Rogers Industrial Development

Environmental Assessment Worksheet (EAW)

Rogers, MN

December 14, 2023

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APPENDIX "H" - GEOTECHNICAL REPORT

Rogers Industrial Development

Environmental Assessment Worksheet

Rogers, MN

1. Project Title Rogers Industrial Development

2. Proposer CP West, LLC Contact Person Thomas Noble

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4. Reason for EAW Mandatory EAW, required by MN Rule 4410.4300 Subp 14, A & B

Preparation

5. Location and Maps The index of figures can be found on page 4.

County Hennepin
City Rogers

PLS Location E ½ of the NW ¼, S11, T 120N, R 23W

SE ¼ of the SW ¼, S2, T 120, R23W

Watershed Elk Creek Watershed Management Organization

GPS Coordinates 45°13'31.8"N 93°33'15.1"W

Tax Parcel Numbers: 1112023210002

Table 5.1 -	Table 5.1 – Parcel Information			
Parcel ID	Tax Parcel #	Legal Descriptions		
Α	1112023210002	Parcel 1: That part of the Southeast Quarter of the Southwest Quarter of Section 2, Township 120, Range 23, lying South of the Crow River, also That part of the East Half of the Northwest Quarter of Section 11, Township 120, Range 23 lying North of the South 1458.75 feet and West of the westerly right-of-way of State Highway No. 101.		
		Excepting therefrom that part of Tracts A and B described below:		
		Tract A: That part of the Southeast Quarter of the Southwest Quarter of Section 2, Township 120 North, Range 23 West, Hennepin County, Minnesota, lying south of the Crow River and westerly of the westerly right of way line of Trunk Highway No. 101 as now located and established.		
		Tract B: That part of the Northeast Quarter of the Northwest Quarter of Section 11, Township 120 North, Range 23 West, Hennepin County, Minnesota, lying north of the south 1458.75 feet of the East Half of the Northwest Quarter of said Section 11, and west of the westerly right of way line of Trunk Highway No. 101 as now located and established; which lies westerly of the westerly boundary of Minnesota Department of Transportation Right of Way Plat No. 27-61 as the same is on file and of record in the office of the County Recorder in and for said County and easterly of Line 1 described below:		
		Line 1: Commencing at the intersection of the south line of said Section 2 with the westerly boundary of said Plat No. 27-61; thence southerly on an assumed azimuth of 180 degrees 02 minutes 32 seconds along said westerly plat boundary for 382.00 feet to the point of beginning of Line 1 to be described; thence on an azimuth of 356 degrees 56 minutes 21 seconds for 831.22 feet; thence on an azimuth of 270 degrees 02 minutes 33 seconds for 50.00 feet; thence on an azimuth of 00 degrees 02 minutes 33 seconds for 367.02 feet, more or less, to the shore line of the Crow River and there terminating.		
		(All Abstract Property)		
		Parcel 2: Easement for vehicular and pedestrian traffic for ingress and egress as described in Quit Claim Deed, dated April 19, 1984, filed April 24, 1984, as Document No. 4884703.		

The following is a complete list of figures in this EAW which can be found in **Appendix "A"**.

TABLE 5.2 – LIST OF FIGURES

FIGURE NUMBER	FIGURE TITLE
1	Regional Location
2	Project Area
3	Concept Site Plan
4	USGS Map
5	Existing Cover Types
6	Existing Farmland Types
7	Soils
8	Zoning Map
9	2040 Future Land Use Map
10	Delineated Wetlands
11	National Wetland Inventory
12	100 Year Floodplain Map
13	Historic Site Locations
14	Impaired Waters

6. Description

The description section of an EAW should include the following elements for each major development scenario included:

a. Provide a project summary of 50 words or less to be published in the EQB Monitor.

EQB Monitor Heading	Environmental Assessment Worksheet
Comment Deadline	December 14, 2023
Project Title	Rogers Industrial Development
•	The proposed Rogers Industrial Development project includes the es within the City of Rogers, MN. The project proposes construction cant lot.

Copies of the Draft EAW have been distributed to agencies listed on the Minnesota Environmental Quality Board distribution list. The Draft EAW may also be publicly accessed on the City of Rogers' website.

RGU	City of Rogers
Contact Person	Rrett Angell

Give a complete description of the proposed project and related new construction. Attach additional sheets as necessary. Emphasize construction, operation methods and features that will cause physical manipulation of the environment or will produce wastes. Include modifications to existing equipment or industrial processes and significant demolition, removal, or remodeling of existing structures. Indicate the timing and duration of construction activities.

The area being studied by the EAW is in Rogers, MN, within Hennepin County, north of Northdale Boulevard near the intersection of 147th Avenue and State Highway 101 (see **Figure 1 and Figure 2**). The proposed Rogers industrial Development project includes the development of approximately 45.53 acres within the City of Rogers, MN. The project proposes the construction of three industrial buildings on one vacant lot. Industrial uses on the proposed site will be compliant with City regulations and zoning guidelines. The proposed Concept Site Plan is included in **Figure 3**.

Construction on this site is anticipated to begin in fall 2024 with the first building being ready for occupancy in fall 2025. Phase I of the project will include mass grading of the site and construction of all stormwater facilities and utility improvements. Potential construction and operation methods include clearing and grubbing, mechanical site grading, underground utility installation, bituminous paving, concrete pouring, and building construction. The construction schedule will be confirmed as purchase agreements are obtained for the properties. Individual buildings will be built as the market allows and adhere to all City of Rogers zoning and building regulations.

According to aerial footage, there are no existing structures onsite in need of demolition. Trees and shrubs will be removed where necessary to accommodate the potential for changing grades onsite.

b. Project Magnitude Data

Total project acreage	45.53 acres
Linear Project Length	NA
Number & type of residential uses	NA
Residential Building Area	NA
Commercial Building Area	
Industrial Building Area	
Other Uses (specify)	NA
Structure heights	

Explain the project purpose; if the project will be carried out by a governmental unit, explain the need for the project and identify its beneficiaries.

This project is being initiated and constructed by the private market. No governmental entities are leading the proposed design or construction efforts. The purpose of the project is to provide needed industrial facilities to accommodate an increasing population in and around the City of Rogers. The site is directly west of State Highway 101 and proximity to Interstate 94 and Highways 169 and 10 provide good access to a larger region. There are no projects with a similar size in the immediate area and being first to market will allow Rogers to capture the employment and tax revenue associated with this development.

d. Are future stages of this development (including development on any other property) planned or likely to happen?

No future phases of development, other than those described as part of the project and included in this EAW, are proposed on the project site and there are no known plans for additional development in the vicinity.

e. Is this project a subsequent stage of an earlier project?

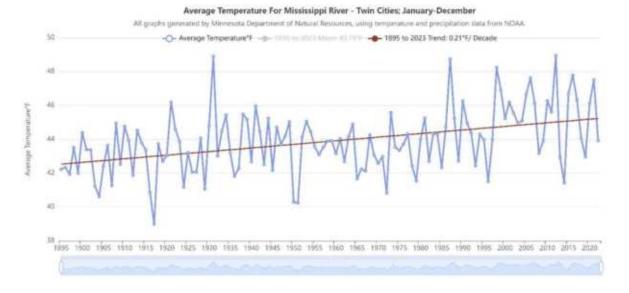
The project is not a subsequent stage of an earlier project.

7. Climate Adaptation and Resilience:

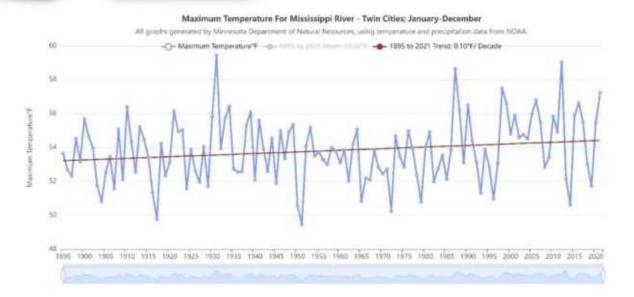
a. Describe the climate trends in the general location of the project (see guidance: *Climate Adaptation and Resilience*) and how climate change is anticipated to affect that location during the life of the project.

The MNDNR Minnesota Climate Trends website was used to analyze past climate trends in the immediate vicinity of the project area using the Mississippi River Watershed District – Twin Cities boundary.

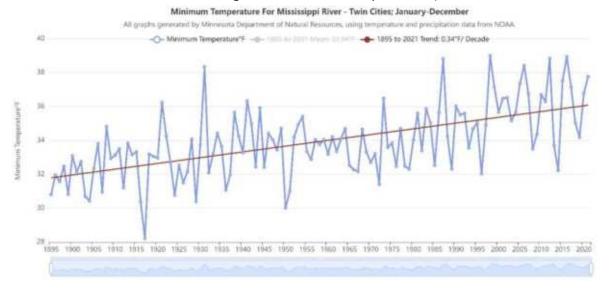
Overall past trends involve warming average annual temperatures (42.23°F in 1895 to 44°F in 2023).



Past trends included increasing maximum annual temperatures (53.56°F in 1895 to 57.49°F in 2021).



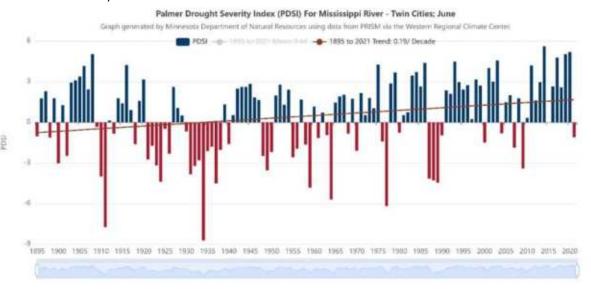
Past trends included increasing minimum annual temperatures (30.8°F in 1895 to 37.84°F in 2021)



Past tends included slightly increasing annual precipitation (24.31" in 1895 to 24.66" in 2021)



Past trends included increasing drought severity (Palmer Drought Severity index of 1.64 in 1895 to - 2.1 in 2023).

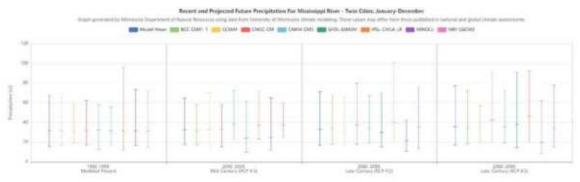


The MNDNR Minnesota Climate Explorer website was used to analyze future predictions for climate trends in the immediate vicinity of the project area using the Mississippi River Watershed District – Twin Cities boundary.

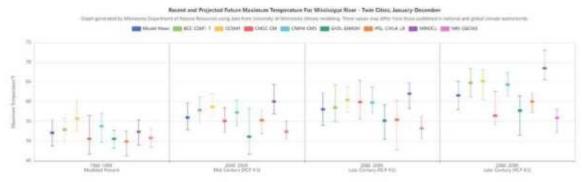
Overall trends involved warming annual average temperatures (modeled mean of 48.98°F between 2040-2059 and 51.38°F between 2080-2099).



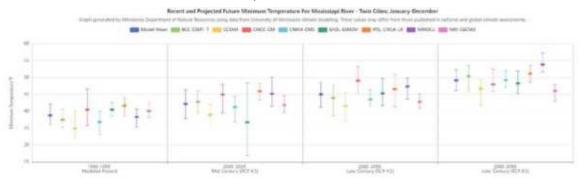
Future trends showed slightly increasing annual precipitation (modeled mean of 32.43" between 2040-2059 and 33.11" between 2080-2099).



Future trends showed increasing maximum annual temperatures (modeled mean of 55.99 °F between 2040-2059 and 58.08°F between 2080-2099).



Future trends showed increasing minimum annual temperatures (modeled mean of 42.20°F in 2040-2059 and 45.01 between 2080-2099).



The Rogers Industrial Development is expected to have a construction timeline of 2-4 years. The building and site design will abide by City and watershed requirements for minimum separation from existing ordinary high-water levels for the historic wetland, and amenities will comply with separation requirements from any observed ground water. These design parameters will mitigate the likelihood of flooding given current climate trends and future climate trends. The proposed development is consistent with the City of Rogers zoning plans in the Regional Employment Center and will not contribute to climate trends beyond what is predicted given the Industrial designation.

b. For each Resource Category in the table below: Describe how the project's proposed activities and how the project's design will interact with those climate trends. Describe proposed adaptations to address the project effects identified.

