



**CITY OF NOVI CITY COUNCIL**  
**APRIL 25, 2022**

**SUBJECT:** Approval to award engineering services to Spalding DeDecker for the Garfield Lake Assessment, in the amount of \$17,550.

**SUBMITTING DEPARTMENT:** Department of Public Works, Engineering Division

<b>EXPENDITURE REQUIRED</b>	<b>\$ 17,550.00</b>
<b>AMOUNT BUDGETED</b>	<b>\$ 2,681,851.00</b>
<b>APPROPRIATION REQUIRED</b>	<b>\$ 0</b>
<b>LINE ITEM NUMBER</b>	<b>592-592.00-976.029</b>

**BACKGROUND INFORMATION:**

The Nine Mile Sanitary Sewer project is substantially complete, with only minor restoration items remaining. The dewatering system was shut down on February 22, 2022, and staff has continued to monitor the water levels in Garfield Lake and surrounding areas. The shut down of the dewatering operations also concluded the diversion of water to Garfield Lake, at which point the level of Garfield Lake was observed to drop approximately 13 inches. Since then, the lake has shown a recovery of four inches over the past three weeks. This recovery is expected to continue based on the response of the groundwater table (piezometer readings), with elevations recovering an average of 5.1 feet since the dewatering operation ceased.

Observations and assessments of the area were conducted throughout the project. To date, staff has not encountered any permanent impact to the Garfield Lake area. However, due to the concerns expressed by a few residents, staff engaged another engineering consultant, Spalding DeDecker, to review and evaluate any impacts. Spalding DeDecker will be completing this assessment as an independent third party, as they were not involved in this project. Their assessment will involve discussions with some of the residents, a comparison of current conditions to prior pictures, water quality sampling, a Bank Erosion Hazard Index assessment of the shoreline, a review of project-specific information and timelines and a final report with their findings. Staff will then provide an update to City Council, including any recommendations for further work, should anything be warranted.

**RECOMMENDED ACTION:** Approval to award engineering services to Spalding DeDecker for the Garfield Lake Assessment, in the amount of \$17,550.

## **GARFIELD LAKE CURRENT CONDITIONS**



**View from south side of lake – April 14, 2022.**



**View from north side of lake – April 14, 2022.**

April 12, 2022

Mr. Ben Croy  
City Engineer  
City of Novi  
26300 Lee Begole Drive  
Novi, MI 48375

Re: Garfield Lake Assessment

Dear Mr. Croy:

Spalding DeDecker (SD) is very pleased to have this opportunity to present this proposal to provide engineering services for the Garfield Lake Review. This project will provide additional testing and assessment of current conditions within the lake as well as a summary report of our findings. The scope of work is based on previous information the city submitted to SD as well as our detailed discussion at the proposal review meeting on April 1<sup>st</sup>.

#### SCOPE OF WORK

Spalding DeDecker will review some of the available data regarding Garfield Lake with respect to potential effects of changing water levels, water quality, and shoreline erosion. These factors may have been disrupted in part by groundwater pumping and discharge associated with nearby construction projects.

Our scope of services will include the following:

- Capture photos of the current shoreline
- Collect lake water quality samples for laboratory testing
- Perform Bank Erosion Hazard Index (BEHI) assessment of shoreline
- Review information regarding Garfield Lake timeline and groundwater pumping
- Produce Summary Report of findings including review of previously provided outside engineering reports.

**FEE**

The proposed fee is based on the following hours estimate:

Garfield Lake - Hours Estimate and Fee				
Task/Hourly Rate	Project Manager	Project Engineer	Expense/ Subconsultant	Task Subtotal Fee
	\$150	\$115		
Photo Site visit (Proposing 2 visits)	4	4		\$1,060
Review Previous Engineering Reports	8	8		\$2,120
Water Chemical Samples with site visit	2	2	\$2,000	\$2,530
Review Pumping and Ground water data	8			\$1,200
Review Lake Level Timeline (create figure)	4	8		\$1,520
Perform BEHI assessment Site Visit (create Figure)	4	8		\$1,520
Concept Level Recommendations and cost estimates	4	8		\$1,520
Summary Report	8	32		\$4,880
QA/QC	8			\$1,200
<b>Totals</b>	<b>50</b>	<b>70</b>		<b>\$17,550</b>

SD proposes to provide the scope above for a lump sum fee of \$17,550.

If you have any questions or concerns, please do not hesitate to contact me. Thank you, and we look forward to working with the city on this report.

Sincerely,

**SPALDING DEDECKER**



Scott Isenberg, PE  
Project Manager

**Accepted By:**

Name & Title: