

Sault Ste. Marie Region Conservation Authority



Request for Quotation (RFQ)

Erosion Protection Work

Mark's Bay Conservation Area

June 2020

Final Date for Submission: July 10, 2020 @ 4:00 p.m.

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1. INTRODUCTION / BACKGROUND

The Sault Ste. Marie Region Conservation Authority (SSMRCA) is requesting quotations from experienced and qualified Contractors for the purpose of designing and installing erosion protection measures in Mark's Bay Conservation Area (next to 686 Red Pine Drive).

The Mark's Bay Conservation Area is a 103-hectare (254 acre) site including 3000 metres (10,000 feet) of shoreline on the St. Marys River. It is located near Airport Road (Hwy. 565), on the left of the boat launch and beach. The sandy shoreline is perfect for swimming and sunbathing, boating or fishing. The forest creates picturesque surroundings for hiking, nature viewing or simply relaxing.

The forest is part of the Great Lakes-St. Lawrence forest region and is home to many different birds and small mammals. There is a red pine forest that is as striking as it is peaceful. Cedars scattered throughout the property provide the ideal habitat for deer as well as various species of rare plants of Algoma.

In the summer of 2018, residents on Red Pine Drive contacted the SSMRCA as significant erosion was occurring in an area at the end of Red Pine Drive, directly adjacent to the southern portion of Mark's Bay Conservation Area. Lake levels have been high for the last few years and the damage appears to have occurred during this time. This has become an increasingly urgent issue for many shoreline residences along the St. Marys River.

The affected area has a steep slope, sandy soil and ongoing erosion is creating an immediate safety risk to adjacent habitable structures. The purpose of the Erosion Control Project is to develop a long-term, sustainable solution to halt further erosion, which will protect the existing conservation area, neighboring properties, and public safety.

The erosion has caused the undermining of the hillside along the shoreline and as a result a great number of trees have fallen into the water and their roots are still attached to the land. The erosion is occurring along a portion of the southern waterfront. If erosion continues at the current rate it will have detrimental effects on long-term public safety, neighbouring property and will result in the loss of significant environmental and socio-economic resources for the SSMRCA.

Kresin Engineering Inc. was retained by the SSMRCA for engineering services related to the construction of shoreline erosion protection at Mark's Bay Conservation Area. Kresin has provided a high-end, detailed design for the erosion protection work and long-term mitigation measures.

Unfortunately, with the current specs as outlined in Kresin's designs, the SSMRCA cannot afford to move forward with the Project as designed (see Appendix B for engineered

drawings, for reference only). SSMRCA is asking qualified Contractors to prepare a detailed work plan, cost break down, and install an Erosion Control Project that would be more affordable (whether this includes downsizing the Project in size, or by using more affordable materials to achieve the desired outcome).

2. SCOPE OF WORK

The Bidder shall provide a detailed work plan, cost break down, and schedule clearly describing all tasks proposed to fulfill the Project. The plan should also include a schedule of meetings with SSMRCA staff. The Terms of Reference in Appendix A currently states what the SSMRCA considers as pertinent information and guidelines for the Project Work Details.

The Terms of Reference may have to be adjusted to ensure that the cost of the Project remains within budget. If requested, the Bidder shall identify possible changes in the proposed Terms of Reference in order to keep this Project within budget.

3. SCHEDULE

The SSMRCA will receive quotations until July 10, 2020. Review of quotations and acceptance is expected to take one week. Installation of the Erosion Control Project is expected to take place over the remainder of July and throughout August, 2020. Work must be complete by August 31, 2020 as per a work permit issued by Ministry of Natural Resources and Forestry (MNR). The Bidder shall submit a schedule with their quote demonstrating their ability to complete the Project in a timely fashion.

4. AGENCY APPROVALS

A permit for this work is not required from the SSMRCA or from the City of Sault Ste. Marie.