Resource Category	Climate Considerations	Project Information	Adaptations
Project Design	The proposed project will increase the impervious area of the site and implement tree removal in the areas required to construct the development.	The developed site will include stormwater basins and improve stormwater management on site by regulating potential runoff. The developed site will provide tree replacement in accordance with City requirements to provide shade and help reduce heat island effect.	Project will abide by maximum allowable impervious coverage percentages per the zoning designation for industrial buildings. The project will limit tree removal and grading impacts to only the areas of the site necessary for development of the industrial facility. Trees and existing grades outside the development area will be preserved. New landscaping will include new trees throughout the site to ensure no net loss of qualifying trees.
Land Use	Climate trends of increasing annual average, minimum, and maximum temperatures along with increasing precipitation may result in expansion of	The project includes stormwater basins to protect the existing wetlands. Floodplain mitigation will be provided to	Project will comply with City and watershed guidelines. The project will include emergency overflow locations so large rainfall events wil flow to downstream waters without impacting the proposed buildings on neighbors. The project will exceed

	existing waterbodies.	maintain existing floodplain volume.	its zoning designation.
Contaminated/ Hazardous Waste/ Materials	Climate trends of increasing annual average, minimum, and maximum temperatures along with increasing precipitation may increase erosion of exposed soils and materials held within the soils.	The project will comply with sediment control requirements of the NPDES permit and satisfy water quality requirements of the City and watershed district.	The project will implement a Storm Water Pollution Prevention Plan during construction. Practices will include designated wash-out areas for potentially hazardous construction materials and best management practices to capture and retain sediment onsite.
Water Resources	Climate trends of increasing annual average, minimum, and maximum temperatures along with increasing precipitation may result in increased storm runoff volumes, increased water temperatures, and greater fluctuation in annual precipitation.	The proposed project will satisfy stormwater requirements of the City and watershed district.	The project will satisfy rate, volume, and water quality control as outlined by the City and watershed district regulations. The project will also comply with regulations pertaining to protecting and preserving existing water resources such as wetlands, floodplain volume, and endangered species.

8. Cover Types

Estimate the acreage of the site with each of the following cover types before and after development:

- Wetlands identified by type (Circular 39)
- Watercourses rivers, streams, creeks ditches
- Lakes identify protected waters status and shoreland management classification
- Woodlands breakdown by classes where possible
- Grassland identify native and old field
- Cropland
- Current development

Please refer to **Figures 5 & 6** for a visual depiction of the following cover types and soil types before development within the study area:

Table 8.1 – Existing Cover Types				
Cover Types & Subtypes	Acres Before Development	Acres After Development		
Wetlands	0.43	0.43		
Watercourses	0	0		
Lakes	0	0		
Woodlands	7.89	3.16		
Grassland	0	0		

Cropland	37.21	0
Developed Land	0	41.94
Total:	45.53	45.53

Approximately 81% of the project area is currently cropland, 18% is trees, and the remaining 1% is wetland. As the design progresses the post-construction cover types will be refined. The developer will complete a tree preservation and replacement plan as required prior to construction activities.

Green Infrastructure*	Before	After
	(acreage)	(acreage)
Constructed infiltration systems (infiltration	0	2.79
basins/infiltration trenches/ rainwater		
gardens/bioretention areas without		
underdrains/swales with impermeable check		
dams)		
Constructed tree trenches and tree boxes	0	0
Constructed wetlands	0	0
Constructed green roofs	0	0
Constructed permeable pavements	0	0
Floodplain Mitigation	0	0
TOTAL*	0	2.79

<u>Trees</u>	<u>Percent</u>	<u>Number</u>
Percent tree canopy removed or number of	60%	-
mature trees removed during development		
Number of new trees planted	-	260

9. Permits and approvals required.

List all known local, state, and federal permits, approvals, and financial assistance for the project. Include modifications of any existing permits, governmental review of plans and all direct and indirect forms of public financial assistance including bond guarantees, Tax Increment Financing, and infrastructure. All these final decisions are prohibited until all appropriate environmental review has been completed. See Minnesota Rules, Chapter 4410.3100.

Currently Assumed Approvals Needed:

Table 9.1 - Approvals				
Unit of Government	Type of Application	Status		
FEDERAL				
St. Paul District of the U.S.	Approved Jurisdictional Determination	To be applied for		
Army Corps of Engineers (COE)				
STATE				
Minnesota Department of Resources (MNDNR)	MN Natural Heritage Database Review	Complete		
MN Pollution Control Agency (MPCA)	National Pollution Discharge Elimination System Construction Permit (NPDES)	To be applied for		

Table 9.1 - Approvals					
Unit of Government	Type of Application	Status			
	Stormwater Pollution Prevention Plan (SWPPP)	To be applied for			
State Historic Preservation Office (SHPO)	Archeological/historic sites review	Complete			
Minnesota Department of Labor and Industry (MNDLI)	Site Utilities Review	To be applied for			
LOCAL					
Metropolitan Council	Metropolitan Council Environmental Services (MCES) Permit	To be applied for			
Hennepin County	Plat Approval	To be applied for			
Elm Creek Watershed Management Commission (ECWMC)	Wetland Alteration & Buffer Review	To be applied for			
	Storm Water Management Plan Review	To be applied for			
	Erosion and Sediment Control Plan Review	To be applied for			
	Underground Excavation Permit	To be applied for			
City of Rogers	Mechanical/HVAC Permit	To be applied for			
	Plumbing Permit	To be applied for			
	Electrical Permit	To be applied for			
	Right of Way Permit	To be applied for			
	New Construction Permit	To be applied for			
	Temporary Sign Permit	To be applied for			

10. Land Use

a. Describe:

i. Existing land use of the site as well as areas adjacent to and near the site, including parks, trails, prime or unique farmlands.

The project area currently consists of cropland, trees, floodplain, and wetlands. The property to the west consists of residential single-family housing. The north property line abuts the Crow River. The property directly north of the Crow River is single-family housing. The east property line of the project area abuts State Highway 101 and properties directly across the highway are industrial and commercial production facilities. Properties located south of the project area are also industrial and commercial facilities.

There are no parks, trails, or designated walks near the project area.

The USDA Web Soil Survey indicates that approximately 50% of the project area is not prime farmland, approximately 43.4% is farmland of statewide importance, 5.9% is prime farmland if drained, and 0.4% is prime farmland (**Figure 6**).

ii. Plans. Describe planned land use as identified in comprehensive plan (if available) and any other applicable plan for land use, water, or resources management by a local, regional, state, or federal agency.

The planned land use for the project area consists of Mixed-Use Regional per the City of Rogers' 2040 Future Land Use Map (**Figure 9**). The region is intended to include commercial, office, light industrial, institutional, mid-and-high density residential, and park uses.

The project area is served by the Elm Creek Watershed Management Commission.

iii. Zoning, including special districts or overlays such as shoreland, floodplain, wild and scenic rivers, critical area, agricultural preserves, etc.

The project area is under one ownership and is currently zoned as Regional Employment Center (RC) on the City of Rogers Zoning Map (Figure 8). This zoning designation is intended to promote the redevelopment of the corridor along State Highway 101 into areas suited for high intensity commercial, office oriented, and industrial land use patterns tailored to the larger metropolitan region. The proposed project property is shown as Mixed-Use Regional on the 2040 Future Land Use Map (Figure 9). The Mixed-Use Regional zoning is intended to be a commercial and office-oriented land use pattern tailored to the community and larger metropolitan region.

There is no shoreland overlay district shown in the proposed project area on the City of Rogers 2022 zoning map (**Figure 8**) nor a Minnesota DNR designation for "Wild and Scenic Rivers". Appendix A of the City municipal code governs shoreland protection.

Based on the data provided by FEMA, approximately 6.47 acres of the site lies within Flood zone AE which represents the 1% annual flood (**Figure 12**).

iv. If any critical facilities (i.e. facilities necessary for public health and safety, those storing hazardous materials, or those with housing occupants who may be insufficiently mobile) are proposed in floodplain areas and other areas identified as at risk for localized flooding, describe the risk potential considering changing precipitation and event intensity.

No critical facilities are proposed within a floodplain area.

b. Discuss the project's compatibility with nearby land uses, zoning, and plans listed in Item 9a above, concentrating on implications for environmental effects.

The project area is designated as Regional Employment Center by the City of Rogers' Zoning Map and Mixed-Use Regional in the City of Rogers' 2040 future Land Use map. The proposed project is consistent with these designations. The proposed project will create a unique identity in the region as the largest industrial site along State Highway 101. While the primary focus in this district is job creation, the proposed development will also be mindful of the existing natural features, trees, and floodplain.

The proposed development will be compatible with neighboring properties per the zoning ordinance and 2040 land use plan. No land use variances or conditional use permits are being applied for. All industrial developments have truck traffic and the expected trips from this project have been quantified in the traffic study (See **Question 18**). No hazardous waste or other contaminants is expected to be created from this development. The environmental impacts of the proposed project are consistent with impacts found with other industrial projects.

c. Identify measures incorporated into the proposed project to mitigate any potential incompatibility as discussed in Item 9b above.

No inconsistencies were identified for the proposed project. New trees will be planted on site, storm water management best practice will be followed, and the site buildings will comply with all City of Rogers zoning regulations.

11. Geology, soils, and topography/landforms

a. Geology – Describe the geology underlying the project area and identify and map any susceptible geologic features such as sinkholes, shallow limestone formations, unconfined/shallow aquifers, or karst conditions. Discuss any limitations of these features for the project and any effects the project could have on these features. Identify any project designs or mitigation measures to address effects to geologic features.

According to the Minnesota Geological Survey, depth to bedrock ranges from 50-150 feet below the existing ground surface within the limits of the project area. No known geologic hazards in the form of sinkholes, faults, shallow limestone formations, and karst topography are present on the site. Consequently, measures to avoid or minimize environmental problems due to these hazards are not proposed.

According to Minnesota Geological Survey of Hennepin County, the bedrock underlying the project area is identified as Jordan sandstone, St. Lawrence formation, and Mazomanie formation. Jordan sandstone is white-to-yellow, medium-to-coarse grained, friable quartzose sandstone. St. Lawrence formation is light gray-to-yellow gray and pale yellowish-green, dolomite, feldspathic siltstone with interbedded fine-grained sandstone and shale. Mazomanie formation is white-to-yellow gray, fine-to-medium grained, cross-stratified quartzose sandstone with interbedded dolomite sandstone. Surficial geology in the project area is fine grained sandy gravel.

b. Soils and topography – Describe the soils on the site, giving NRCS (SCS) classifications and descriptions, including limitations of soils. Describe topography, any special site conditions relating to erosion potential, soil stability or other soils limitations, such as steep slopes, highly permeable soils. Provide estimated volume and acreage of soil excavation and/or grading. Discuss impacts from project activities (distinguish between construction and operational activities) related to soils and topography. Identify measures during and after project construction to address soil limitations including stabilization, soil corrections or other measures. Erosion/sedimentation control related to stormwater runoff should be addressed in response to the stormwater "water resources" question.

Most of the site is currently cropland and trees with one existing wetland. According to the HSDA's Web Soi Survey, the soil is a mix of sandy loams (**Figure 7**).

Table 11.1 – Existing Soils				
Map Symbol	SCS Soils Classification	≈	% of	
		Acres	site	
D8C	Sandberg loam	17.2	35	
D6B	Verndale sandy loam	8.9	18	
D5B	Dorset-Two Inlets	7.2	14.7	
B3B	complex		14.7	
D3A	Elkriver fine sandy loam,	5.2	10.7	
DJA	occasionally flooded	3.2		
D67A	Hubbard loamy sand, 0-	3.7	7.5	
B07A	2% slope	5.7		
D67C	Hubbard loamy sand, 2-		6.5	
B07C	12% slope	3.2	0.5	
D24A	Sedgeville loam	2.9	5.9	
W	Water 0.6		1.3	
D2A	Elkriver fine sandy loam,	0.2	0.4	
	rarely flooded			

According to the geotechnical investigation by American Engineering Testing, Inc., soils within the project limits are non-erodible and suitable for the proposed uses. Mitigation based on typical erosion control and sedimentation regulations will be provided. (Appendix H)

12. Water Resources

- a. Describe surface water and groundwater features on or near the site in a.i. and a.ii. below.
 - i. Surface water lakes, streams, wetlands, intermittent channels, and county/judicial ditches. Include any special designations such as public waters, shoreland classification and floodway/floodplain, trout stream/lake, wildlife lakes, migratory waterfowl feeding/resting lake, and outstanding resource value water. Include water quality impairments or special designations listed on the current MPCA 303d Impaired Waters List that are within 1 mile of the project. Include DNR Public Waters Inventory number(s), if any.

Within the project area there are 0.43 acres of wetland along the northern property line. The Minnesota Wetland Conservation Act Notice of Decision on the wetland boundary was submitted on November 4, 2022. The wetland report is included in **Appendix C**. The delineation may be found in **Figure 10**.

According to Minnesota Geospatial Commons, there are no designated trout streams, trout lakes, wildlife lakes, or migratory waterfowl feeding and resting areas on or near the project area. Approximately 6.47 acres of the site is within the FEMA flood zone AE which represents the 1% annual flood.

According to MPCA's Construction Stormwater Special Waters Search, there are two impaired waters within one mile of the proposed site. The Crow River borders the northern property line of the project area and is impaired for benthic macroinvertebrates bioassessments, fecal coliform, fish bioassessments, nutrients, and turbidity. Foster lake is approximately 0.84 miles from the project site and is impaired for nutrients. See **figure 14** for impaired waters within 1 mile of the project area.

a MDH wellhead protection area; 3) identification of any onsite and/or nearby wells, including unique numbers and well logs if available. If there are no wells known on site or nearby, explain the methodology used to determine this.

According to soil borings taken on-site by American Engineering Testing on April 16, 2001, groundwater elevations on the site range from approximately 862.8-865.3 feet above mean sea level. The hydrogeologic gradient onsite is unknown but may be estimated to be north given the Crow River is located north of the project site location.

