

**Scope of Work**  
**Wisconsin DNR Office of the Great Waters**

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**Project Title:** South Shore Beach Rehabilitation  
**AOC(s):** Milwaukee Estuary Area of Concern  
**Project Applicant:** Natalie Dutack  
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**Project Location:** South Shore Park, City of Milwaukee, Milwaukee County, WI. Lake Michigan Shoreline between E. Iron St. and Texas Ave.

**Project Background/Rationale**

South Shore Park is a Milwaukee County Parks (MCP) facility located in the City of Milwaukee, the state's most densely populated urban area. It is one of only three improved public access points along the Lake Michigan shoreline in the southern half of Milwaukee County. As such, thousands of Southeast Wisconsin residents, including significant numbers of individuals with low-moderate incomes, recreate at this park and beach along the Lake Michigan shoreline. Recreational amenities at the waterfront park include a swimming beach, an extensive set of children's play equipment, a yacht club, and a fishing pier. In addition, the Oak Leaf Trail, a popular regional bike path, passes through the park.

The nearshore areas of South Shore Park are located within the Milwaukee Estuary Area of Concern (AOC). Poor water quality at the beach results in frequent beach closings. The 1.7 acre swimming beach regularly ranks among the worst in the nation in water quality testing and closures. In 2015, 65% of the water quality samples collected at the beach exceeded recreational water quality standards for E. coli. The relocation of South Shore Park beach has been identified as important projects for addressing the Beach Closings/Recreational Restrictions Beneficial Use Impairment (BUI). Numerous monitoring and assessment projects have identified the probable causes of poor water quality which include localized runoff from the park and parking lot areas, excrement from gulls and waterfowl, regional storm water runoff and combined sewer overflows, and a breakwater that limits water exchange with the lake.

In 2017 MCP, DNR, and project partners moved forward with the preparation of engineering designs for water quality improvements to the swimming area beach. SmithGroup was retained to complete planning, design and construction oversight services for the project. The first phase of work involved development of several conceptual designs for improved water quality based upon Lake Michigan currents and wave data, hydraulic modeling, and other science-based data researched and collected by the consultants. The design alternatives were reviewed by MCP, DNR and partners, and shared with community stakeholders.. The preferred alternative, with a beach closer to the breakwater opening, was selected and refined based on input from partners and stakeholders. A final design was prepared and WDNR and USACE permits were secured for implementation.

The location of the proposed swimming area has also been assessed and compared to the currently swimming area by the McLellan Lab at University of Wisconsin-Milwaukee. The McLellan Lab reported that the proposed swimming area has better water circulation and lower bacterial contamination than the current swimming area. This is also supported by the modeling performed by SmithGroup. Relocation of the publicly accessible swimming area will result in less human health risks and more days without beach advisories and closures.

***Proposed Work***

MCP and DNR propose to complete implementation of the South Shore Beach Improvements Project. As a comprehensive design (Specs, Drawing, and Basis of Design Report) was prepared by SmithGroup in 2020, focus of this project will be on the remaining deliverables for Phase 3. MCP will be exercising the option to retain SmithGroup, as outlined in the original RFP and Proposal documents. Work will include:

- Bidding & Construction Oversight – A consultant, retained through extension of contract or selected through County procurement process, will conduct review and finalization of drawings/specifications in preparation for bidding (also called Construction Contract Documents), updating as needed; renewal of permits as needed; preparation of bidding documents in coordination with MCP.
- Construction – MCP will select a construction contractor through a competitive bid procurement process. Work will involve relocation of the existing swimming beach through the creation of a new swimming beach to the south and conversion of the existing beach into a naturalized area, along with new features and amenities to promote access and improved water quality.

***Collaboration with Partners***

A project team made up of representatives from the DNR, MCP and partners will ensure coordination and continuous interaction between parties. At a minimum the project team will include the respective project managers for all agencies. The project team will use collaborative decision making. The team shall function within the framework of funding regulations, state statutes, and County ordinances. It is recognized that project outputs must meet Milwaukee Estuary AOC goals and criteria within the scope of the AOC program. It is DNR’s responsibility to ensure satisfaction of these goals and criteria.

