Item 7b.

Sunfish Lake Engineer's Report for May 2, 2023

By: **Jeff Sandberg, PE**
City Engineer

Date: **April 26, 2023**

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1. Engineering Activities Undertaken in the Month of April

The following Engineer's Report reflects the Engineering activities undertaken this past month.

A. No Solicitation Signage – Staff has worked with Attorney Kuntz and Sergeant Sturgeon to develop the mock-up street sign for City Council review. The cost will be $59.92/sign ($419.43 total for 7 signs). City staff would install signage at the locations shown on the attached map. SEE ATTACHMENTS AT END OF THIS REPORT.

B. Met Council Water Quality Report – As part of the Citizen-Assisted Monitoring Program (CAMP) that the City funds, the Met Council has released the water quality monitoring report through 2022. Horseshoe and Sunfish Lakes each received an "A" grade, and Hornbeam Lake received a "C" grade. The three lakes' water quality has been maintained over the last several years. SEE ATTACHMENT 1B.

2. Building and Site Reviews in the Month of April

A. Staff conducted reviews for the following properties this past month:
- 116 Salem Church Road – Staff provided information to the applicant regarding a potential application for improvements. It is anticipated this application will be forthcoming in the next few weeks.
- 2144 Charlton Road – Staff reviewed a submittal for a garage addition and associated improvements. The applicant is planning to resubmit to address staff comments.

3. Public Works Activities Undertaken in the Month of April

A. 2023 Contract for City Snow Plowing Services – City staff requested quotes from a number of area contractors. Please see the attached memo for results and staff recommendations. SEE ATTACHMENT 3A.

B. Road restrictions went into effect on SFL city streets on April 3rd and were lifted on April 24th. Staff has removed applicable signage.

C. Staff worked with the city contractor on snow removal and addressing areas of concern by residents, including emergency clearing of Angell Road of trees after a storm.

4. Anticipated Engineering/Public Works Activities for the Month of May

A. The city snowplow contractor will sweep city streets in April/ May. The cost is part of the overall snowplowing contract.

The above constitutes the Engineering Report for the City of Sunfish Lake for May 2, 2023.

