
Project Application

Dickinson County Water Quality Commission

Applicant Organization:

Street Address:

City:

Zip Code:

Email:

Phone:

Organization Contact:

Project Title:

Project Director: Street

Address:

City:

State:

Zip Code:

Email:

Phone:

Application Submission

Date:

Brief Description (75 Words or less) of project, including expected results:

Amount Requested through this grant application*:

Matching funds:

Hard Match (anything paid for with real money)

Sources of Matching Dollar(s)

(if it is your intent to seek matching grants using WQC funds, list those potential additional grants, the expected timing for funds to be available, and the dollars that will be requested)

Soft Match (anything NOT paid for with real money)

Source(s):

Other Support:

Amount of Federal, State, or other public cash match money already acquired or in process (list all and Status)

Amount of Private cash match funds:

Sources of public and/or private cash match (list all):

Is this project a portion of a larger, overall project to be implemented over a multi-year period?
(Check one)

Yes
No

If yes, describe in project narrative and include in budget form as instructed.

*The Water Quality Commission will only obligate funds for current fiscal year. Any multi-year projects will be allowed to re-apply in subsequent years.

Type of Project (select all that apply)

- Public education, public awareness and information dissemination
- Creation or maintenance of Best Management Practices
- Erection and maintenance of storm water run off facilities
- Bank Stabilization
- Water monitoring
- Watershed Protection
- Activities to abate and remove invasive species
- Any other activities which will improve, protect, or enhance the quality of water in the lakes of Dickinson County

Estimated Project Dates:

Start: 5/1/25

Completion: 9/15/25

Applicants Signature: 

Upon signing in the space provided below, the applicant agrees to conform to the requirements pertaining to:

- Civil Rights Assurance of Compliance: The applicant hereby agrees that it will comply with Title VI of the Rights Act of 1964, 1873 and the age Discrimination Act of 1975 to the end that no person in the United States shall on the grounds of race, color, national origin or otherwise subjected to discrimination under any program or activity for which the Applicant-Recipient receives grant funds and hereby gives assurance that it will immediately take any measures to effectuate this agreement.

This assurance is binding on the Applicant-Recipient, its successors, transferees, and assignees, and the person or person whose signature appears below are authorized to sign this assurance on behalf of the Applicant-Recipient.

Applicants Name and Title

Date



9/27/2024

TIMOTHY J. STAHL
JACKSON COUNTY PUBLIC WORKS DIRECTOR

REQUIRED BUDGET FORM

See Application Guidelines for this form

Proposed Budget for Current Grant Request Year (fill out with just the match for this year's WQC match if this is a multi-component, multi-year project, please fill out the second budget form with the entire budget and any anticipated grant dollars expected to be sought from WQC in future requests)

	Commission	Hard Match	Soft Match	Total
Staff				
Supplies and Services				
Equipment				
Travel				
Water Monitoring				
Land Acquisition				
Land Development				
Other				
Total				

* Hard Match is "real money spent" toward project goal.

** Soft Match is money indirectly spent toward project goal. (This is important but not included in the dollar amount for points).

You must attach a letter of support for each contributor of Hard Match dollars and soft match dollars that specifies the amount of money or service being provided. If you are seeking other grants using WQC funds as a match, list those grants in the budget narrative and the timing those grant funds are to be available.

BUDGET NARRATIVE: Attach a Budget Narrative. Follow directions in Application Guidelines.

TASKS AND DELIVERABLES: Attach a list of Tasks and Deliverables following the Application Guidelines included in this packet.

PROJECT NARRATIVE

Attach project narrative following the instructions in application guidelines, including:

STATEMENT OF PROJECT NEED:

STATEMENT OF PROJECT BENEFITS TO WATER QUALITY

PUBLIC AWARENESS PLAN

LAND ACQUISITION AND DEVELOPMENT: If the project involves land acquisition and development, fill out the requested information below. See application guidelines for details. (Note: Land Development is any activity on a piece of ground that constitutes improving the land, developing the land, or otherwise impacting the land)

Project Location:

Environmental, Economic and Social Impacts of Project (Demonstrate project impact to water quality and project need in this section)

Historical, Archaeological, and Architectural Features/ Impacts/Land Acquisition, Development

Project's Relationship to State, Local and County Plans

Agreements and Easements/Land Acquisition/Development

Itemized Cost Estimate Land Acquisition/Development

Maintenance Plan and Data Rights

If any of input boxes on this form does not provide adequate room for the detail you wish, simply submit a continuation sheet with the additional material and it will be added to the grant application.