A permit for the work to "Fill Shore Lands - Install Boulder/Rock Rip-rap for shoreline stabilization" (under Section 2(1), Regulation 975, as amended, Public Lands Act) has been obtained by SSMRCA from the MNR for this Project and is available by contacting the General Manager, Corrina Barrett, via email at cbarrett@ssmrca.ca.

A permit from Fisheries and Oceans Canada (DFO) is not required, but attached as Appendix C are the "Measures to protect fish and fish habitat" from the DFO website.

5. DISCLOSURES

The Bidder shall provide a brief consolidated listing of all proposed modifications and/or deletions to the Terms of Reference, or it will be deemed that every clause will be strictly adhered to.

6. QUOTATION SUBMISSION REQUIREMENTS

All quotations must be received through email in a secured pdf format. Email to: cbarrett@ssmrca.ca.

All quotations must be received by no later than 4:00 p.m. Friday July 10, 2020.

No late submissions will be considered.

Quotations are to include all site visits, materials, and installation costs.

Bidders should address any questions regarding technical information or clarification of the RFQ/Terms of Reference (by email only) to Ms. Corrina Barrett, General Manager/Secretary-Treasurer, SSMRCA, at cbarrett@ssmrca.ca.

7. SELECTION CRITERIA

This request for quotation is not a Tender. The lowest quotation or any quotation will not necessarily be accepted. The Sault Ste. Marie Region Conservation Authority reserves the right not to accept a quotation it deems incomplete or deficient.

While cost will be considered in the review of quotations, a demonstrated understanding of safety requirements and equipment will also be considered.

Bidders must have:

- WSIB coverage
- Liability Insurance of at least \$2,000,000 per occurrence
- Description of experience and qualifications in erosion control projects
- Description of work (materials, measurements, sketch, and installation plan)

By signing the Form of Quotation, the Bidder affirms that the company/corporation has the appropriate WSIB and liability insurance coverage. An insurance certificate and WSIB clearance certificate must be issued to the SSMRCA prior to work commencement. A bid will be disqualified if any of the requirements are not satisfied. A bid will be rejected if, during the investigation, the Bidder cannot demonstrate that the schedule will be met. All quotation requirements must be in the name of the Bidder. If you require a site visit to the property, contact the General Manager/Secretary-Treasurer, Ms. Corrina Barrett, by email cbarrett@ssmrca.ca or telephone 705-946-8530 ext.#1005 to make arrangements.

APPENDIX A - TERMS OF REFERENCE

TASK – Erosion Control Project

Below is a list of pertinent Project Work Details:

Project Work Details

a) Proposed Material:

Clean blasted rock will be placed on the eroded area from the top bank.

b) Dimensions:

The subject area has been described as a section of shoreline bluffs approximately 60 metres long and 5 meters high. Soils in the area are noted to be fine beach sand overlain by a thin topsoil supporting mature tree growth. Dimensions must be confirmed on site by the Bidder.

c) Sediment and Erosion Control Measures:

Silt curtain will be installed to control off site migration of sediments.

Filter cloth will be placed between the subgrade and the aggregate helping keep the aggregate in place.

Sediment controls containing the work area must be installed before the work begins, must be maintained for the duration of the work, and must not be removed until after the area has stabilized.

Any materials that results from the activity, including sediment, debris and aquatic vegetation, must be immediately disposed of on dry land and in a manner that prevents it from entering or re-entering the water body.

d) Details Regarding Construction Techniques / Equipment:

Fallen trees will be removed from water site and cleanup will be carried out.

Cut and remove trees for waterfront repair access.

Re-slope bank from top and place filter cloth.

Reinforce bank with stone and blasted rock to stop from further erosion and to protect neighbouring property.

Wheeled or tracked machinery or equipment used in connection with the Project must be operated from dry land and must be stored on dry land.

Machinery is to be washed, refuelled, and serviced, and the storage of fuel and other materials from the machinery are to be away from the water to prevent entry into the water.

e) Location of Proposed Work:

See maps (a) and (b) below for location of proposed work. The site is adjacent to 686 Red Pine Drive, Sault Ste. Marie, Ontario.

f) Method of Stabilizing the Site:

Larger diameter and size stones and blasted rock will be placed at the bottom to stabilize further erosion.

Shoreline stabilization materials shall consist of appropriate materials, clean and free from organic sediments and must be non-acid generating from a certified source.

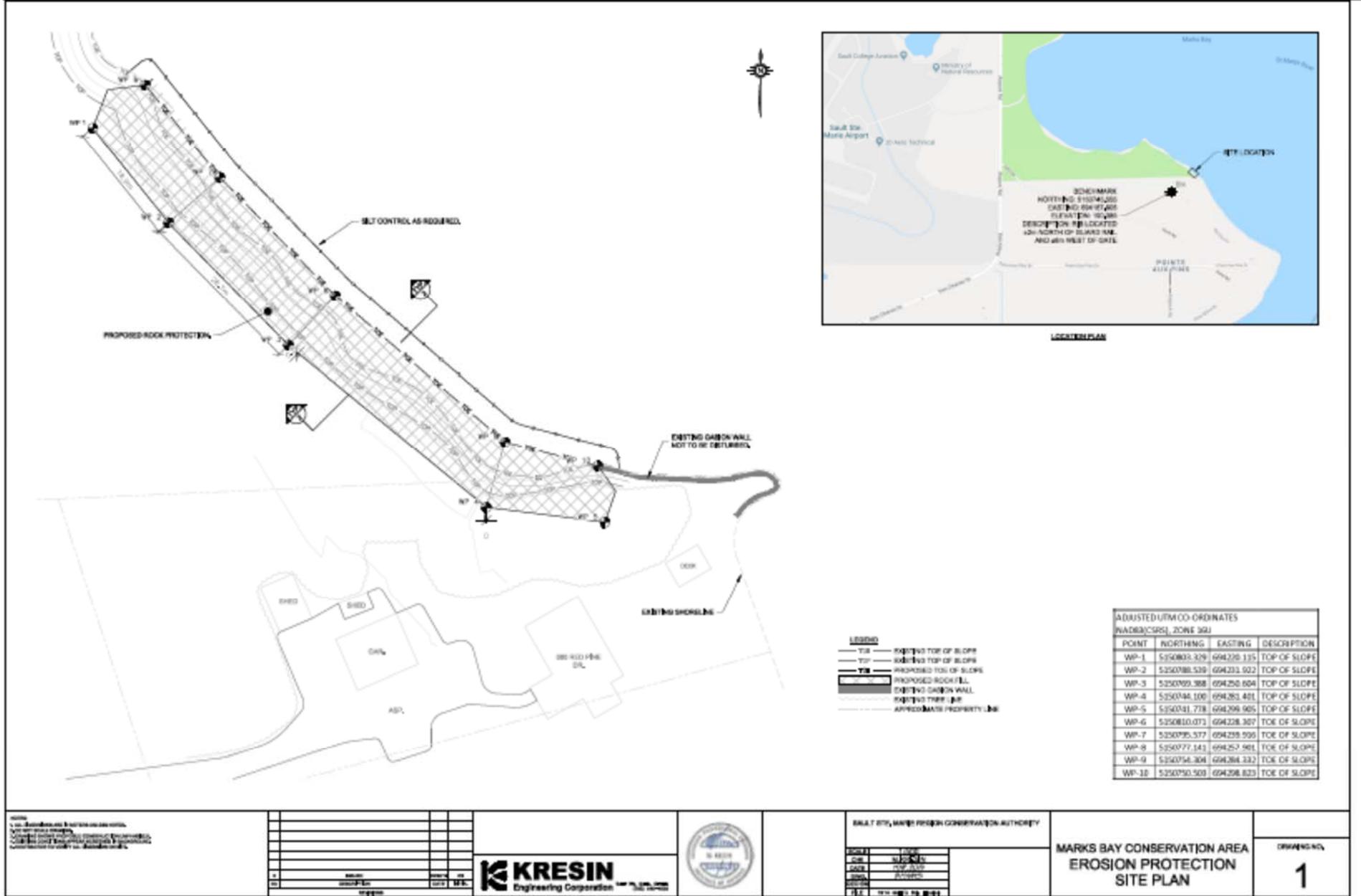
g) Access to the Site:

Site will be accessed from the neighbouring property at 686 Red Pine Drive. Permission has been granted from the property owner. If you require a site visit to the property, contact the General Manager/Secretary-Treasurer, Ms. Corrina Barrett, by email cbarrett@ssmrca.ca or telephone 705-946-8530 ext.#1005 to make arrangements.

Location Map (a)



APPENDIX B – ENGINEERED DRAWINGS - (For Reference Only)



NOTES:
1. See Appendix A for site plan and site context.
2. See Appendix B for site plan and site context.
3. See Appendix C for site plan and site context.
4. See Appendix D for site plan and site context.
5. See Appendix E for site plan and site context.

NO.	REVISION	DATE	BY	CHKD

KRESIN
Engineering Corporation



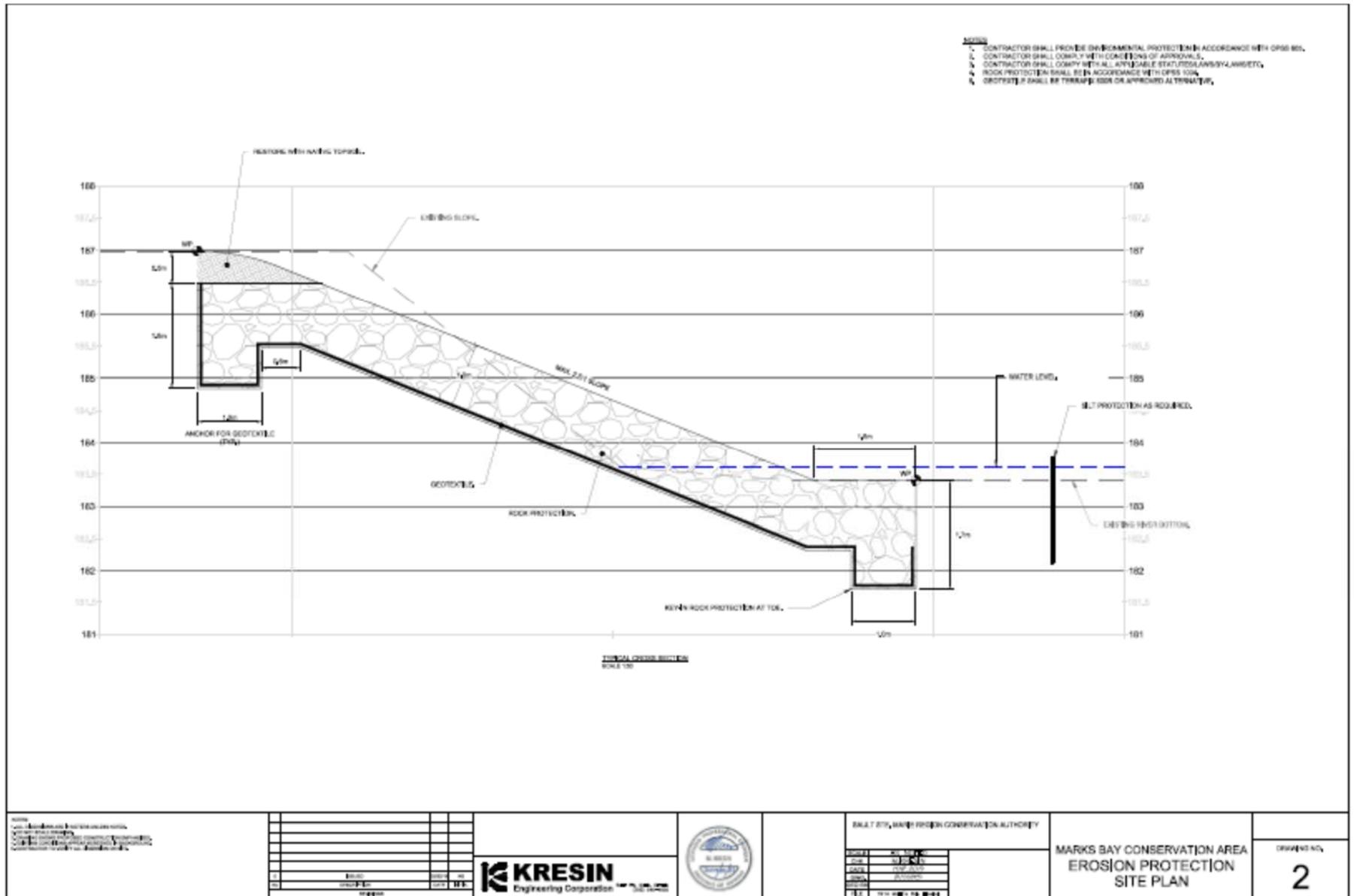
BUILT BY: MARKS BAY CONSERVATION AUTHORITY