Respectfully submitted,

Jeffry S. Sandberg, PE
City Engineer

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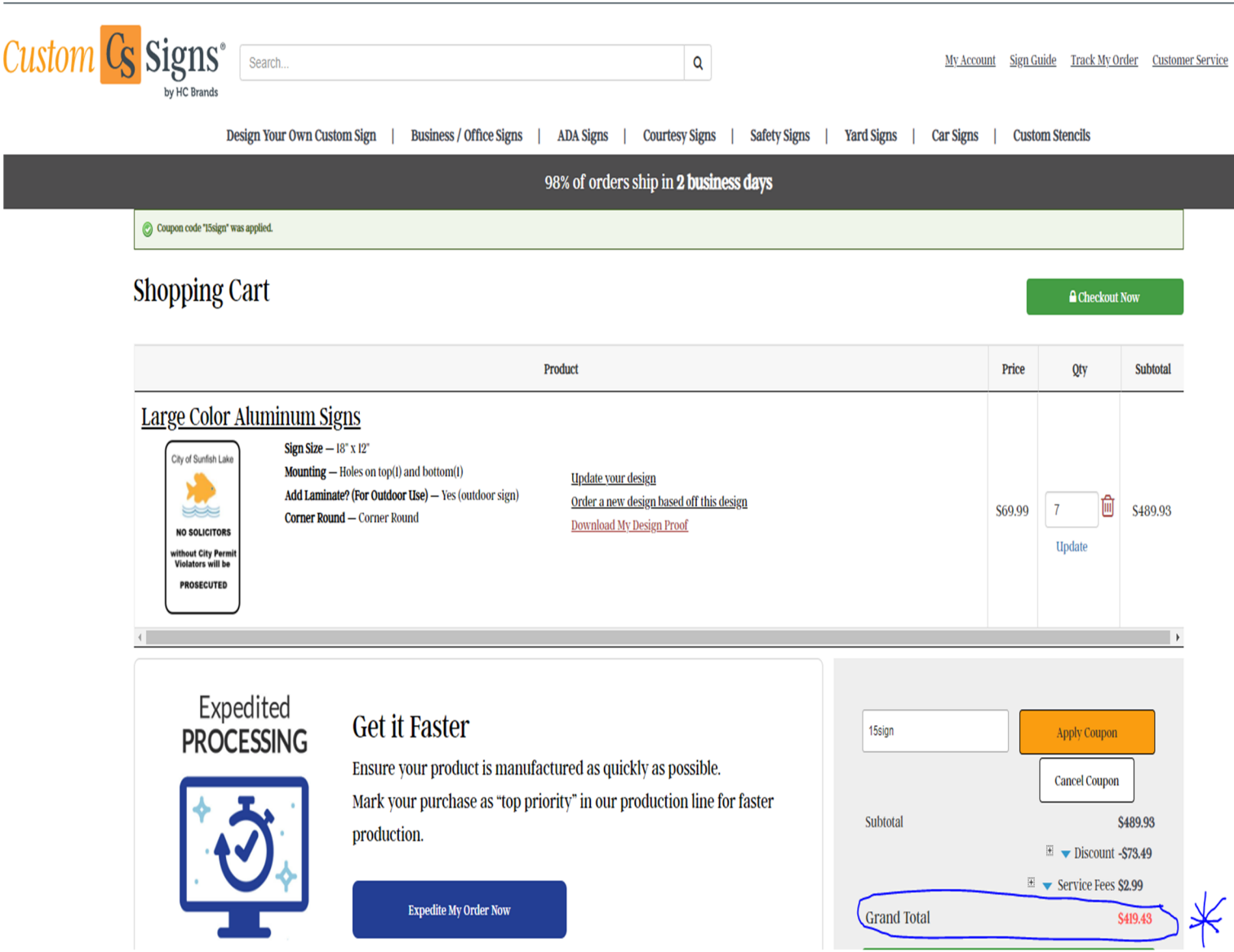
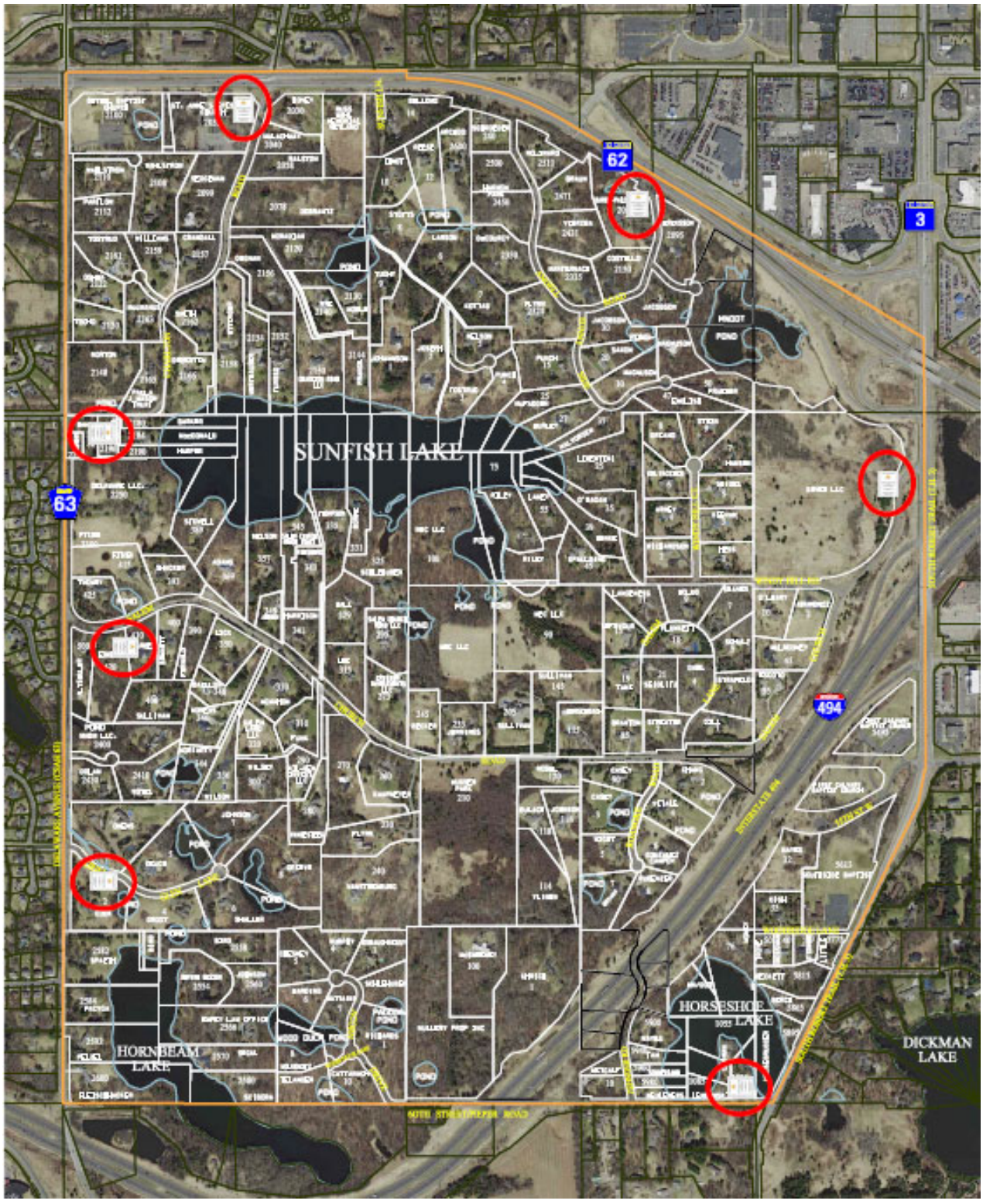
SAMPLE “NO SOLICITORS” STREET SIGN – 18” X 12”