The United States Department of Agriculture Soil Conservation Service, Minnesota Geological Survey, and Hennepin County Well Index were reviewed as part of the Phase I Environmental Site Assessment. No wells were observed onsite. If any wells are discovered on-site during construction, they must be sealed in accordance with the regulations of the Minnesota Department of Health (MDH). The site is not located within a Drinking Water Supply Management Area (DWSMA) or Wellhead Protection Area.

- **d.** Describe effects from project activities on water resources and measures to minimize or mitigate the effects in Item b.i. through Item b.iv. below.
 - 1) Wastewater For each of the following, describe the sources, quantities and composition of all sanitary, municipal/domestic and industrial wastewater produced or treated at the site.
 - 2) If the wastewater discharge is to a publicly owned treatment facility, identify any pretreatment measures and the ability of the facility to handle the added water and waste loadings, including any effects on, or required expansion of, municipal wastewater infrastructure.

Wastewater from the proposed development will discharge to the City of Rogers trunk line located south of the proposed site. Stubs from the existing sanitary sewer lift station will be extended for the proposed development. The City's sanitary sewer system collects wastewater within City limits and conveys water to the Rogers Wastewater Treatment Plant and the Elm Creek Interceptor for treatment and disposal. There are plans to construct the MCES Crow River Reclamation Plant which will supply additional wastewater treatment capacity for the cities of Rogers, Corcoran, and Dayton. The Rogers Wastewater Treatment Plant was expanded in 1996 to a capacity of 1.602 million gallons per day (MGD). The Rogers industrial Development site is expected to use 48,000 gallons per day. This flow rate is 3% of the capacity of the Rogers Wastewater Treatment Plant. The waste loading from the development is expected to closely match the composition of the existing wastewater loading to the treatment plant. Pretreatment measures only consist of those pretreatment measures prior to treatment at the wastewater treatment facility.

3) If the wastewater discharge is to a subsurface sewage treatment systems (SSTS), describe the system used, the design flow, and suitability of site conditions for such a system. If septic systems are part of the project, describe the availability of septage disposal options within the region to handle the ongoing amounts generated because of the project. Consider the effects of current Minnesota climate trends and anticipated changes in rainfall frequency, intensity, and amount with this discussion.

The wastewater discharge from the development will not discharge to a subsurface sewage treatment system. The industrial development will be connected to the municipal sanitary sewer system.

4) If the wastewater discharge is to surface water, identify the wastewater treatment methods and identify discharge points and proposed effluent limitations to mitigate impacts. Discuss any effects to surface or groundwater from wastewater discharges, taking into consideration

how current Minnesota climate trends and anticipated climate change in the general location of the project may influence the effects.

Sanitary sewer service will be provided by the City of Rogers from the south. Industrial buildings will connect via service connection to the sanitary sewer trunk line. The source of wastewater discharge from the site is expected to consist of the quantity and composition of wastewater typical of light industrial facilities. No effects to surface or groundwater are expected due to the wastewater being contained in the municipal sanitary sewer line.

i. Stormwater - Describe changes in surface hydrology resulting from change of land cover. Describe the routes and receiving water bodies for runoff from the project site (major downstream water bodies as well as the immediate receiving waters). Discuss environmental effects from stormwater discharges on receiving waters post construction including how the project will affect runoff volume, discharge rate and change in pollutants. Consider the effects of current Minnesota climate trends and anticipated changes in rainfall frequency, intensity, and amount with this discussion.

For projects requiring NPDES/SDS Construction Stormwater permit coverage, state the total number of acres that will be disturbed by the project and describe the stormwater pollution prevention plan (SWPPP), including specific best management practices to address soil erosion and sedimentation during and after project construction. Discuss permanent stormwater management plans, including methods of achieving volume reduction to restore or maintain the natural hydrology of the site using green infrastructure practices or other stormwater management practices. Identify any receiving waters that have construction-related water impairments or are classified as special as defined in the Construction Stormwater permit. Describe additional requirements for special and/or impaired waters.

Stormwater runoff for the existing conditions flows into the Crow River to the north. The topography in the area is higher along the south end of the project area and slopes downhill to the river. There are no existing areas with impervious surfaces.

The proposed project will be designed to meet the stormwater quantity and quality standards and requirements set by the Elm Creek Watershed Management Commission (ECWMC) and the City of Rogers. The ECWMC reviews grading, stormwater, erosion and sediment control. In addition to the ECWMC requirements, the City's zoning and stormwater management code plays a critical role in preserving natural resources.

Permanent stormwater Best Management Practices (BMPs) will be designed to manage the site's stormwater runoff and may include surface infiltration basins and surface sedimentation basins. These BMPs will aid in minimizing environmental impacts of rising average, maximum, and minimum temperatures, along with increasing average annual precipitation. BMPs provide additional water storage onsite to provide rate, volume, and water quality control before runoff discharges to downstream received waters. The proposed stormwater design will be compliant with City and watershed plans to integrate changing rainfall frequency, intensity, and amount into development requirements.

According to the geotechnical boring logs completed by American Engineering Testing in April 2001, existing soils in preliminary BMP locations consist of sand, sand with silt, and silty sand. These soils are hydrologic soil group (HSG) A and suitable for infiltration. The bottoms of proposed basins will be designed to provide required separation from the bottom of basin to groundwater elevation.

Catch basins and storm sewer pipes convey the stormwater runoff to those systems. Temporary

erosion and sediment control BMPs will be utilized during construction to ensure disturbed soil does not run off the site to surface waters or storm sewers. The project stormwater pollution prevention plan (SWPPP) ensures that the construction contractor follows proper procedures to prevent polluting stormwater runoff from the site during construction activity. The contractor and designer are encouraged to limit tree removal from the site to aid in the retention of stormwater, as older trees are much more efficient at retaining rainfall than young trees. The City of Rogers will require a maintenance agreement to ensure the permanent stormwater BMPs are maintained in the long term.

The project meets the requirements of the National Pollutant Discharge Elimination System/State Disposal System (NPDES/SDS) General Construction Stormwater (CSW) Permit, as it will disturb more than one acre of land. The CSW permit requires inactively worked soil to be stabilized within 7 days of disturbance, even if construction activity will resume in the area, because there is an impaired water within one mile of the proposed site area. The Crow River borders the northern property line of the project area and is impaired for benthic macroinvertebrates bioassessments, fecal coliform, fish bioassessments, nutrients, and turbidity. Foster lake is approximately 0.84 miles from the project site and is impaired for nutrients. See **figure 14** for impaired waters within 1 mile of the project area.

The CSW permit requires the maintenance of 50 feet of undisturbed existing buffer to existing water bodies during construction. If construction encroaches the buffer, then redundant downgradient sediment controls must be installed to protect these water bodies during construction. These requirements must be listed in the project's SWPPP. If the lots are sold to other parties to complete construction on individual lots, the owner must supply a SWPPP to the new owner specifying required stormwater BMPs and CSW Permit coverage must be obtained by the new owner for their portion of the site via the Subdivision Registration process.

With the project proposes an increase in impervious surface, it can be expected that the amount of road and sidewalk salt used will slightly increase in the project area. Chloride released into local waterbodies does not break down and accumulates in the environment. At high enough levels, this can be harmful to aquatic plants and wildlife. The MPCA offers a Smart Salting Training program to encourage responsible usage of road salts. There are a variety of classes available for road salt applicators. The City is encouraged to provide public outreach to reduce the overuse of chloride.

ii. Water appropriation - Describe if the project proposes to appropriate surface or groundwater (including dewatering). Describe the source, quantity, duration, use and purpose of the water use and if a DNR water appropriation permit is required. Describe any well abandonment. If connecting to an existing municipal water supply, identify the wells to be used as a water source and any effects on, or required expansion of, municipal water infrastructure. Discuss environmental effects from water appropriation, including an assessment of the water resources available for appropriation. Identify any measures to avoid, minimize, or mitigate environmental effects from the water appropriation. Discuss how the proposed water use is resilient in the event of changes in total precipitation, large precipitation events, drought, increased temperatures, variable surface water flows and elevations, and longer growing seasons. Identify any measures to avoid, minimize, or mitigate environmental effects from the water appropriation. Describe contingency plans should theappropriation volume increase beyond infrastructure capacity or water supply for the project diminish in quantity or quality, such as reuse of water, connections with another water source, or emergency connections.

No water appropriation will occur during the operational lifespan of the proposed project. If water for dust control during construction is taken from streams, wetlands, or lakes in volumes

that exceed 10,000 gallons per day, or one million gallons per year, a DNR Water Appropriation Permit will be required. No products that contain chloride for dust control will be used in areas that drain to public waters. Construction dust control is required to be in conformance with City of Rogers's ordinances and the NPDES Construction Stormwater permit.

Domestic water use for the proposed project will be supplied through City of Rogers watermain. Existing 12" watermain is installed south of the project area and stubs will be extended for the proposed industrial development. The source for domestic water for the proposed project will be the City of Rogers which utilizes nine wells, two elevated storage facilities, and one ground storage reserve to provide capacity and flow for the expected demand. The City's 2040 comprehensive plan speculates additional water production and storage facilities will be required over the next 20 years as the city continues to grow and develop. The City of Rogers sources domestic water from wells connected to the Franconia-Ironton-Galesville formations. There is an annual Drinking Water Report which summarizes a years' worth of monitoring lead, copper, inorganic and organic contaminants.

iii. Surface Waters

as draining, filling, permanent inundation, dredging and vegetative removal. Discuss direct and indirect environmental effects from physical modification of wetlands, including the anticipated effects that any proposed wetland alterations may have to the host watershed, taking into consideration how current Minnesota climate trends and anticipated climate change in the general location of the project may influence the effects. Identify measures to avoid (e.g., available alternatives that were considered), minimize, or mitigate environmental effects to wetlands. Discuss whether any required compensatory wetland mitigation for unavoidable wetland impacts will occur in the same minor or major watershed and identify those probable locations.

A Minnesota Wetland Conservation Act Notice of Decision was submitted on November 4, 2022 for the Wetland Boundary onsite. Approximately 0.43 acres of wetland are located along the northern property line of the site aside the Crow River. See **Appendix C** for the Wetland Delineation Report. No commercial or industrial access to the wetland is proposed in the form of docks, bridges, or other pedestrian walkways.

To reduce indirect impacts to the wetland a 25 feet average and 10 feet minimum upland buffer will be established along the wetland boundary per the ECWMC rules, and all structures will have a 15 feet setback from the buffer strip. Upland buffers along wetlands have been proven to reduce sedimentation, stormwater runoff, and the number of pesticides/herbicides that reach wetlands. If any disturbance occurs within the buffer during construction the buffer will be re-planted with native species suitable to the area. ECWMC will review the buffer strips for the proposed project in accordance with the Stormwater Management Rule I. Signage will be required along the edge of the wetland buffer indicating that it is a "no disturb area."

2) Other surface waters- Describe any anticipated physical effects or alterations to surface water features (lakes, streams, ponds, intermittent channels, county/judicial ditches) such as draining, filling, permanent inundation, dredging, diking, stream diversion, impoundment, aquatic plant removal and riparian alteration. Discuss direct and indirect environmental effects from physical modification of water features. Identify measures to avoid, minimize, or mitigate environmental effects to surface water features, including in-water Best Management Practices that are proposed to avoid or minimize turbidity/sedimentation while physically altering the water features. Discuss how the project will change the number or type

of watercraft on any water body, including current and projected watercraft usage.

All waters within the project area have been discussed above.

13. Contamination/Hazardous Materials/Wastes

a. Pre-project site conditions - Describe existing contamination or potential environmental hazards on or near the project site such as soil or ground water contamination, abandoned dumps, closed landfills, existing or abandoned storage tanks, and hazardous liquid or gas pipelines. Discuss any potential environmental effects from pre-project site conditions that would be caused or exacerbated by project construction and operation. Identify measures to avoid, minimize or mitigate adverse effects from existing contamination or potential environmental hazards. Include development of a Contingency Plan or Response Action Plan.

A Phase I Environmental Site Assessment for the project area was completed in April 2001 (**Appendix D**). No instances of existing contamination or potential environmental hazards were identified in the project area. Past land uses include agricultural activities. Past land use activities may have included the application of pesticides and herbicides; however, no soil or groundwater contamination was identified or anticipated with this project.

b. Project related generation/storage of solid wastes - Describe solid wastes generated/stored during construction and/or operation of the project. Indicate method of disposal. Discuss potential environmental effects from solid waste handling, storage, and disposal. Identify measures to avoid, minimize or mitigate adverse effects from the generation/storage of solid waste including source reduction and recycling.

Construction of the proposed project will result in the generation of solid waste and construction waste material. All waste and unused building materials will be properly disposed of off-site.

During project operation, municipal solid waste will be hauled away by a local, licensed garbage hauler and new commercial and industrial tenants will be encouraged to recycle.

c. Project related use/storage of hazardous materials - Describe chemicals/hazardous materials used/stored during construction and/or operation of the project including method of storage. Indicate the number, location, and size of any above or below ground tanks to store petroleum or other materials. Indicate the number, location, size, and age of existing tanks on the property that the project will use. Discuss potential environmental effects from accidental spill or release of hazardous materials. Identify measures to avoid, minimize or mitigate adverse effects from the use/storage of chemicals/hazardous materials including source reduction and recycling. Include development of a spill prevention plan.