ENVIRONMENTAL, ECONOMIC, AND SOCIAL IMPACTS OF PROJECT CONTINUED:

Big Spirit Lake is also a known drinking water source, and it is imperative to protect and improve the water quality for those consuming the water, which includes those residents living in the area. Environmentally, the project will create a wetland habitat and improve the water quality of runoff from the surrounding agricultural area before reaching Little Spirit Lake. There will not be any floodplain, time resource, or major terrain alterations or impacts. The improved water quality from the project will improve the recreational experiences on Little and Big Spirit Lakes, which will also improve tourism, the economy, and local culture. Environmentally, the project will create a wetland habitat and improve the water quality of runoff from the surrounding agricultural area before reaching Little Spirit Lake. There will not be any floodplain, time resource, or major terrain alterations or impacts. The improved water quality from the project will improve the recreational experiences on Little and Big Spirit Lakes, which will also improve tourism, the economy, and local culture.

HISTORICAL, ARCHAEOLOGICAL, AND ARCHITECTURAL FEATURES/IMPACTS/LAND ACQUISITION, DEVELOPMENT CONTINUED:

No known historic features were mapped within or immediately adjacent to the project area in either of the databases. Due to a combination of the site's historic land use and lack of documented resources, no impacts to any historic structures, archaeological sites, and/or traditional cultural properties are anticipated to occur as part of the project. No known historic features were mapped within or immediately adjacent to the project area in either of the databases. Due to a combination of the site's historic land use and lack of documented resources, no impacts to any historic structures, archeological sites, and/or traditional cultural properties are anticipated to occur as part of the project.

PROJECT'S RELATIONSHIP TO STATE, LOCAL, AND COUNTY PLANS CONTINUED:

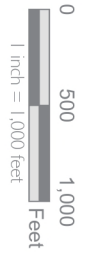
A goal was identified in the Plan to "maintain Little Spirit Lake as a fully functional lake that protects Big Spirit Lake and indirectly reducing sediment and phosphorus loads to Lower Gar and Upper Gar Lakes which are impaired" (page 173), which is supported by this project as it will result in the treatment of 300 acres of agricultural run-off within 400' of Little Spirit Lake, thus also providing protection to Big Spirit Lake, which the plan notes as an outstanding Iowa Waterbody. This project will also provide protection against turbidity impairments due to sedimentation. This goal is supported by this project as it will result in the treatment of 300 acres of agricultural run-off within 400' of Little Spirit Lake, thus also providing protection to Big Spirit Lake, which the plan notes as an outstanding Iowa Waterbody. This project will also provide protection against turbidity impairments due to sedimentation.

Appendix A: Cultural Resources Map



Legend

- ▬ Project Area
- MSHIP Points
- NR Listed or Eligible
- Invented
- ▬ MSHIP Lines
- ▬ NR Listed or Eligible
- ▬ Invented
- ▬ MSHIP Polygons
- ▬ NR Listed or Eligible
- ▬ Invented
- ▬ MSHIP Restricted
- ▬ National Register of Historic Places Polygons
- ▬ National Historic Landmark
- ▬ National Register of Historic Places
- ▬ Removed from National Register of Historic Places
- ▬ National Register of Historic Places Points
- National Historic Landmark
- National Register of Historic Places
- Removed from National Register of Historic Places



Cultural Resources Map

Little Spirit Lake Road

Jackson County, Minnesota

Source(s):
 Orthophoto (ESRI, 2023)
 MSHIP (SHPD, 2024)
 NRHP (NPS, 2024)



Thursday, September 12, 2024

Project Number: 24-30671

Appendix B: EJScreen Community Report

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Jackson County, MN

10 miles Ring Centered at 43.517404,-95.124950

Population: 12,942

Area in square miles: 314.03

Dynamic map initially showing the user-selected area

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	96%
Spanish	2%
German or other West Germanic	1%
Tagalog (including Filipino)	1%
Total Non-English	4%