PROPOSED COST – 7 TOTAL SIGNS



PROPOSED SIGN LOCATIONS



2022

Lake Water *Quality* Summary

Lakes add to the quality of life and economic stability of the region

INTRODUCTION

The Twin Cities Metropolitan Area (TCMA) is fortunate to have a large number of lakes. These lakes are important recreational, aesthetic, and ecological resources that add considerably to the quality of life and economic stability of the region. Protecting the water quality of our lakes is a significant citizen concern.

Many state and local agencies have a role in managing and monitoring lake water quality. The Metropolitan Council operates the most extensive lake monitoring program in the region, and has been monitoring metro area lakes since 1980. During the 1980s, the Council typically monitored about 10 to 30 lakes per year.

In 1993, the Council initiated the Citizen-Assisted Monitoring Program (CAMP) to help expand coverage of lake monitoring in the metro area and to provide information to support local water management efforts. This highly successful program collects data on the lakes each year through the efforts of trained, dedicated volunteers and their local sponsors. 2022 was the 30th year of the Council's volunteer program, with 107 citizen volunteers participating in the CAMP. The volunteers were sponsored by local partners, including 12 cities, 14 watershed management organizations and watershed districts, 1 county, and 1 conservation district.

Through the dedicated efforts of the volunteers and local partners, a total of 170 lake-sites on 159 lakes were monitored in 2022 through the CAMP. Metropolitan Council staff monitored an additional 8 lake-sites on 6 lakes. In total, Council staff and CAMP volunteers and sponsors monitored 178 lake sites on 165 lakes in 2022, including 4 lakes and 5 lake sites that were newly added to the Council's lake monitoring program. Since 1980, the Council's lake monitoring program has monitored 453 lake-sites on 410 lakes.

WHY WE MONITOR

The Metropolitan Council is charged with creating a comprehensive regional development guide that minimizes the adverse impacts of growth, including adverse impacts on the environment. The monitoring data collected by the Council, its partners, and citizen volunteers are used to identify pollution problems, support regional planning efforts, and meet federal and state regulations. This Lake Water Quality Summary provides an annual synoptic assessment of the water quality of many of the metro area's lakes. Also, the Council monitors several rivers and streams in the metropolitan area and prepares reports on data collected by those programs.

