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## **Marquette County Conservation District**

780 Commerce Drive, Suite C – Marquette, Michigan 49855 – Phone (906) 226-8871

### **Informal Cost Proposal 1: Baraga Ave. & US41 Highway Upgrade**

The Marquette County Conservation District (hereafter called District) respectfully offers this informal cost proposal for the purpose of providing 2023 vegetative monitoring, invasive species control, tree plantings, and reporting for the **2017 & 2018 BARAGA AVE. & US41 WETLAND MITIGATION PROJECT AS REQUIRED BY EGLE PERMIT #WRP006364**. The District hereby proposes to perform the following services utilizing District staff, licensed & insured herbicide applicators and other co-located conservation partners in exchange for monetary consideration to be paid by the City to the District. The District will provide to the City and its residents the following services that may include but are not limited to for the remainder of the 2023 calendar year: Specific responsibilities of the District are listed below:

Specific responsibilities will involve:

1. Count and inventory all trees in wetland D and E.
2. Count and inventory all shrubs and bushes in wetland D and E.
3. Within the draft report to be provided to the City, please review and respond to all of the “Wetland Mitigation Performance Standards” found in the EGLE permit.
4. A transect line for Wetland D and one for Wetland E has been established from monitoring well to monitoring well in a south to north direction. Along transect line, 5 evenly spaced sample plots of one square meter were created. The distance along the transit line and distance left or right off of the transect line has been documented. (Sketch on the Wetland D & E maps provided in this RFP and give to the City for inclusion in final report).
5. Within each of the two sets of five sample areas, the herbaceous layer (all non-woody plants and woody plants less than 3.2 feet in height) shall be sampled. The data recorded for each sample area herbaceous layer shall include a list of all living plant species, an estimate of percent cover in five percent intervals for each species, bare soil areas, and open water areas relative to the total area of the plot.

6. Randomly select one 30 foot radius sample plot in each Wetland D & Wetland E for sampling and inventory of tree and shrub species. Document the location of the sample area along the transect line and distance right or left of it.  
(Sketch on the Wetland D & E maps provided in this RFP and give to the City for inclusion in final report).
7. Provide plot data and a list of all plant species identified in the plots. Data for each plant species must include common name, scientific name, wetland indicator category from the U.S. Army Corps of Engineers 2012 National Wetland Plant List for Michigan, physiognomic classification, and whether the species is considered native according to the Michigan Floristic Quality Assessment (Michigan Department of Natural Resources, 2001).
8. Delineate any extensive (greater than 0.01 acre in size) open water areas, bare soil areas, areas dominated by invasive species, and areas without a predominance of wetland vegetation, and provide their location on a sketch to the City.
9. Document any sightings or evidence of wading birds, songbirds, waterfowl, amphibians, reptiles, and other animal use (lodges, nests, tracks, scat, etc.) within the wetland noted during monitoring. Note the number, type, date, and hour of the sightings and evidences.
10. Inspect the site, during all monitoring visits and inspections, for oil, grease, man-made debris, and all other contaminants and report findings. Rate (e.g., poor, fair, good, excellent) and describe the water clarity in the mitigation wetland.
11. Provide annual photographic documentation of the development of the mitigation wetland during vegetation sampling from permanent photo stations located within the mitigation wetland. Take the photos from the exact locations they were taken in 2022 as shown in last year's report. Photos must be labeled with the location, date photographed, and direction.
12. Provide the number and type of habitat structures placed and representative photographs of each structure type.
13. Provide a written summary of all the problem areas that have been identified and potential corrective measures to address them.
14. Aggressively remove all invasive and aggressive species in the two wetlands. Give special attention to Forget-Me-Nots at McClellan and Tansy at Presque Isle. Use herbicide and/or manual control, with prior method approval from the DEQ and with notice given to the City.

15. Provide hand sketches showing all areas of invasive and aggressive specie removal on Wetland D & E maps provided with this RFP. The City will use these sketches to draw new maps that will be included in final report.

16. Supplying and planting trees and shrubs as listed below:

<u>Tree Species</u>	<u>Wetland D</u>	<u>Wetland E</u>
Tamarack – 24” tall	50	50
Red or Silver Maple – 24” tall	50	50

<u>Shrub Species</u>	<u>Wetland D</u>	<u>Wetland E</u>
Tag Alder – 12” tall	50	50
Red Osier Dogwood – 18” tall	50	50

Each of the trees planted shall be tagged and labeled so they can be identified and evaluated next year and added to the master tree spreadsheet. Protective shields made by Tree Sentry to be placed around newly planted shrubs.

All the items above shall be included in the draft report provided to the City except those items that are to be given to City on sketches of Wetland D & E. The previous 2022 report for McClellan Avenue can be used as a guide.

The City would provide discussion on site hydrology and would assemble the final report for submission to the DEQ. The final report is to be prepared and ready for submittal to the DEQ by no later than November 1, 2023. Provide all services and edited report to the City by October 1, 2023.

If this cost proposal is mutually agreed upon, the City of Marquette Agrees to pay the Marquette County Conservation District the sum of **\$12,474.65** in consideration for the District providing services to the City to be completed by October 1<sup>st</sup>, 2023.

*Madeline O'Donnell*

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Dated: 3/7/2023  
Madeline O'Donnell, District Manager  
Marquette County Conservation District  
(County of Marquette, State of Michigan)

*The Marquette County Conservation District mission is to provide for the conservation and restoration of resources in Marquette County through forestry and wildlife practices, watershed management, and education.*