During construction and operation of the project, vehicles containing gasoline will be present on site. Minimal amounts of gasoline may be stored on site in approved containers with secondary leak protection. Toxic or hazardous materials present after construction will be consistent with commercial and industrial uses and may include pesticides and herbicides. If storage tanks for commercial and industrial hazardous materials are proposed, they will be constructed and contained in accordance with City standards. The potential for contamination is low. No above or below ground tanks will be stored onsite following construction.

d. Project related generation/storage of hazardous wastes - Describe hazardous wastes generated/stored during construction and/or operation of the project. Indicate method of disposal. Discuss potential environmental effects from hazardous waste handling, storage, and disposal. Identify measures to avoid, minimize or mitigate adverse effects from the generation/storage of hazardous waste including source reduction and recycling.

Construction of the project will not involve the generation of significant amounts of hazardous waste. Hazardous waste generated will be properly disposed of in accordance with state and federal law. The Minnesota Pollution Control Agency requires any business generating hazardous waste to complete a hazardous waste generator license. All state and federal laws will be followed during construction and operation of these facilities.

14. Fish, wildlife, plant communities, and sensitive ecological resources (rare features)

a. Describe fish and wildlife resources as well as habitats and vegetation on or in near the site.

The project area consists of a variety of habitats and vegetation including wetlands, trees, and cropland. The surrounding properties consist of single-family residential developments, commercial facilities, and industrial facilities. No regionally significant ecological areas or Minnesota County Biological Survey Sites of Biodiversity Significance are identified on the project area or the adjacent properties.

According to the DNR's Ecological Classification System, the project area is located within historic Eastern Broadleaf Forest province, Minesota & Iowa Morainal section, and Big Woods subsection.

The land surface of the Eastern Broadleaf Forest province is largely the product of Pleistocene glacial processes. The northwestern and central portions of the province were covered by ice in the last glaciation and are characterized by thick (100–300 feet) deposits of glacial drift. Eastern Broadleaf Forest Province coincides roughly with the part of Minnesota where precipitation approximately equals evapotranspiration. This aspect of climate has an important influence on plants, as many forest species reach their western range limits and several prairie species reach their eastern range limits within the province.

The pre-settlement pattern of upland vegetation in the Minnesota & Iowa Morainal section reflects substrate texture and landform topography. These features affected plants directly through their influence on moisture and nutrient availability, insulation, and local temperature, and indirectly through their influence on the frequency and severity of fires. Sandy flat areas were dominated by prairie, savanna, and oak and aspen woodlands. Woodland and forest dominated sites in the section where fire was uncommon or rare. Fine-textured drift deposited in hummocky moraines supported mesic forests dominated by sugar maple, basswood, American elm, and northern red oak. Even small reductions in fire frequency afforded by streams, lakes, or topographic breaks permitted the formation of forest on finer-textured soils, and once formed these forests were highly resistant to burning. Floodplain and terrace forests were present historically along the valleys of the major rivers, the Mississippi, Minnesota, and St. Croix, and are still prominent today along many stretches of these rivers. Forests of silver maple occupy the active floodplains, while forests of silver maple, cottonwood, box-elder, green ash, and elm occupy terraces that flood infrequently. These valleys are also characterized by herbaceous and shrubby river shore communities along shorelines and on sand bars, and in some areas by cliff communities on steep rocky river bluffs.

The Big Woods subsection coincides with a large block of deciduous forest present at the time of Euro-American settlement. West of the subsection, tallgrass prairie was the primary vegetation, suggesting basic differences in climate, topography, and natural disturbance. Topography characteristically is gently to moderately rolling across this subsection. Soils are formed in thick deposits of gray limey glacial till left by the Des Moines lobe. Northern red oak, sugar maple, basswood, and American elm were most common in this dominantly forested region. Presently, most of the region is farmed. The primary landform is a loamy mantled end moraine associated with the Des Moines lobe of the Late Wisconsin glaciation. Parts of the moraine have ice disintegration features. The dominant landscape feature is circular, level topped hills bounded by smooth side slopes. Broad level areas between the hills are interspersed with closed depressions containing lakes and peat bogs. According to the Big Woods subsection profile, examples of species within the subsection in greatest need of conservation include common mud puppy, cruelean

warbler, least darter, western harvest mouse, mucket, and eastern racer. More than 75% of the current land use for the Big Woods subsection is cropland, with an additional 5 to 10% pasture. The remaining 10 to 15% of the subsection remains as either upland forest or wetland.

b. Describe rare features such as state-listed (endangered, threatened or special concern) species, native plant communities, Minnesota County Biological Survey Sites of Biodiversity Significance, and other sensitive ecological resources on or within close proximity to the site. Provide the license agreement number (LA-____) and/or correspondence number (MCE # 2023-00673) from which the data were obtained and attach the Natural Heritage letter from the DNR. Indicate if any additional habitat or species survey work has been conducted within the site and describe the results.

The Minnesota Department of Natural Resources (MNDNR) reviewed the Natural Heritage Information System (NHIS) to determine if any rare natural features could be impacted by the proposed project. Correspondence dated August 30, 2023 (Correspondence MCE # 2023-00673) (**Appendix B**) indicates the following state-listed species of special concern may be adversely affected by the proposed project:

• Black Sandshell (*ligumia recta*). This invertebrate animal lives in large rivers and medium-size streams.

The NHIS did not contain any records for federally listed species within one mile of the proposed site.

In addition to the information provided by the MNDNR, the U.S. Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) tool was used to identify other potential sensitive resources near the project. The IPaC identifies the northern long-eared bat (*Myotis septentrionalis*) (NLEB), the tricolored bat (*Perimyotis subflavus*), the whooping crane (*Grus Americana*), and the monarch butterfly (*Danaus plexippus*) as potentially being within the vicinity of the project area.

c. Discuss how the identified fish, wildlife, plant communities, rare features and ecosystems may be affected by the project including how current Minnesota climate trends and anticipated climate change in the general location of the project may influence the effects. Include a discussion on introduction and spread of invasive species from the project construction and operation. Separately discuss effects to known threatened and endangered species.

The black sandshell is usually found in the riffle and run areas of medium to large rivers in areas dominated by sand or gravel. Members of this mussel species may live for several decades and in some instances, a century or more. They spend most of their lives buried in the bottom sediments of permanent water bodies, and often live in multi-species communities called mussel beds. Mussels eat by filtering bacteria, protozoans, algae, and other organic matter out of the water. They draw water into their body through their incurrent siphon, remove food and oxygen with their gills, and then expel the filtered water through their excurrent siphon. Food particles are carried to the mussel's mouth by tiny hairlike cilia located on the gills.

Degradation of mussel habitat in streams throughout the black sandshell's known range is a continuing threat to this species. Declines in habitat conditions are associated with management of the Mississippi River as a navigational canal, and with non-point source water pollution and sediment pollution. Dams, channelization, and dredging increase siltation, physically alter habitat conditions, and block the movement of fish hosts. The black sandshell is also being impacted by the infestation of non-native zebra mussels (Dreissena polymorpha) in the Mississippi River and its tributaries. Zebra mussels can attach themselves in large numbers to the shells of native mussels, eventually causing death by suffocation. Further survey work in rivers where the black sandshell was formerly documented is needed to verify its status in the remainder of its historical range. To avoid impacts to the black sandshell, proper erosion and sediment control practices will be implemented and maintained during

construction of this project and will be incorporated into a stormwater management plan. The bounds of the wetland located onsite will not be disturbed to maintain as much natural habitat as possible. The black sandshell can also be sensitive to the impacts of climate change such as rising average, maximum, and minimum temperatures along with average increased annual precipitation. Rising water levels and droughts may lead to decreased habitat and unsuitable air and water temperatures.

The northern long eared bat (NLEB) was recently (March 31, 2023) recognized as a federally endangered species. The habitat of the NLEB in Minnesota is natural caves, sand mines, and iron mines in the winter and forested habitats near water in the summer. The bats have also been found roosting in man-made structures such as barns and sheds. There are no existing buildings located onsite and caves and mines are not present in the proposed project area. No surface carbonite features are located within the project area. The US Fish and Wildlife list of townships containing documented NLEB maternity roost trees and/or hibernacula entrances in Minnesota does not identify any hibernacula or roost trees near the project area.

Tricolored bats hibernate in caves, mines, and tunnels in the winter, and generally roost singly, often in trees in the summer. Maternity colonies have not been found in Minnesota, but elsewhere they have been found in trees, rock crevices, barns, or other buildings. Because no colonies have been found in Minnesota, the likelihood of the proposed project disturbing habitat for the tricolored bat is low. Tricolor bat habitats of caves are mines are not present on the proposed project area. The tricolor bat is under a proposal to be listed as an endangered species.

The whooping crane is an endangered species and currently exist in the wild at 3 locations (Aransas Buffalo-Woods National Park, central Florida, eastern Wisconsin) and in captivity at 12 sites. The proposed project site falls within the migratory path for the eastern Wisconsin population, but given the population size and migratory area, the chances of the project disturbing habitat for the birds are unlikely. Whooping crane habitat includes coastal marshes and estuaries, inland marshes, lakes, open ponds, shallow bays, salt marsh and sand or tidal flats, upland swales, wet meadows and rivers, pastures, and agricultural fields. The proposed project area does include agricultural fields and wetlands. The majority of existing agricultural field will be replaced for the proposed project development and landscaped areas. Historic wetlands will be protected to preserve habitat.

Monarch butterflies lay their eggs on milkweed (*Asclepias speciosa*) hosts year-round and migrate to warmer climates during the fall. Additional habitat needs for adult monarchs include flowering plants and nectar corridors. The existing ground cover of the proposed site consists of turf grass and cropland, neither of which contain abundance of milkweed or flowering plants. The monarch butterfly is under a proposal to be listed as an endangered species.

There is an opportunity for invasive weed species to be introduced during project construction; however, it is not anticipated that these species would persist following construction. The proposed project would be landscaped with turf grass and landscape trees and shrubs per a City-approved landscaping plan. Consequently, areas of exposed soil where invasive weed species might appear are not anticipated. If areas of invasive species do develop, they would be controlled in accordance with local and state invasive and noxious weed regulations. There are no specific invasive species of concern for the proposed project area.

d. Identify measures that will be taken to avoid, minimize, or mitigate adverse effects to fish, wildlife, plant communities, and sensitive ecological resources.

To minimize impacts to the rare features noted above, the mitigation measures recommended by the MNDNR (**Appendix B**) will be implemented including:

• To avoid impacts to the Northern Long Eared Bat, tree removal should be avoided from June 1 through August 15. Winter tree clearing (November 15 to March 15) is recommended.

- River protection is vital to maintaining black sandshell populations. The bounds of the existing
 wetland between the project area and the river will be preserved on the proposed project to
 maintain existing habitat.
- Effective erosion and sediment control practices will be implemented and maintained during construction and incorporated into any stormwater management plans.
- If any construction equipment or materials encounter water, they must be decontaminated following the Equipment Cleaning to Minimize Invasive Species brochure from the DNR.

With implementation of these measures, impacts to rare features are not anticipated.

15. Historic properties

Describe any historic structures, archeological sites, and/or traditional cultural properties on or near the site. Include: 1) historic designations, 2) known artifact areas, and 3) architectural features. Attach letter received from the State Historic Preservation Office (SHPO). Discuss any anticipated effects to historic properties during project construction and operation. Identify measures that will be taken to avoid, minimize, or mitigate adverse effects to historic properties.

The SHPO was contacted regarding the potential for historic, cultural, or architectural resources on and near the site as part of the EAW process. SHPO conducted a search of the Minnesota Archaeological Inventory and Historic Structures Inventory on September 12, 2023. The result of this database search provided a listing of recorded archaeological sites and historic/architectural properties that are included in the current MN SHPO databases, the general vicinity of these sites has been mapped and can be found on **Figure 13**. The SHPO correspondence is included in **Appendix B**.

The project area is in the E ½ of the NW ¼, S11, T 120N, R 23W and the SE ¼ of the SW ¼, S2, T 120, R23W in Hennepin County, Minnesota. The parcels consist of cropland and trees with wetland separating the parcel from the crow river. Vegetation consisted of non-native grasses, trees, and bushes.

A total of 45.53 acres were inventoried by SHPO for the proposed project. No cultural resources were observed during this inventory of the proposed project. Therefore, a finding of "no historic properties" is recommended for the proposed project. If the applicable regulatory agencies agree with these findings, then a recommendation of 'no further work' is considered appropriate.

16. Visual

Describe any scenic views or vistas on or near the project site. Describe any project related visual effects such as vapor plumes or glare from intense lights. Discuss the potential visual effects from the project. Identify any measures to avoid, minimize, or mitigate visual effects.