METROPOLITAN COUNCIL

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Most of the lake monitoring efforts focus on the assessment of eutrophication, which is the process of nutrient enrichment. Eutrophication increases the biological productivity of a lake by enhancing the growth of algae and other plants. Human activities in the watersheds of lakes (for example, nonpoint sources) increase the delivery of nutrients to lakes beyond what occurs naturally. This acceleration of nutrient enrichment by humans is called cultural eutrophication. During cultural eutrophication, the population of algae increases and water clarity decreases. A variety of other problems may develop, including increases in nuisance algal blooms, odor problems, decreased desirability for recreation, decreased dissolved oxygen, fish kills, changes in the structure of fish and invertebrate communities toward low-oxygen tolerant species, and reductions in biodiversity. Furthermore, eutrophic lakes can develop blooms of toxic blue-green algae (cyanobacteria), which can be a serious health concern for humans and animals (domesticated and wild). Cultural eutrophication is one of the leading water quality concerns facing the region.

METHODS

Lakes monitored by Council staff and volunteers are typically sampled at two-week intervals from mid-April through mid-October. Most lakes are sampled at one station located over the deepest spot in the lake. Field measurements taken during each monitoring event typically include temperature and water clarity (measured with a Secchi disk). In addition, surface water samples are collected for lab analyses, which include total phosphorus (TP), total Kjeldahl nitrogen (TKN), and chlorophyll-a (Chl-a). The routine chemical analyses are performed at the Metropolitan Council Environmental Services laboratory following U.S. EPA-approved methods.

Each lake is assigned a lake grade using an A-through-F grading system as originally developed by Council staff in 1989. The objective of the lake grade system is to provide a tool for assessing lakes on a regional basis. The grading system allows comparisons of lake water quality across the metro area, yet is understandable to the public and nontechnical audiences. The grading system uses percentile ranges of the summertime (May-September) average values for three water quality indicators: total phosphorus, chlorophyll-a, and Secchi depth. Total phosphorus is a key nutrient measure; chlorophyll-a is a measure of algal abundance; and Secchi depth is a measure of water clarity. The lake's water quality grade is calculated as the average grade for the three individual parameter grades. Only lakes with a sufficient quantity of data are assigned a lake grade.

RESULTS

In 2022, 47% of the lake sites received a grade of "A" or "B", meaning that they had relatively good water quality. Another 28% of lake sites received a water quality grade of "C". The remaining 25% of lake sites received a water quality grade of "D" or "F", meaning that they had relatively poor water quality. Similar to that of past years, there was no distinct pattern within the TCMA as to where lakes with specific water quality are located.

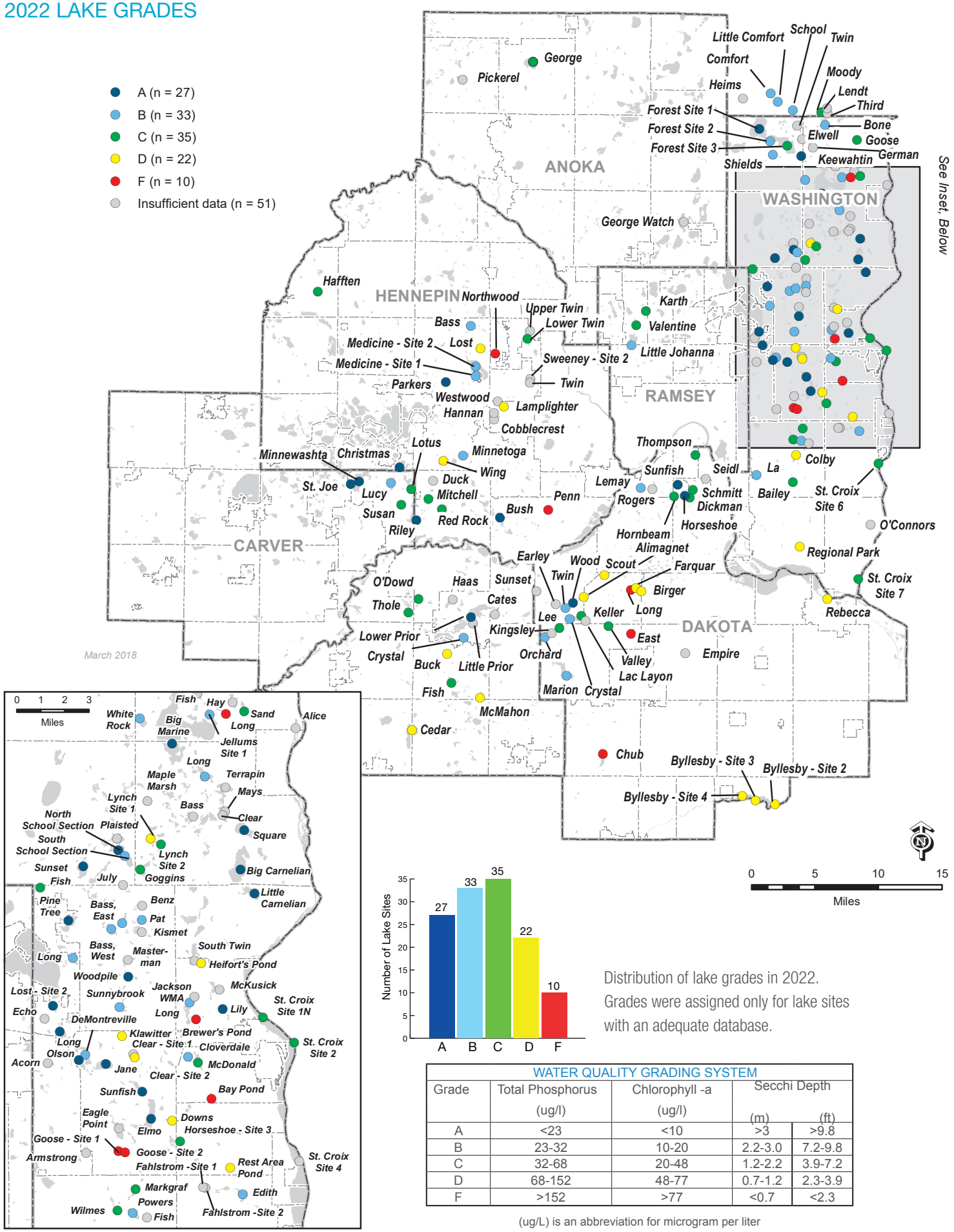
As noted in the 2021 Lake Water Quality Summary Report, the 2021 lake grade distribution showed a shift towards higher grades (A's and B's) as compared to previous years. The reason for the shift remains unclear, but for an analysis and discussion of the shift refer to the Metropolitan Council's 2021 Study of the Water Quality of 167 Metropolitan Area Lakes. For 2022, the lake grade distribution showed a return to a similar pattern typically observed in years prior to 2021, with C grades being the dominant grade, the number of A grades less than B grades, and the number of D grades greater than the F grades. The Annual Lake Water Quality Summary Report, in addition to other lake, stream, and river reports can be accessed online at:

https://eims.metc.state.mn.us/Documents

All of the Council's lake, stream, and river monitoring data can be accessed online using the Council's Environmental Information Management System at:

https://eims.metc.state.mn.us

2022 LAKE GRADES



Distribution of lake grades in 2022. Grades were assigned only for lake sites with an adequate database.

WATER QUALITY GRADING SYSTEM				
Grade	Total Phosphorus (ug/l)	Chlorophyll -a (ug/l)	Secchi Depth (m)	(ft)
A	<23	<10	>3	>9.8
B	23-32	10-20	2.2-3.0	7.2-9.8
C	32-68	20-48	1.2-2.2	3.9-7.2
D	68-152	48-77	0.7-1.2	2.3-3.9
F	>152	>77	<0.7	<2.3

(ug/L) is an abbreviation for microgram per liter

wsb

Memorandum

To: Honorable Mayor and City Council
City of Sunfish Lake

From: Jeff Sandberg, PE
City Engineer

Date: April 24, 2023

Re: Snow Removal Quotes for 2023/24-2026/27 Seasons
City of Sunfish Lake, MN

As directed at the April City Council meeting, staff requested quotes from local snow removal companies for services for the next three (3) seasons. Seven companies were contacted, and despite indications that two companies were interested in providing quotes, only one company offered quotes for their services.