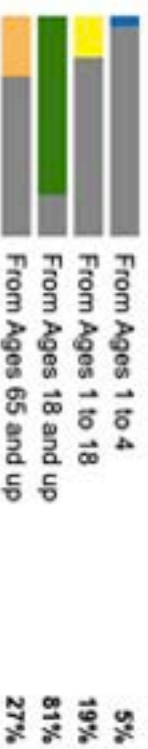
COMMUNITY INFORMATION



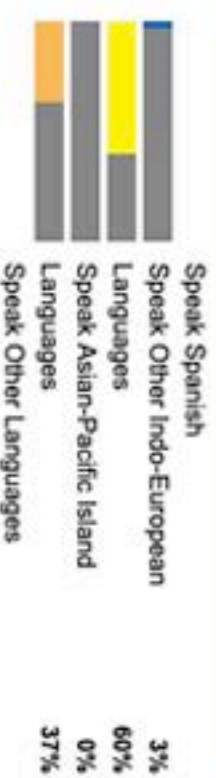
BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Note: Numbers may not sum to total due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2018-2022. Use expectancy data comes from the Centers for Disease Control.

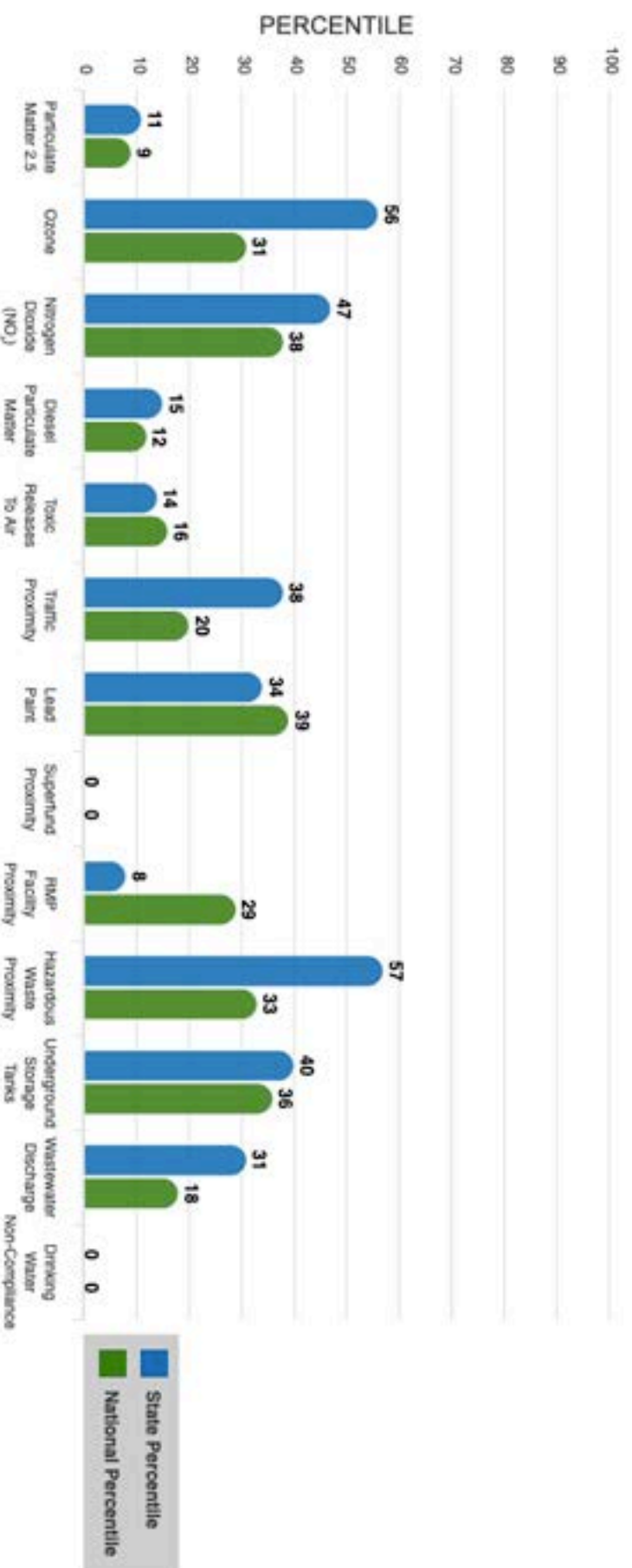
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