The transformation of natural land into a developed area inevitably alters its visual appearance. The Rogers Industrial Development is not expected to detrimentally affect the scenic views from State Highway 101. To mitigate the overall visual changes typically associated with development, the project will incorporate screen of truck entrances, dumpsters, and other areas identified through the site plan review process. In addition, the site will be improved with extensive landscaping, particularly in areas that provide a natural buffer from adjacent developments.

Additionally, all lighting within the development will be thoughtfully designed to minimize glare and will be equipped with shields to direct the light downward, preventing any disturbance to neighboring properties.

17. Air

a. Stationary source emissions - Describe the type, sources, quantities and compositions of any emissions from stationary sources such as boilers or exhaust stacks. Include any hazardous air pollutants, criteria pollutants, and any greenhouse gases. Discuss effects to air quality including any sensitive receptors, human health or applicable regulatory criteria. Include a discussion of any methods used assess the project's effect on air quality and the results of that assessment. Identify pollution control equipment and other measures that will be taken to avoid, minimize, or mitigate adverse effects from stationary source emissions.

No stationary source of air emissions is proposed as part of the project. Emissions from the heating and cooling units would be typical of other industrial and commercial buildings in the area. State law prohibits idling of trucks and equipment while parked or not-in-use during both construction of the project and operation of the facilities. Overnight parking is also prohibited.

b. Vehicle emissions - Describe the effect of the project's traffic generation on air emissions. Discuss the project's vehicle-related emissions effect on air quality. Identify measures (e.g. traffic operational improvements, diesel idling minimization plan) that will be taken to minimize or mitigate vehicle-related emissions.

The most critical pollutant associated with vehicular traffic in Minnesota is carbon monoxide (CO). Carbon monoxide (CO) is one of five vehicle emission pollutants for which the US Environmental Protection Agency has standards. CO is a colorless, odorless, and tasteless toxic gas produced by the incomplete burning of carbon in fuel. Motor vehicle emissions will be associated with vehicles traveling to and from the development site, and from construction equipment necessary for the proposed construction activities. Following project completion, vehicle-related air emissions in the area—including carbon monoxide levels—will see a relatively small increase due to the increase in traffic to and from the site.

In general, concentrations of carbon monoxide are typically greatest at intersections with poor levels of service because of excessive idling or acceleration of vehicles. Levels of service at area intersections will remain consistent following this project.

c. Dust and odors - Describe sources, characteristics, duration, quantities, and intensity of dust and odors generated during project construction and operation. (Fugitive dust may be discussed under item 16a). Discuss the effect of dust and odors in the vicinity of the project including nearby sensitive receptors and quality of life. Identify measures that will be taken to minimize or mitigate the effects of dust and odors.

The project will not generate significant odors during construction or operation. Odors generated during construction will be mitigated by maintenance of the construction equipment to the manufacturers' specifications and by using appropriate fuel additives when necessary. Grading and construction will temporarily generate dust. BMPs and other standard construction methods will be used to reduce construction impacts such as intermittent applications of water to exposed soils as needed to reduce dust during dry weather.

18. Greenhouse Gas (GHG) Emissions/Carbon Footprint

a. GHG Quantification: For all proposed projects, provide quantification and discussion of project GHG emissions. Include additional rows in the tables as necessary to provide project-specific emission sources. Describe the methods used to quantify emissions. If calculation methods are not readily available to quantify GHG emissions for a source, describe the process used to come to that conclusion and any GHG emission sources not included in the total calculation.

The greenhouse gas emissions from the proposed Rogers Industrial Development project are provided on an annual basis using the carbon dioxide (CO₂) equivalent and include the best estimate of average annual emissions from the construction and operating phases. Emissions were estimated using the US Environmental Protection Agency's Simplified Greenhouse Gas Emissions Calculator and are summarized in the tables below by project phase and source type. The complete printout of the GHG Emission Calculator may be found in **Appendix F.**

Construction emissions are from mobile equipment, including passenger cars, light duty trucks, medium duty trucks, heavy duty trucks, and construction equipment. Emissions from cooling and refrigeration systems are not included in the analysis of GHG emissions as emissions from refrigerants are approximately less than five percent of the total emissions of a building according to the Practice Health Greenhouse Gas Reduction Toolkit.

The emission calculations below are from the EPA Greenhouse Gas Equivalencies Calculator and based on typical construction equipment used for a project of this size and duration. While specific equipment on site may vary slightly based the construction needs at the time of building, the emissions amount per equipment type are based on EPA data.

Scope	Type of Emission	Emission Sub-type	Project-related CO2eEmissions (tons/year)	Calculation method(s)
Scope 1	Combustion	Mobile	9.415	EPA Simplified Greenhouse Gas
		Equipment		Emissions Calculator
TOTAL			9,415	

Scope	Type of	Emission	Project-related CO2e Emissions (tons/year)	Calculation
Scope 1	Combustion	Stationary equipment		EPA Simplified Greenhouse Gas Emissions Calculator
Scope 2	Off-site electricity	Grid-based	•	EPA Simplified Greenhouse Gas Emissions Calculator
Scope 3	Off-site waste management	Area	3,739	EPA Simplified Greenhouse Gas Emissions Calculator.

b. GHG Assessment

i. Describe any mitigation considered to reduce the project's GHG emissions.

Mitigation considerations to reduce greenhouse gas emissions on the proposed project may include use of energy efficient appliances, equipment and lighting, use of energy efficient building materials, encouragement of alternative forms of transportation to and from the proposed site, implementation of waste best management practices to recycle and compost appropriate materials, landscaping to improve air quality and absorb greenhouse gasses, and providing electric vehicle charging infrastructure.

ii. Describe and quantify reductions from selected mitigation, if proposed to reduce the

project's GHG emissions. Explain why the selected mitigation was preferred.

Potential mitigation items will be selected based on practicability during design and construction.

iii. Quantify the proposed projects predicted net lifetime GHG emissions (total tons/#of years) and how those predicted emissions may affect achievement of the Minnesota Next Generation Energy Act goals and/or other more stringent state or local GHG reduction goal.

The Next Generation Energy Act requires the state to reduce greenhouse gas emissions by 80 percent between 2005 and 2050 while supporting clean energy, energy efficiency, and supplementing other renewable energy standards in Minnesota. The expected lifespan of the proposed Rogers Industrial Development project is 50 years. This equates to a total estimated carbon dioxide equivalent emission of 521,960 metric tons including construction and operation phases.

Annual Construction Emissions*Years of Construction + Project Life Emissions*Project Lifetime=Net Lifetime Emissions

(9,415*4)+(1,386+4,561+3,739)*50 = 521,960

The project contractor will evaluate potential emission reduction practices to reduce operational emissions to the extent practicable and the project will be built in accordance with federal and state regulations and to the City code.

19. Noise

Describe sources, characteristics, duration, quantities, and intensity of noise generated during project construction and operation. Discuss the effect of noise in the vicinity of the project including 1) existing noise levels/sources in the area, 2) nearby sensitive receptors, 3) conformance to state noise standards, and 4) quality of life. Identify measures that will be taken to minimize or mitigate the effects of noise.

Grading and construction will temporarily generate an increase in noise level and vary in intensity based on the type of construction equipment being used (see **Table 9**). To minimize the effects of noise pollution, construction volumes and work hours will adhere to the City's noise ordinances. Mufflers will be used on equipment used during demolition and construction activities. Additionally, BMPs and other standard construction methods will be used to reduce construction impacts such as limiting hours of operation to comply with the noise regulations in City ordinance. Construction noise will be limited to daytime hours consistent with the City of Rogers's construction and noise ordinances.

After construction is completed, the proposed development will decrease noise pollution in residential communities coming from State Highway 101 by acting as a "sound wall". Industrial buildings, oriented north/south, will shield automotive noise and for the residential developments along Raspberry Drive, located west of the proposed project area. In addition, landscaping on site, including trees, vegetation, and berms will help reduce noise. The nearest parking area to the residential areas to the west will be approximately 250 feet from the nearest house and the nearest building will be approximately 320 feet. Both exceed the City's setback requirements.

Since this land is zoned for industrial development, this project is not asking for any variances or special considerations regarding noise, landscaping, or height regulations. All City codes will be followed during construction and operation of the facilities. In addition, the building on the west side of the property will not have loading bays that face residential neighbors to further reduce noise during business operations.

Minnesota law, 7030.0040 NOISE STANDARDS, regulates the non-construction noise on all industrial sites in the state. The maximum noise allowable by law at this development during the day is 70dB and at night is 65dB. This project will comply with state law regarding noise limits.

Equipment Type	Peak Noise Level	Average During Use
Backhoe	74-92 dB	83
Dozer	65-95dB	85
Front Loader	75-96 dB	85
Grader	72-92 dB	84
Pile Driver	95-105 dB	101
Scraper	76-98 dB	87

20. Transportation

a. Describe traffic-related aspects of project construction and operation. Include: 1) existing and proposed additional parking spaces, 2) estimated total average daily traffic generated, 3) estimated maximum peak hour traffic generated and time of occurrence, 4) indicate source of trip generation rates used in the estimates, and 5) availability of transit and/or other alternative transportation modes.

The existing site is currently vacant agricultural land. The proposed development has the potential to provide up to 688 parking spaces, not including the truck loading bay areas. The proposed development is expected to generate approximately 1,716 daily vehicular trips, of which, approximately 292 daily trips would be from heavy commercial vehicles (i.e., trucks). The proposed development is expected to generate approximately 207 a.m. peak hours (174 in/ 33 out) and 205 p.m. peak hour (44 in / 161 out). The a.m. peak hour represents 7 to 8 a.m. and the p.m. peak hour represents 4:30 to 5:30 p.m. The trip generation estimate for the proposed development was created using the ITE Trip Generation Manual, 11th Edition and used the preliminary fit plan as the basis for the estimate. A summary of the proposed development trip generation is provided in **Table 20.1.**

Table 20.1 Trip Generation Summary

Land Use Type (ITE Code)	Size	AM Peak Hour		PM Peak Hour		Doily	
Land Use Type (ITE Code)	Size	In	Out	In	Out	Daily	
Proposed Development							
Warehouse (150)	473,450 SF	62	18	24	61	810	
General Office (710)	83,550 SF	112	15	20	100	906	
Total (All Vehicles)	557 000 OF	174	33	44	161	1,716	
Total (Trucks)	557,000 SF	8	7	5	5	292	

b. Discuss the effect on traffic congestion on affected roads and describe any traffic improvements necessary. The analysis must discuss the project's impact on the regional transportation system. If the peak hour traffic generated exceeds 250 vehicles or the total daily trips exceeds 2,500, a traffic impact study must be prepared as part of the EAW. Use the format and procedures described in the Minnesota Department of Transportation's Access Management Manual, Chapter 5 (available at: http://www.dot.state.mn.us/accessmanagement/resources.html) or a similar local guidance.

Although the expected trip generation is below the EAW threshold for traffic generation, a traffic study was still prepared to assess the transportation impacts associated with the proposed development. The <u>draft Cote Industrial Development Traffic Study</u> dated October 17, 2023, is included in Appendix G for reference.

Results of the study indicated that all study intersections and approaches currently operate an acceptable LOS D or better during typical weekday a.m. and p.m. peak hours. There are existing minor queuing issues within the study area, although they do not present any significant operational issues from a capacity perspective and do not warrant any mitigation.

Under year 2026 build conditions, all study intersections and approaches are expected to continue to operate at an acceptable LOS D or better during typical weekday a.m. and p.m. peak hours. The overall change in operations resulting from the proposed development from an intersection delay perspective is relatively minimal and within acceptable industry standards. Note that the location most impacted by the proposed development will be the CR 144 (141st Avenue) and Northdale Boulevard intersection, with an average increase of two (2) to six (6) seconds of delay per vehicle during the a.m. and p.m. peak hours respectively. Southbound queues along Northdale Boulevard will extend up to approximately 360 feet during the p.m. peak hour, which will impact access to a few driveways in the area.

To limit any queuing impacts along Northdale Boulevard during the p.m. peak hour, the addition of a southbound right-turn lane and optimization of the intersection signal timing should be considered. With these changes, the Northdale Boulevard intersection would operate at an overall LOS B and the average and 95th percentile queues in the southbound direction would be approximately 160 feet and 260 feet, respectively. At this level of queues, impacts to the North 101 Business Park access would be minimal.

The northbound left-turn lane queuing issue at the CR 144 (141st Avenue) and James Road / Rogers Drive intersection is expected to continue, however the proposed development is not expected to significantly impact this intersection or its operation. Minor signal timing adjustments could help reduce these queues, but given the relatively short-turn lane, they cannot be fully mitigated without additional geometric modifications. Further discussion with Hennepin County should occur to determine if any modifications should be considered for this location given the relatively small impact of the proposed development.

A review of the proposed site plan does not indicate any major issues. Although special care should be taken to locate signage and landscaping to avoid creating any sight distance issues and truck maneuverability should be reviewed to limit potential internal circulation conflicts. There are no multimodal facilities along Northdale Boulevard, but preservation of right-of-way for a future multimodal facility should be considered.

c. Identify measures that will be taken to minimize or mitigate project related transportation effects.

As noted in the traffic study, the following mitigation was identified.

