall be in a suitable format for posting on the Outdoor Heritage Fund/Commission website.