The quotes were received from the following:

Executive Contractors, Inc., Inver Grove Heights, MN

Executive Contractors provided a lump sum per month pricing of $7,500 per month or $45,000 total for the season. Executive Contractors indicated that they would enter in to another 3-year contract with the city and hold their price of $45,000 per season or $135,000 total for three seasons. The quote submitted is included for your review and consideration.

The lump sum quote identifies a $7,500 per month pricing that would total $45,000 for the season. As an added benefit to the city, the quote includes spring street sweeping, Charlton Road annual sump basin clean-out and snow removal at intersections or in other areas as needed. This was not part of the request for proposals but was offered by Executive Contractors as a part of their lump sum contract. We have been requesting proposals for this work separately each spring and it generally costs the city about $2,000 for street sweeping and $700 for the Charlton Road sump catch basins cleanout annually.

Options:

1. Award contract to Executive Contractors, Inc. based upon their lump sum pricing of $7,500 per month, or $45,000 for the season.
2. Award a three-year contract to Executive Contractors, Inc. based upon their lump sum pricing of $45,000 per year for three years through the 2026/ 2027 season.
3. Direct staff to advertise for additional contractor quotes.

Staff Recommendation:

Executive Contractors, Inc. has performed the snow removal on public streets in Sunfish Lake for the last 7 years. Staff has found them to be extremely responsive, as their business location is very close to the city limits. Additionally, they have created the email address of sunfishlakesnow.@gmail.com for residents to use to notify the contractor of areas they consider

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unsafe or that have hazardous conditions needing additional attention. That has worked extremely well since that was implemented several years ago. Executive Contractors has proven to be very responsive to those emails that were received from residents, and Executive Contractors has in many cases gone “above and beyond” the call of duty when needed.

Added benefits to renewing a three-year contract with Executive Contractors include City-wide street sweeping at no additional cost, sump manhole cleaning at no additional cost, and snow removal at intersections and on shoulders when needed (this has historically been done on a per-hour-basis). These additional benefits amount to an approximate $5,000 savings annually.

If the City Council agrees, staff will work with the City Attorney to update the three year contract currently in place to extend through the 2026-2027 season.

Staff recommends that Executive Contractors, Inc. be awarded a three-year contract to perform the 2023/24 – 2026/27 snow removal services for the city.

Attachments

2023 - 2024 SNOW PLOW SEASON

QUOTE FOR SUNFISH LAKE

ITEM	2023-2024	
	Unit	Price
EQUIPMENT & LABOR		
Salt Brine Tank and Spreader & Operator	hour	$150.00
Front-End Loader & Operator	hour	$150.00
Motorgrader & Operator	hour	$150.00
Motorgrader (with wing) & Operator	hour	$150.00
Plow Truck & Driver w/ Sander	hour	$150.00
Sanding Truck & Driver	hour	$150.00
12 CY Dump Truck & Driver	hour	$150.00
Single Axel Dump Truck /w Wing & Driver	hour	$150.00
Bobcat Loader & Operator	hour	$150.00
MATERIAL COSTS		
Salt Brine Mixture (plus tax)	gal	$2.00
Sand/Salt Mixture 80-20 mix (plus tax)	ton	$200.00

*THIS FORM TO BE USED FOR WORK OUTSIDE OF MONTHLY SCOPE

24 HOUR CONTACT NAME Craig Kromrey

24 HOUR CONTACT TELEPHONE NUMBER 651-248-1350

Snow plowing to be completed on city streets according to the City's Current Snow Plowing Policy.

Signature: _____

Company Name: Executive Contractors Inc

Address: 6526 Doffing Ave

Inver Grove Heights MN 55076

Telephone Number: 651-248-1350

2023 - 2024 SNOW PLOW SEASON

QUOTE TO REMOVE ALL 2+" SNOW EVENTS OVER ONE MONTH INCLUDING PRE-TREATMENT FOR ALL EVENTS

2023-2024

Equipment to be Utilized	Estimated Hours	Cost
1. Salt Brine Tank and Spreader	4	$ 600
2. Plow Truck w/ Sander	16	$ 2400
3. Sanding Truck	4	$ 600
4. Brine	1200	$ 2400
5. Salt	12	$ 2400
		$ 8400
2023-2024 TOTAL COST PER MONTH		$ 7500