DATE	
SCALE	
PROJECT	

**MARKS BAY CONSERVATION AREA
EROSION PROTECTION
SITE PLAN**

DRAWING NO.
1

ENGINEERED DRAWINGS Continued - (For Reference Only)



APPENDIX C – Supplementary Information

Measures to protect fish and fish habitat – from DFO (can be accessed at <https://www.dfo-mpo.gc.ca/pnw-ppe/measures-mesures-eng.html>)

Comply with the fish and fish habitat protection provisions of the Fisheries Act by incorporating measures to avoid:

- causing the death of fish
- harmful alteration, disruption or destruction of fish habitat in your work, undertaking or activity

Works, undertaking or activities where impacts to fish and fish habitat can be avoided if you can follow the measures to protect fish and fish habitat include:

- clear span bridges
- bridge maintenance
- on-land mineral exploration activities
- decking repairs for docks, piers, wharves and bridges

You're responsible for reviewing the complete list of measures and implementing those that are applicable to your work, undertaking or activity. If you can't completely implement the protection measures, [check if your project needs a review](#).

Prevent the death of fish

You can prevent the death of fish by:

- avoiding killing fish by means other than fishing
- avoiding using explosives in or near water
- planning in water work, undertaking or activity to respect timing windows to protect fish, including:
 - their eggs
 - juveniles
 - spawning adults
 - the organisms upon which they feed and migrate

Maintain riparian vegetation

Measures to maintain riparian vegetation include:

- maintaining an undisturbed vegetated buffer zone between areas of on-land activity and the high-water mark of any water body
- using existing trails, roads or cut lines wherever possible
- avoiding tree removal
- using methods to prevent soil compaction, such as swamp mats or pads

Carry out works, undertakings and activities on land

You can prevent the harmful alteration, disruption or destruction of fish habitat by avoiding:

- conducting any work, undertaking or activity in water
- placing fill or other temporary or permanent structures below the high-water mark
- fording of the watercourse
- disturbing or removing materials from the banks, shoreline or waterbody bed, such as:
 - sand
 - rocks
 - aquatic vegetation
 - natural wood debris
- building structures in areas that:
 - may result in erosion and/or scouring of the stream bed or banks
 - are inherently unstable, like:
 - bends
 - meanders
 - floodplains
 - alluvial fans
 - braided streams

Maintain fish passage

Maintain fish passage by avoiding:

- changing flow or water level
- obstructing or interfering with the movement and migration of fish

Ensure proper sediment control

Ensure proper sediment control by:

- avoiding introducing sediment in the water, like:
 - silts
 - clays
 - sands
- developing and implementing an erosion and sediment control plan
 - installing effective erosion and sediment control measures to stabilize all erodible and exposed areas
 - regularly inspecting and maintaining the erosion and sediment control measures during all phases of the project
 - keeping the erosion and sediment control measures in place until all disturbed ground has been permanently stabilized