***Timetable***

<b>Task</b>	<b>Timeframe</b>	<b>Responsible Party</b>
Contracting with SmithGroup	September 2023	MCP, DNR
Regulatory due diligence activities	September-November 2023	SmithGroup, MCP, DNR
Bid Package compilation	September - December 2023	SmithGroup, MCP
Public Outreach Event	Spring 2024	MCP/WRP, SmithGroup
Construction bidding	January 2024	MCP, SmithGroup
Construction contractor selected	February 2024	MCP, SmithGroup
Construction & Maintenance period	March 2024-July 2028	Construction Contractor, SmithGroup, MCP
Project reporting	Quarterly	Construction Contractor, SmithGroup, MCP

Additional public outreach and Tech Committee updates	As necessary	SmithGroup, WRP, MCP, DNR
Final Report, billing, & project closeout	July 31, 2028	MCP

***Deliverables***

***Task 1: Engineering Services and Project Development***

Milwaukee County will procure and coordinate bidding and engineering services during construction. SmithGroup will complete bidding and construction oversight services as the owner’s representative under Phase 3 of previously procured services. The design team will make any necessary updates, prepare a bid package using final deliverables from Phase 2 and assist the County with the bidding process.

Deliverables:

- a) Completed bid package including construction contract documents
- b) Bid tabulation

***Task 2: Quality Assurance Documentation***

Prepare and gain approval for a Quality Assurance Project Plan (QAPP) or other acceptable quality assurance documentation for activities included within this scope from DNR.

Deliverables:

- a) Completed QAPPs in electronic format

***Task 3: Permitting and Regulatory Requirements***

Prepare all applicable federal, state, and local permit applications and gain regulatory approvals as required. This includes preparing or updating materials and ensuring compliance with, but may not be limited too, with National Historic Preservation Act, National Environmental Policy Act and Endangered Species Act, and waterway and wetland activities.

Deliverables:

- a) Copies of all permit applications, materials, and regulatory correspondence.

***Task 4: Bidding & Construction Administration***

Utilize construction contract documents for bidding. They also will be responsible for construction oversight as the owner’s representative which will include, but is not exclusive to attending regular progress meetings, reviewing data submitted by contractor, issue necessary interpretation and clarifications to the construction contract documents, evaluate and determine acceptability of substitutions, on site observations, and payment approval.

Deliverables:

- a) Request for proposal or other instrument to hire consultant.
- b) Daily on-site construction logs
- c) Construction meeting agendas and notes
- d) Documentation associated with submittal and change order reviews
- e) Construction Quality Update documentation

***Task 5: Construction***

Implement construction of the project, which includes but is not exclusive to closing and restoring the existing swimming area location to vegetation and converting the rocky beach to the south into the new South Shore Beach swimming area as outlined in the plan set. Perform post-construction vegetative maintenance.

Deliverables:

- a) Pre and post construction photo documentation.

**Task 6: Collaboration with Project Partners and Stakeholders**

Collaborate with DNR via the project manager and other appropriate staff throughout the project. Include in all phases of the project, appropriate public input processes and notices, facilitated by the WRP. The DNR project manager support coordination with Milwaukee AOC Outreach and Communications team for any materials that are to be developed for public outreach or meetings.

Deliverables:

- a) Summary of public feedback, public meeting minutes, and stakeholder (DNR, Tech Team, Waterway Restoration Partnership, MKE AOC Outreach and Communications Team) meeting minutes in electronic format; electronic format copy of any public informational meeting deliverables, presentations, meeting notices, etc.

**Task 7: Reporting**

Prepare and submit quarterly reports, quarterly invoices, and a final report. Reports will be submitted January 1, April 1, July 1, and October 1. Reports will identify amount expended per quarter, activities conducted, and planned activities for the upcoming quarter, along with identification of any issues encountered (including delays or deviations from the original schedule or other setbacks) during the quarter and how they were addressed.

Deliverables:

- a) Quarterly Project Reports for each quarter from receipt of funding through project close out.
- b) Final report on activities completed

**Project Budget**

Budget Detail	Total Project Cost
Personnel: A&E Project Mgr / Engineer (\$48/hr @ 240 hours)	\$11,520
Personnel: A&E Construction Mgr (\$48/hr @ 200 hours)	\$9,600
Personnel: A&E Construction Coordinator (437/hr @ 270 hours)	\$29,600
Personnel: A&E Land Surveyor (\$39/hr @24 hours)	\$936
Personnel Total	\$51,656
Fringe (110%)	\$56,821
Travel	\$0
Equipment	\$0
Supplies	\$0
Contractual: Oversight Services	\$75,000
Contractual: Construction	\$7,816,523
Contractual Total	\$7,891,523
Other	\$0
Total Direct	\$8,000,000
Indirect (0%)	\$0
<b>Total Project Costs</b>	<b>\$8,000,000</b>

**Budget Detail**

The above budget reflects costs for Milwaukee County DAS staff, MCP staff are funded through a separate agreement. Costs for consultants and contractors are detailed through the end of the project. There are no travel, equipment or supply fees or indirect costs associated with this project.