COON CREEK WATERSHED DISTRICT
Request for Board Action

MEETING DATE: July 22, 2019
AGENDA NUMBER: 6
ITEM: Request to Seek Bids - Woodcrest Pond B&IESF Project

FISCAL IMPACT: $295,986.50
POLICY IMPACT: Policy

REQUEST
Authorize staff to seek bids for project

BACKGROUND
Woodcrest Creek is a direct tributary to Coon Creek. Coon Creek was added to Minnesota’s 303(d) list of impaired waters for aquatic life impairments in 2006 due to macroinvertebrate bioassessments and for aquatic recreation impairments in 2014 due to elevated levels of Escherichia coli (E. coli). Excess total phosphorus (TP), total suspended solids (TSS), habitat alterations, and altered hydrology were identified as the primary stressors to Coon Creek’s biota. Pollutant loading allocations were established for TSS, TP, and E. coli as part of the CCWD TMDL approved in 2016.

In 2018, the District was awarded a Clean Water Fund Projects and Practices grant administered by the Minnesota Board of Water and Soil Resources in the amount of $376,093 for the Woodcrest Pond Biochar and Iron Enhanced Sand Filter project.

This project will directly reduce the TP & E. coli loading attributable to regulated urban stormwater runoff and thus make progress towards achieving TMDL Wasteload Allocations for Coon Creek. Regulated stormwater runoff was identified as a primary cause of both TP & E. coli loading to Coon Creek. It should be noted that other projects have been installed in the Woodcrest Creek subwatershed to target TSS and particle-bound phosphorus and to reduce runoff volume. Filtration-based BMPs, like the proposed project, are necessary to bind and remove dissolved and bacterial pollutants.

At the September 10, 2018 Board meeting the Board approved the 2019 budget including the construction of the Woodcrest Pond Biochar and Iron Enhanced Sand Filter.

On December 27, 2019 Staff met with city staff and members of the frisbee golf course to discuss and agree on project details and disturbance during construction.

On February 25, 2019 the Board authorized the District to enter into and executed a Joint Powers Agreement with the City of Coon Rapids for the implementation of the project.

On February 26, 2019 the District executed a 2019 Clean Water Fund grant agreement with the Board of Water and Soil Resources for $376,093.
On May 30, 2019 an informational public neighborhood meeting was held at Coon Rapids City Hall. Residents from 3 adjacent properties attended. There were no issues or concerns with the project or design.

On June 17, 2019 the project site was included on the Annual Board Tour.

**ISSUES/CONCERNS**

**Funding:** In addition to the received grant funding the District has budgeted $295,986.50 and the City of Coon Rapids has agreed to contribute up to $217,000.

**Post-construction Maintenance:** The City of Coon Rapids has agreed to provide routine maintenance of the sand filter post construction. The District will provide funds for future media replacement.

**Park:** The project site is entirely on city owned park property. The park is to remain open to the public during construction however areas maybe temporarily barricaded for public safety.

**Pond function and appearance:** The existing pond has a gate at the outlet that can fluctuate the water level in the pond by approximately 4 feet. Post construction the gate will be closed which will route water through the filter and out a drain pipe. The result is that water in the pond will be temporarily high right after a storm event and then draw down to a normal level.

**Public safety:** The media (sand, biochar and iron filings) used in the filter pose no significant safety concerns. The modifications to the pond components and layout do not create any new safety concerns. Signage will be posted along the pond shoreline instructing people to stay out of the pond. Frisbee retrieval hooks will be supplied along the pond edge to allow people to retrieve their frisbees without entering the pond.

**Watershed Based Funding:** In 2018 the District was awarded a Clean Water Fund Watershed Based Funding grant in the amount of $191,973 to partially fund iron enhanced sand filters on Woodcrest and Pleasure Creek. The remaining project funds were to come from District and city contribution. The District then was awarded a Clean Water Fund Projects and Practices grant for a portion of the Woodcrest sand filter. To minimize confusion and simplify grant reporting it was decided to shift all Watershed Based Funding to the Pleasure Creek project and offset the balance with the District contribution.