- Construct a southbound right-turn lane along Northdale Boulevard at CR 144 (141st Avenue);
 this modification may require reconfiguration of the existing traffic signal in this location.
- Optimize the signal timing at the CR 144 (141st Avenue) and Northdale Boulevard intersection, which may also involve reviewing overall corridor progression and signal timing along CR 144.
- Preserve right-of-way for a future multimodal facility along Northdale Boulevard.

Further discussion with area agencies should occur to determine what modifications should be considered, as well as their implementation timeframe and funding.

21. Cumulative potential effects

a. Describe the geographic scales and timeframes of the project related environmental effects that could combine with other environmental effects resulting in cumulative potential effects.

Any impacts to the environment will meet Federal, State, and Local regulations and will be mitigated as required; therefore, it is not anticipated that impacts from the development create any cumulative potential effect not already examine herein.

b. Describe any reasonably foreseeable future projects (for which a basis of expectation has been laid) that may interact with environmental effects of the proposed project within the geographic scales and timeframes identified above.

No other known development or redevelopment is planned adjacent to the proposed project site currently.

c. Discuss the nature of the cumulative potential effects and summarize any other available information relevant to determining whether there is potential for significant environmental effects due to these cumulative effects.

No known development or redevelopment is planned adjacent to the proposed project site currently. Development of the project is not anticipated to cause any future projects. Continued development of the area is always a possibility, but any such changes in land use on an adjacent site would be reviewed as required by the City, and if necessary, a separate environmental review may need to be completed as a part of such a redevelopment. At that point, the drivers of such a project would need to coordinate efforts and reviews with the Rogers Industrial Development site to identify cumulative impacts that cannot be identified at the present day.

22. Other potential environmental effects

If the project may cause any additional environmental effects not addressed by items 1 to 19, describe the effects here, discuss how the environment will be affected, and identify measures that will be taken to minimize and mitigate these effects.

No additional environmental effects have been identified.

RGU Certification

I hereby certify that:

- The information contained in this document is accurate and complete to the best of my knowledge.
- The EAW describes the complete project; there are no other projects, stages, or components other than those described in this document, which are related to the project as connected actions or phased actions, as defined at Minnesota Rules, parts 4410.0200, subparts 9c and 60, respectively.
- Copies of this EAW are being sent to the entire EQB distribution list.

Signature:	Date: 12/14/2023

Name: Brett Angell, City of Rogers

Appendix A



FIGURE 1 - REGIONAL LOCATION MAP



FIGURE 2 - PROJECT LOCATION

PROPOSED POND 2 1.67 AC PROPOSED POND 1 1.18 AC PROPOSED LOT 2 INDUSTRIAL BUILDING A 410'x850' 348,500 SF FUTURE INDUSTRIAL BUILDING 210'x800' 168,000 SF FUTURE EXPANSION 410′×380′ 50' RESIDENTIAL SETBACK 155,800 SF > 30' CORRIDOR SETBACK - 10' PARKING SETBACK

BOUNDARY LINE

WL WL WETLAND

STORMWATER POND

FEMA FLOOD ZONE

100 YEAR FLOOD PLAIN

IMPACTED 100 YEAR FLOOD PLAIN

AREAS
LOT 1
29.81 AC
LOT 2
II5.51 AC
GROSS LOT
45.38 AC
FLOOD PLAIN
NET DEVELOPABLE
38.91 AC
IMPERVIOUS (MAX 15%)
BUILDINGS
(55.1%) 20.09 AC
(34.0%) 612,311 SF

BUILDING COVERAGE LOT 1
BUILDING COVERAGE LOT 2
(24.8%) 3.86 AC

PARKING RATIOS INDUSTRIAL PARKING: I PER 2000 SF OFFICE: I PER 200 SF 85/15 FOR EACH BUILDING

STORMWATER PONDING

PARKING SUMMARYBUILDING AREAREQUIREDPROVIDEDPROPOSED BUILDING A348,500 SF411 STALLS218 STALLSBUILDING EXPANSION155,800 SF180 STALLS184 STALLSFUTURE BUILDING168,000 SF198 STALLS198 STALLS

(18.8%) 2.85 AC

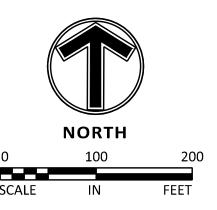
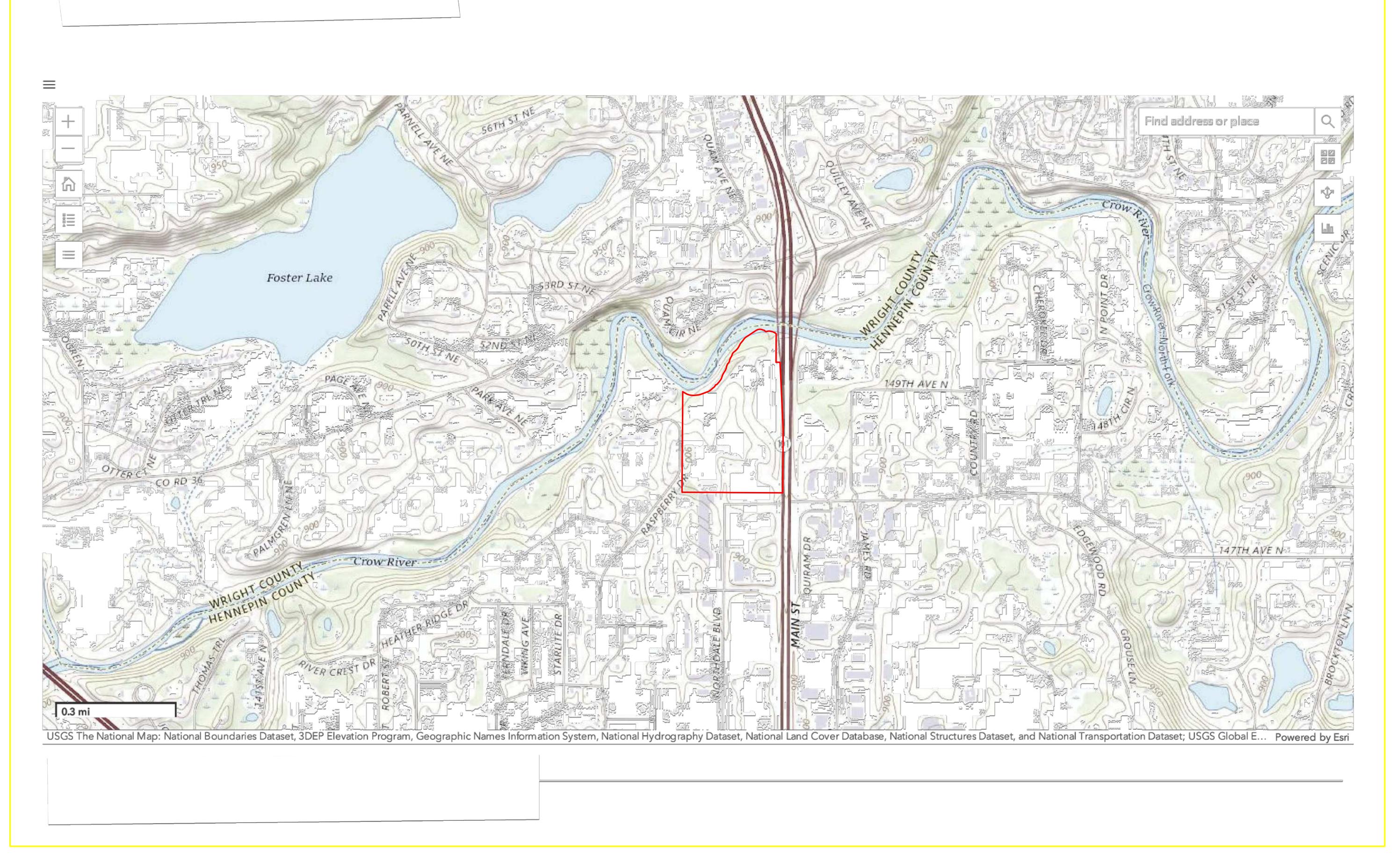


FIGURE 3 - CONCEPT SITE PLAN



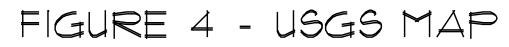




FIGURE 5 - EXISTING COVER TYPES

Custom Soil Resource Report

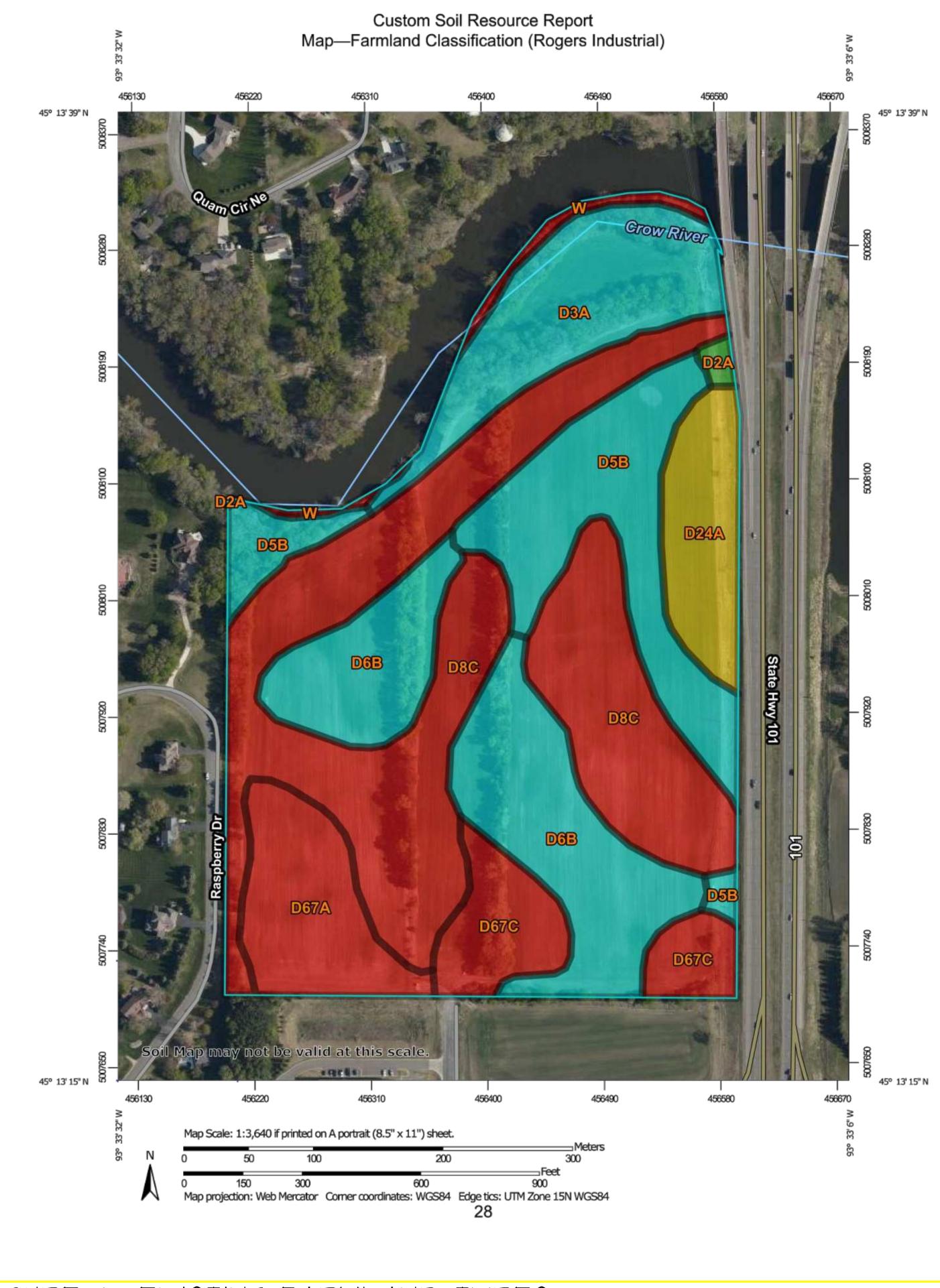
Table—Farmland Classification (Rogers Industrial)

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI	
D2A	Elkriver fine sandy loam, 0 to 2 percent slopes, rarely flooded	All areas are prime farmland	0.2	0.4%	
D3A	Elkriver fine sandy loam, 0 to 2 percent slopes, occasionally flooded	Farmland of statewide importance	5.2	10.7%	
D5B	Dorset-Two Inlets complex, 2 to 6 percent slopes	Farmland of statewide importance	7.2	14.7%	
D6B	Verndale sandy loam, 2 to 6 percent slopes	Farmland of statewide importance	8.9	18.0%	
D8C	Sandberg loamy sand, 2 to 12 percent slopes	Not prime farmland	17.2	35.0%	
D24A	Sedgeville loam, 0 to 2 percent slopes, occasionally flooded	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season	2.9	5.9%	
D67A	Hubbard loamy sand, 0 to 2 percent slopes	Not prime farmland	3.7	7.5%	
D67C	Hubbard loamy sand, 2 to 12 percent slopes	Not prime farmland	3.2	6.5%	
W	Water	Not prime farmland	0.6	1.2%	
Totals for Area of Interest			49.2	100.0%	