- installing settling basin and/or filtration system for water flowing onto the site and water being pumped or diverted from the site, including:
 - holding back runoff water until suspended sediment has resettled in the settling basin and runoff water is clear
 - dewatering gradually to prevent sediment resuspension and bank destabilization
- disposing of and stabilizing all excavated material above the high-water mark or top of bank of nearby waterbodies and ensuring sediment re-entry to the watercourse is prevented
- heeding weather advisories and scheduling work to avoid wet, windy and rainy periods that may result in high flow volumes and/ or increase erosion and sedimentation
- regularly monitoring the watercourse for signs of sedimentation during all phases of the work, undertaking or activity and taking corrective action if required
- using biodegradable erosion and sediment control materials whenever possible and removing all exposed non-biodegradable erosion and sediment control materials once site is stabilized
- operating machinery on land in stable dry areas
- stopping work and containing sediment-laden water to prevent dispersal
- installing temporary clear span bridges to accommodate expected high-water flows and to not damage erodible banks
- limiting the impacts to stream or shoreline banks

Prevent entry of deleterious substances in water

Prevent entry of deleterious substances in water by:

- avoiding depositing any deleterious substances in the watercourse
- developing a response plan to be implemented immediately in the event of a spill of a deleterious substance
- keeping an emergency spill kit on site
- stopping work and containing deleterious substances to prevent dispersal
- reporting any spills of sewage, oil, fuel or other deleterious material whether near or directly into a water body
- ensuring clean-up measures are suitably applied so as not to result in further alteration of the bed and/or banks of the watercourse
- cleaning up and appropriately disposing of the deleterious substances
- planning activities near water such that materials and chemicals do not enter the watercourse, including:
 - grout
 - paint
 - primers
 - degreasers
 - rust solvents

- poured concrete
 - blasting abrasives
 - or other chemicals
- maintaining all machinery on site in a clean condition and free of fluid leaks to prevent any deleterious substances from entering the water
- washing, refuelling, and servicing machinery and store fuel and other materials for the machinery in such a way as to prevent any deleterious substances from entering the water
- disposing all waste materials (including construction, demolition, excavation, commercial logging) above the high-water mark of nearby waterbodies to prevent entry
- ensuring that building material used in a watercourse is handled and treated in a manner to prevent the release or leaching of substances into the water that may be deleterious to fish

APPENDIX D – FORM OF QUOTATION

Contact Information:

Company Name			
Address			
Telephone Number		Fax Number	
Contact Person			
Email Address			
List of Subcontractors – Please provide information for Subcontractors below			
Contractor	Responsibility	Portion of Work	Contact

Schedule of Prices:

Item #	Description of Work	*Unit of Measure	*Estimated Quantity (EQ)	Unit Price (UP)	Amount (EQ x UP)
*Lump Sum items are to be denoted as lump sum (LS) as the unit of measure and have a quantity of one (1)				Amount	
				HST	
				TOTAL AMOUNT (CAD)	

Company Name	
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Estimated Completion Date: _____

I/We have read and understand the Request for Quotation issued on June 26, 2020 by the Sault Ste. Marie Region Conservation Authority. The undersigned has the ability to bind the company/corporation and agrees to provide the goods and services in good condition and with good workmanship to Sault Ste. Marie Region Conservation Authority at Mark's Bay Conservation Area by August 31, 2020.

I/We also agree that the company/corporation has liability insurance coverage of \$2,000,000 and worker's compensation coverage in place and will provide proof of both. It is understood that all measurements are to be field verified by the contractor. The successful proponent will follow all applicable regulations.

Attestation of:

- WSIB coverage
- Liability Insurance of at least \$2,000,000 per occurrence

Checklist of Required Attachments:

- Description of experience and qualifications in erosion control projects
- Description of work to be completed (materials, measurements, sketch, and installation plan)

Company/Corporation: _____

Authorized Representative: _____

Signature: _____

Date: _____