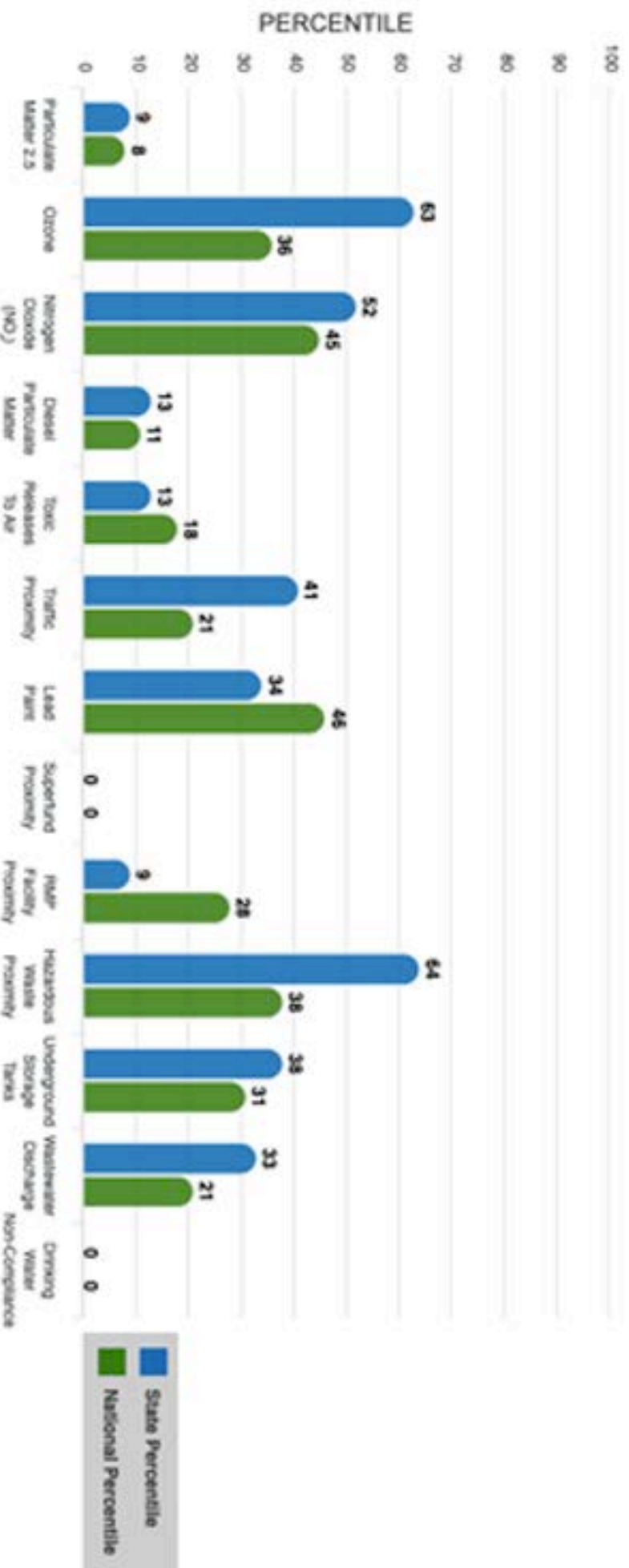
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low income, percent persons with disabilities, percent less than high school education, percent limited English speaking, and percent low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



Report for 10 miles Ring Centered at 43.517404,-95.124950
 Report produced September 19, 2024 using EJScreen Version 2.3

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
ENVIRONMENTAL BURDEN INDICATORS					
Particulate Matter 2.5 (µg/m ³)	6.42	7.66	0	8.45	9
Ozone (ppb)	58.3	57.9	53	61.8	39
Nitrogen Dioxide (NO ₂) (ppbv)	7.2	7	55	7.8	46
Diesel Particulate Matter (µg/m ³)	0.0632	0.113	9	0.191	13
Toxic Releases to Air (toxicity-weighted concentration)	68	2,800	10	4,600	20
Traffic Proximity (daily traffic count/distance to road)	180,000	1,400,000	37	1,700,000	23
Lead Paint (% Pre-1960 Housing)	0.31	0.45	32	0.3	59
Superfund Proximity (site count/km distance)	0	0.16	0	0.39	0
RMP Facility Proximity (facility count/km distance)	0.076	0.89	7	0.57	29
Hazardous Waste Proximity (facility count/km distance)	0.75	0.62	67	3.5	40
Underground Storage Tanks (count/km ²)	0.6	1.9	50	3.6	46
Wastewater Discharge (toxicity-weighted concentration/m distance)	5.1	1100	34	700000	31
Drinking Water Non-Compliance (points)	0	0.16	0	2.2	0
SOCIOECONOMIC INDICATORS					
Demographic Index USA	0.63	N/A	N/A	1.34	22
Supplemental Demographic Index USA	1.27	N/A	N/A	1.64	33
Demographic Index State	0.85	1.31	34	N/A	N/A
Supplemental Demographic Index State	1.27	1.46	43	N/A	N/A
People of Color	8%	15%	43	40%	17
Low Income	22%	29%	38	30%	41
Unemployment Rate	2%	4%	47	6%	36
Limited English Speaking Households	0%	2%	70	5%	56
Less Than High School Education	4%	8%	40	11%	32
Under Age 5	5%	6%	46	5%	52
Over Age 64	27%	19%	84	18%	84