Rating Options—Farmland Classification (Rogers Industrial)

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower



32

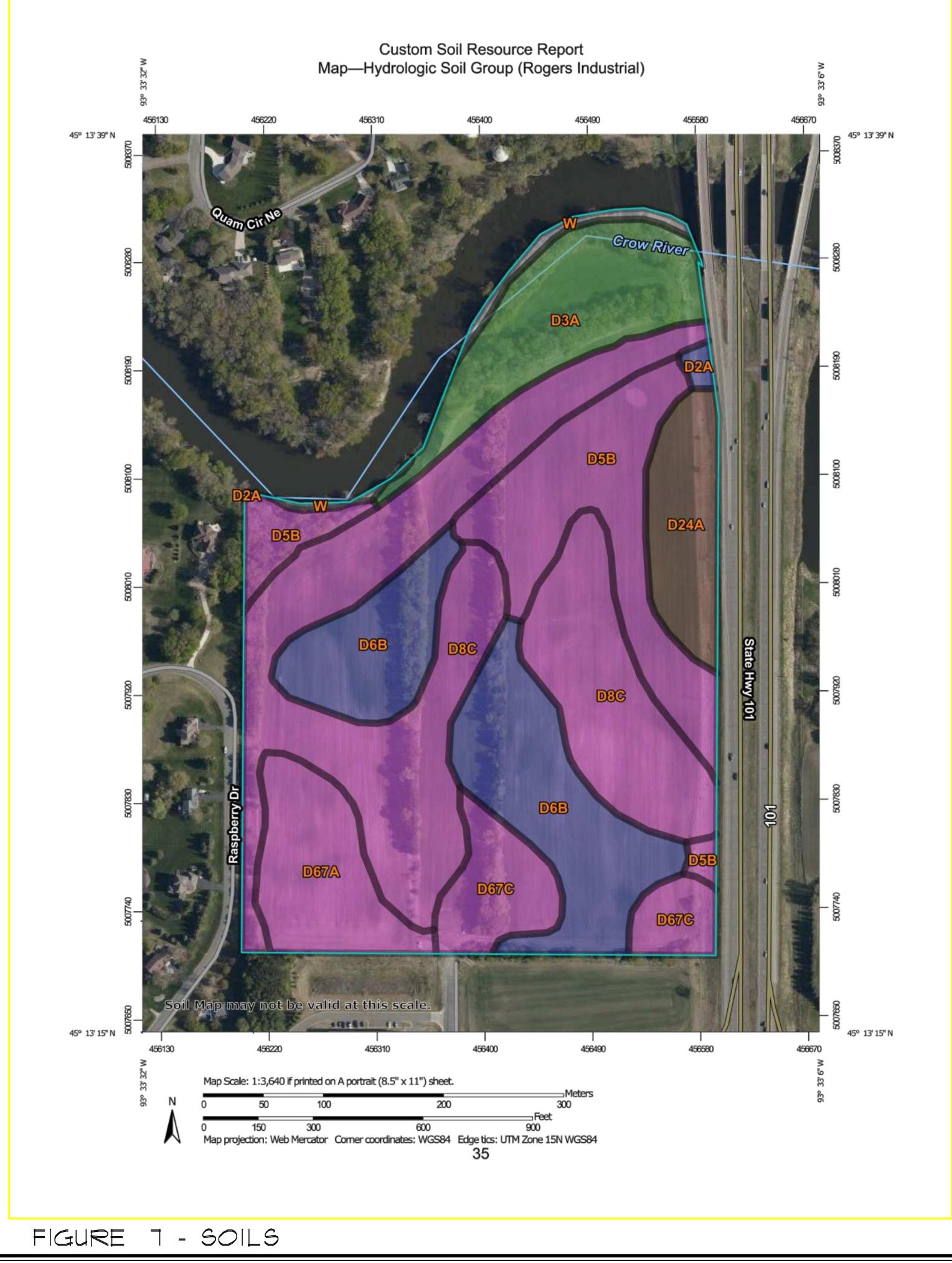
Table—Hydrologic Soil Group (Rogers Industrial)

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI	
D2A	Elkriver fine sandy loam, 0 to 2 percent slopes, rarely flooded	В	0.2	0.4%	
D3A	Elkriver fine sandy loam, 0 to 2 percent slopes, occasionally flooded	A/D	5.2	10.7%	
D5B	Dorset-Two Inlets complex, 2 to 6 percent slopes	A	7.2	14.7%	
D6B	Verndale sandy loam, 2 to 6 percent slopes	В	8.9	18.0%	
D8C	Sandberg loamy sand, 2 to 12 percent slopes	A	17.2	35.0%	
D24A	Sedgeville loam, 0 to 2 percent slopes, occasionally flooded	B/D	2.9	5.9%	
D67A	Hubbard loamy sand, 0 to 2 percent slopes	А	3.7	7.5%	
D67C	Hubbard loamy sand, 2 to 12 percent slopes	А	3.2	6.5%	
W	Water		0.6	1.2%	
Totals for Area of Interest			49.2	100.0%	

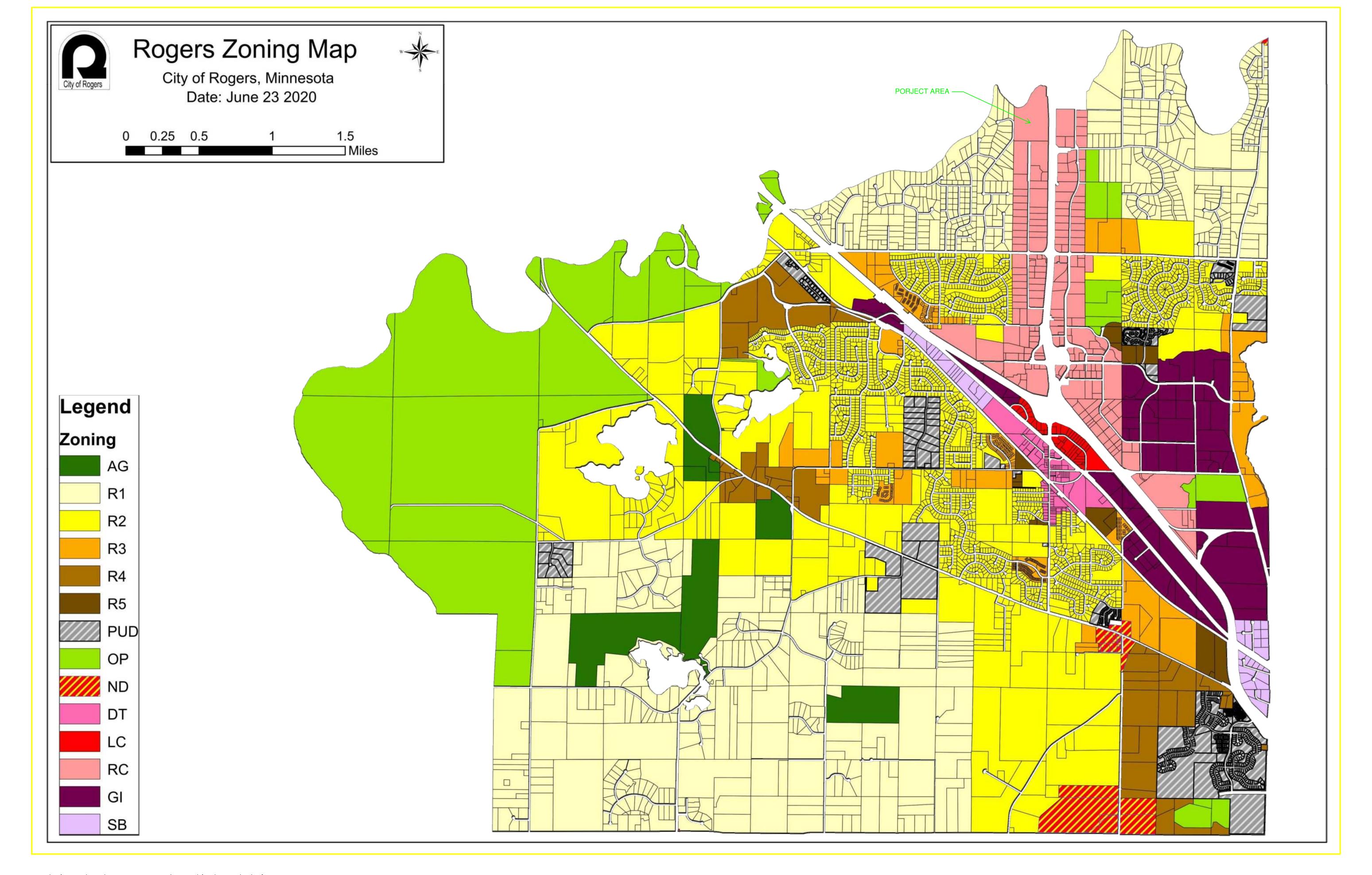
Rating Options—Hydrologic Soil Group (Rogers Industrial)

