


COUNCIL COMMUNICATION

 <p>CITY OF DES MOINES OFFICE OF THE CITY MANAGER</p>	Number:	19-098	Meeting:	March 11, 2019
	Agenda Item:	23	Roll Call:	19-363
	Submitted by:	Jonathan A. Gano, P.E., Public Works Director		

AGENDA HEADING:

Approving Cooperative Agreement with Iowa Department of Natural Resources (IDNR) to provide funding for the Easter Lake South Watershed Dredging and Improvements project in an amount not to exceed \$425,000.

SYNOPSIS:

Recommend approval of IDNR Agreement No. 19CRDLWBMBALM-0015 for a total not to exceed \$425,000 of IDNR Lake Restoration funds for reimbursement of construction costs for the Easter Lake South Watershed Dredging and Improvements project.

FISCAL IMPACT:

Amount: \$425,000 of IDNR grant funds.

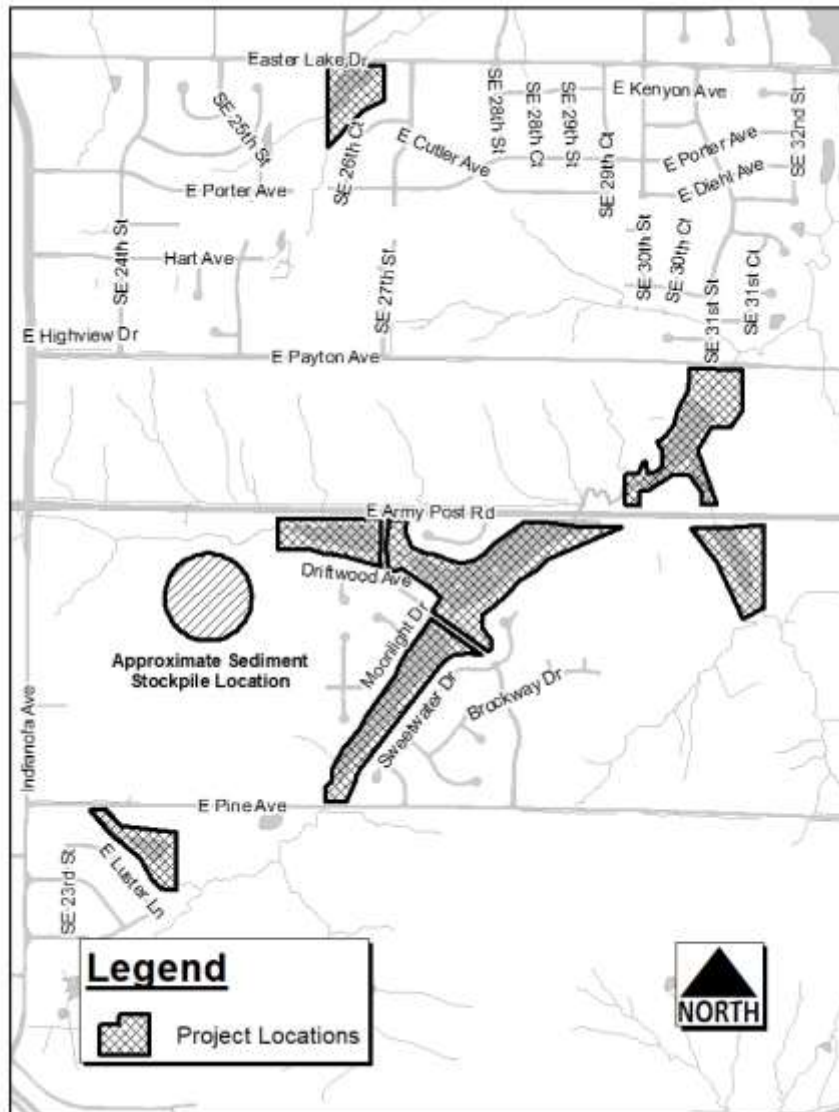
Funding Source: 2018-2019 CIP, Page Storm – 7, Easter Lake Watershed Improvements, SM061, \$425,000 in IDNR Lake Restoration Funds for detention basin dredging, remaining \$1,402,200 project costs provided by Storm Water Utility Funds (previously approved by Roll Call No. 18-2113).

ADDITIONAL INFORMATION:

- The Easter Lake Water Quality Management Plan (WQ Plan) issued in 2012, provided a comprehensive review of the causes of water quality degradation and potential solutions to improve Easter Lake water quality. The WQ Plan was co-sponsored by the IDNR, City of Des Moines, and Polk County Conservation Board. Other support agencies to the WQ Plan included the Iowa Department of Agriculture and Land Stewardship, Polk Soil and Water Conservation District, Natural Resources Conservation Service, and the Center for Agricultural and Rural Development.
- One (1) of the solutions from the WQ Plan was to improve the seven (7) Easter Lake storm water detention basins, which are located in the southeastern end of the lake's watershed. Roughly 20% of the Easter Lake's 6,380-acres watershed area drain through the detention basins.
- The seven (7) detention basins were constructed between 1998 and 2005, and based on sediment surveys completed in 2017, those seven (7) detention basins vary from 18% to 33% full.

- This project, Easter Lake South Watershed Pond Dredging Improvements, includes the following improvements to the seven (7) detention basins:
 - Basin dredging (all basins) - dredging over 66,000 cubic yards of sediment.
 - Installation of sediment forebays (on three {3} basins) – provides retention for a portion of the first flush stormwater runoff and allow sediment to settle out from incoming stormwater before it reaches larger basin; therefore, capturing a majority of the sediment which improves maintenance.
 - Regrading basin shoreline banks (steepen portions of shoreline banks) – reduces the shallow water areas that favor algae and rooted vegetative growth.
 - Create and expand longer grass buffer zones – provides additional filtering of stormwater runoff from lawns which have fertilizer, sediment, and animal waste and further discourages waterfowl traffic.

- The proposed cooperative agreement will provide state funding for \$425,000 of the \$1,827,200 construction contract.



PREVIOUS COUNCIL ACTION(S):

Date: December 17, 2018

Roll Call Number: [18-2113](#)

Action: [On](#) Easter Lake South Watershed Pond Dredging and Improvements: Resolution approving plans, specifications, form of contract documents, Engineer's estimate and designating lowest responsible bidder as Elder Corporation (Jared R. Elder II, President), \$1,827,200. ([Council Communication No. 18-672](#)) Moved by Gatto to adopt. Motion Carried 7-0.

Date: August 14, 2017

Roll Call Number: [17-1388](#)

Action: [Cooperative](#) Agreement with Iowa Department of Natural Resources (IDNR) to Fund 50% of the Easter Lake Watershed Improvement Project. ([Council Communication No. 17-596](#)) Moved by Hensley to adopt. Motion Carried 7-0.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS: NONE

For more information on this and other agenda items, please call the City Clerk's Office at 515-283-4209 or visit the Clerk's Office on the first floor of City Hall, 400 Robert D Ray Drive. Council agendas are available to the public at the City Clerk's Office on Thursday afternoon preceding Monday's Council meeting. Citizens can also request to receive meeting notices and agendas by email by calling the Clerk's Office or sending their request via email to cityclerk@dmgov.org.