**Frisbee Golf course:** Several frisbee golf holes will be temporarily closed during the duration of construction. Staff will continue to communicate and work with the course manager throughout the project.

**RECOMMENDATION**

Authorize staff to seek bids
CONSTRUCTION PLANS
FOR
WOODCREST POND BIOCHAR- AND IRON-ENHANCED SAND FILTER
JUNE 2019
COON CREEK WATERSHED DISTRICT
CITY OF COON RAPIDS
ANOKA COUNTY, MINNESOTA

SHEET INDEX

<table>
<thead>
<tr>
<th>Sheet Number</th>
<th>Sheet Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-101</td>
<td>COVER SHEET</td>
</tr>
<tr>
<td>C-100</td>
<td>BWSPP</td>
</tr>
<tr>
<td>C-101</td>
<td>EXISTING CONDITIONS</td>
</tr>
<tr>
<td>C-201</td>
<td>PRE CONSTRUCTION EROSION CONTROL AND DEMOLITION PLANS</td>
</tr>
<tr>
<td>C-202</td>
<td>POST CONSTRUCTION EROSION CONTROL PLAN</td>
</tr>
<tr>
<td>C-301</td>
<td>Grading and Utility Plan</td>
</tr>
<tr>
<td>C-302</td>
<td>IRON-ENHANCED SAND FILTER PLAN</td>
</tr>
<tr>
<td>C-800</td>
<td>DETAILS</td>
</tr>
<tr>
<td>C-801</td>
<td>DETAILS</td>
</tr>
</tbody>
</table>

THIS PLAN SET CONTAINS 9 SHEETS
Item 6: Request to Seek Bids on Woodcrest Pond Biochar and Iron Enhanced Sand Filter Project

PROJECT INFORMATION

PROJECT DESCRIPTION:

This project involves the installation of Biochar and Iron Enhanced Sand filters at Woodcrest Pond, located in the Town of Chatham, New York. The project is intended to improve water quality by treating runoff from the pond.

PROJECT LOCATION:

Woodcrest Pond, Town of Chatham, New York

PROJECT SCOPE:

The project includes the installation of Biochar and Iron Enhanced Sand filters at Woodcrest Pond. The filters will be used to treat runoff water, improving water quality.

CONSTRUCTION PERIOD:

Estimated construction period: 6 months

PROJECT COST:

Estimated project cost: $500,000

GENERAL CONDITIONS:

1. All work shall be performed in accordance with the specifications and drawings.
2. The contractor shall provide all necessary labor, materials, and equipment for the project.
3. Payment terms shall be 50% upon completion of 50% of the work and 50% upon completion of the project.

PROJECT DOCUMENTS:

1. Construction Drawings: All plans and specifications are included in the project documents.
2. Contract Documents: A copy of the contract documents is available upon request.

SOIL MAP

[Soil map image]

CERTIFICATION

[Signature]

PROJECT SUPERVISOR

[Name]

[Position]

[Company]

[Date]

[Location]
Item 6: Request to Seek Bids on Woodcrest Pond Biochar and Iron Enhanced Sand Filter Project Page 5 of 11
Item 6: Request to Seek Bids on Woodcrest Pond Biochar and Iron Enhanced Sand Filter Project Page 6 of 11
Item 6: Request to Seek Bids on Woodcrest Pond Biochar and Iron Enhanced Sand Filter Project Page 7 of 11
Item 6: Request to Seek Bids on Woodcrest Pond Biochar and Iron Enhanced Sand Filter Project Page 8 of 11
Item 6: Request to Seek Bids on Woodcrest Pond Biochar and Iron Enhanced Sand Filter Project Page 9 of 11
Item 6: Request to Seek Bids on Woodcrest Pond Biochar and Iron Enhanced Sand Filter Project Page 10 of 11
Item 6: Request to Seek Bids on Woodcrest Pond Biochar and Iron Enhanced Sand Filter Project Page 11 of 11