Overall particulate matter index is from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/toxics-data-update>

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	2
Water Dischargers	16
Air Pollution	14
Brownfields	0
Toxic Release Inventory	4

Other community features within defined area:

Schools	6
Hospitals	17
Places of Worship	26

Other environmental data:

Air Non-attainment	No
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community ..	No
Selected location contains an EPA IRA disadvantaged community	Yes

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	17%	19%	25	20%	24
Heart Disease	6.8	5.9	74	5.8	73
Asthma	9.1	9.6	27	10.3	19
Cancer	9.1	7.3	91	6.4	94
Persons with Disabilities	15.5%	12.8%	75	13.7%	67

CLIMATE INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	8%	11%	47	12%	60
Wildfire Risk	16%	2%	97	14%	82

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	15%	14%	58	13%	66
Lack of Health Insurance	4%	5%	43	9%	26
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access Burden	Yes	N/A	N/A	N/A	N/A
Food Desert	Yes	N/A	N/A	N/A	N/A

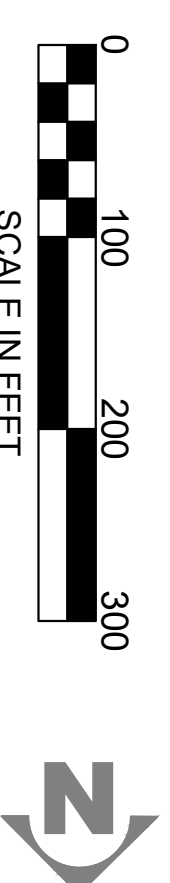
Report for 10 miles Ring Centered at 43.5177404,-95.124950

Report produced September 19, 2024 using EJScreen Version 2.3

Appendix C: Concept



CONCEPT - 475TH AVENUE / 710TH STREET REALIGNMENT WITH PROPOSED WETLANDS

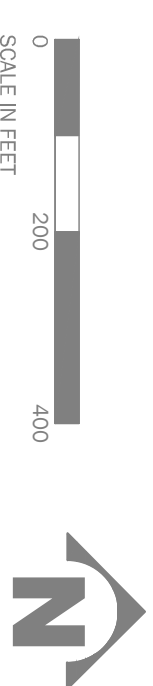




LITTLE SPIRIT LAKE

PEARL LAKE

PROJECT LOCATION: SECTION 26 TOWNSHIP 101 RANGE 036 JACKSON COUNTY



Architecture + Engineering + Environmental + Planning

LITTLE SPIRIT LAKE WATERSHED

JACKSON COUNTY, MINNESOTA - 10/01/2024

ISG PROJECT NO. 24-31254

Appendix D: Submittal Letter



Dickinson Soil & Water Conservation District
C/O John H. Wills
3302 18th St.
Spirit Lake, Iowa 51360

Re: Grant Application for Wetland Basins to Improve Little & Big Spirit Lakes

Dear Mr. Wills,

The Jackson County Public Works Department has been working with Landowners and ISG on a water quality improvement project that consists of the construction of two wetland basins adjacent to Little Spirit Lake. The Public Works Department anticipates contributing a minimum of \$15,000 towards the project as cash match. We appreciate the opportunity to apply for grant funding for the project, and are excited to be a part of a project designed to improve the water quality in Big and Little Spirit Lakes.

Please reach out with any questions.

Respectfully,

A handwritten signature in blue ink, appearing to read "Timothy J. Stahl", is written over a white background.

Timothy J. Stahl
Public Works Director
Jackson County