Aggregation Method: Dominant Condition Component Percent Cutoff: None Specified

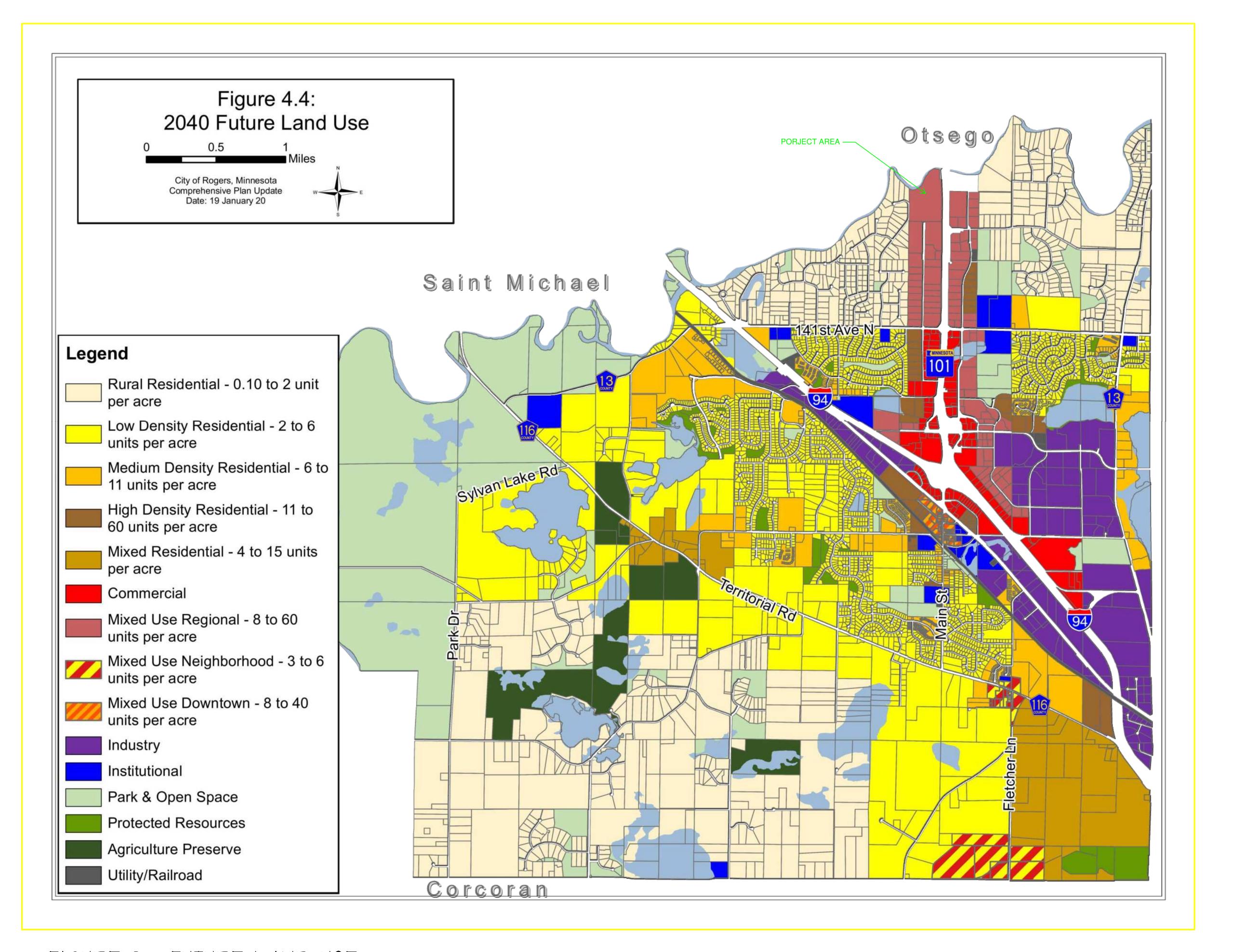
Tie-break Rule: Higher



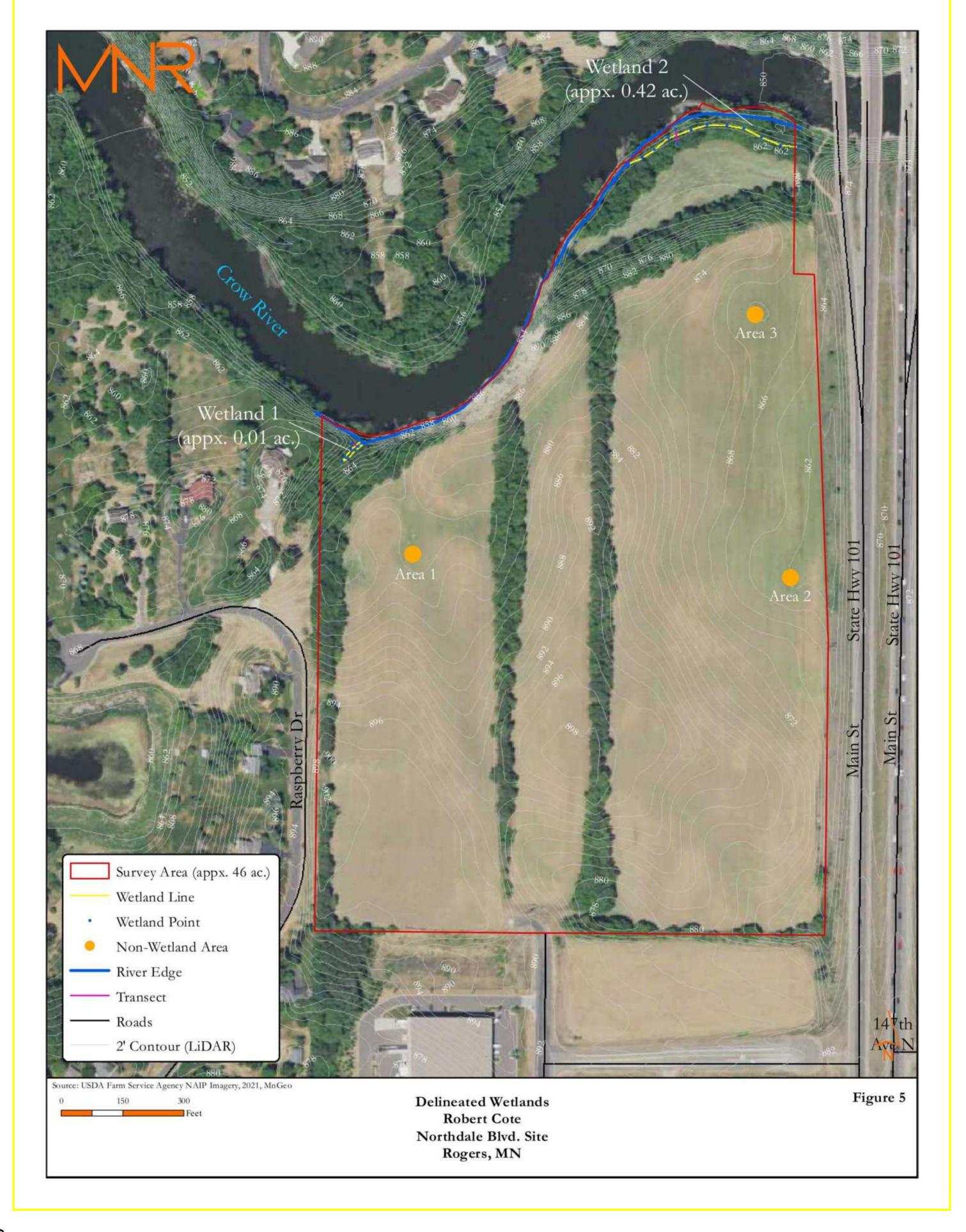












U.S. Fish and Wildlife Service National Wetlands Inventory

Rogers Industrial Site





Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

Other

Riverine

Lake

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper



NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' National Geodetic Vertical Datum of 1929 (NGVD 29). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Universal Transverse Mercator (UTM) zone 15. The horizontal datum was NAD 27, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in mapfeatures across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the National Geodetic Vertical Datum of 1929. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following and reserved.

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was provided in digital format by the Minnesota Department of Natural Resources. This information was photogrammetrically compiled at a scale of 1:12,000 from aerial photography dated 2010 or later.

The profile baselines depicted on this map represent the hydraulic modeling baselines

that match the flood profiles in the FIS report. As a result of improved topographic data,

the profile baseline, in some cases, may deviate significantly from the channel

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate

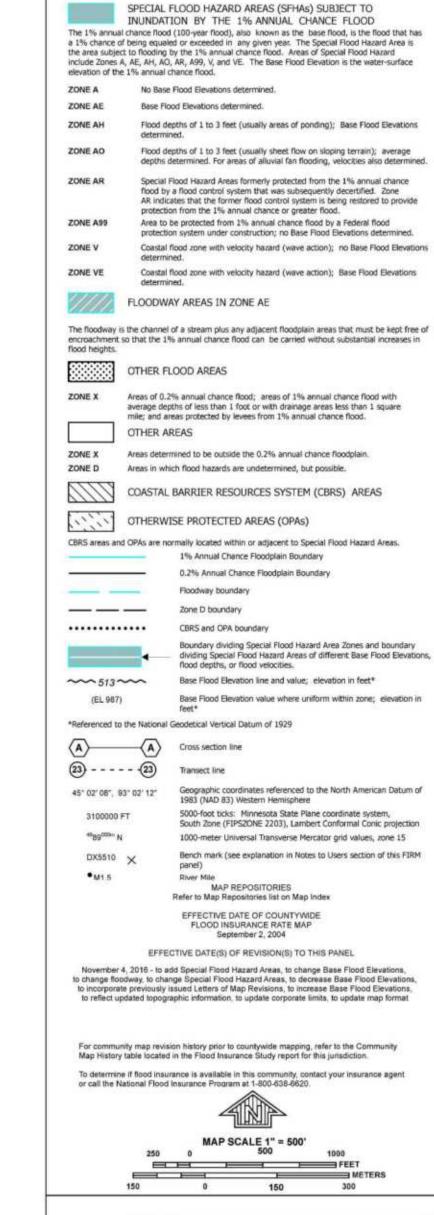
Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community

community officials to verify current corporate limit locations.

For information on available products associated with this FIRM visit the Map Service Center (MSC) website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.







LEGEND

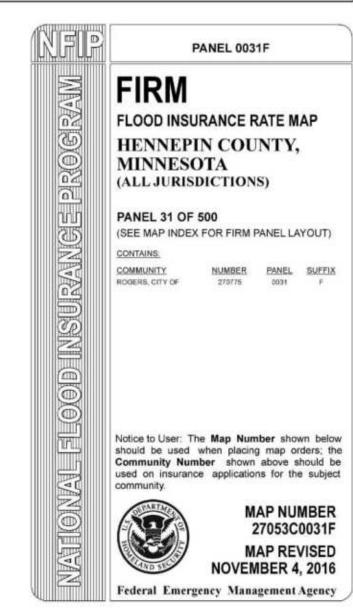


FIGURE 12 - FLOODPLAIN MAP





FIGURE 13 - HISTORIC/ARCHEOLOGICAL SITE LOCATIONS

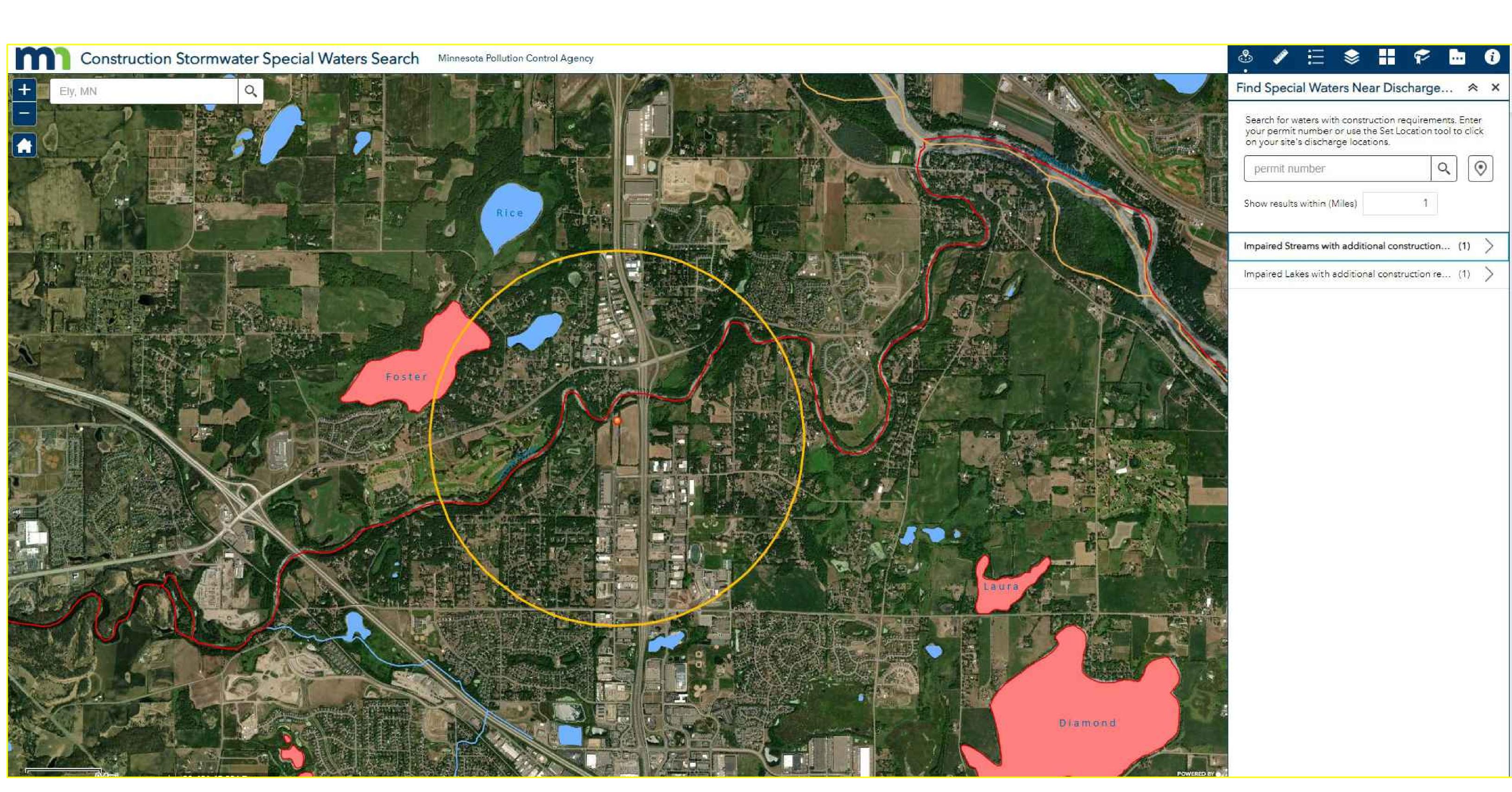


FIGURE 14 - IMPAIRED WATERS MAP

Appendix B

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location





Local office

Minnesota-Wisconsin Ecological Services Field Office

(952) 858-0793

(952) 646-2873

3815 American Blvd East



Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status</u> <u>page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME STATUS

Northern Long-eared Bat Myotis septentrionalis

Endangered

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/9045

Tricolored Bat Perimyotis subflavus

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/10515

Proposed Endangered

Birds

NAME STATUS

Whooping Crane Grus americana

EXPN

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/758

Insects

NAME

Monarch Butterfly Danaus plexippus

Candidate

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/9743

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and golden eagles are protected under the <u>Bald and Golden Eagle Protection Act</u> and the <u>Migratory Bird Treaty Act</u>.

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

Additional information can be found using the following links:

- Eagle Managment https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

There are bald and/or golden eagles in your project area.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME BREEDING SEASON

Bald Eagle Haliaeetus leucocephalus

Breeds Dec 1 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and

understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (I)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

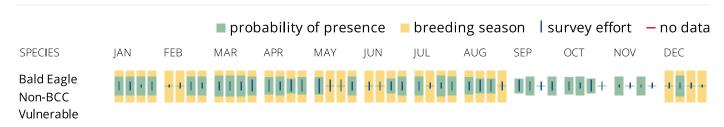
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply). To see a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the <u>Eagle Act</u> should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds
 https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME BREEDING SEASON

Bald Eagle Haliaeetus leucocephalus

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

Breeds Dec 1 to Aug 31

Black Tern Chlidonias niger

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/3093

Breeds May 20 to Jul 31

Breeds May 15 to Aug 20

Bobolink Dolichonyx oryzivorus

This is a Bird of Conservation Concern (BCC) throughout its

range in the continental USA and Alaska.

Canada Warbler Cardellina canadensis

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 20 to Aug 10

Cerulean Warbler Dendroica cerulea

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/2974 Breeds Apr 22 to Jul 20

Chimney Swift Chaetura pelagica

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Mar 15 to Aug 25

Golden-winged Warbler Vermivora chrysoptera

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8745

Breeds May 1 to Jul 20

Henslow's Sparrow Ammodramus henslowii

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3941 Breeds May 1 to Aug 31

Lesser Yellowlegs Tringa flavipes

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679

Breeds elsewhere

Red-headed Woodpecker Melanerpes erythrocephalus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 10 to Sep 10

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Wood Thrush Hylocichla mustelina

Breeds May 10 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (III)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (1)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

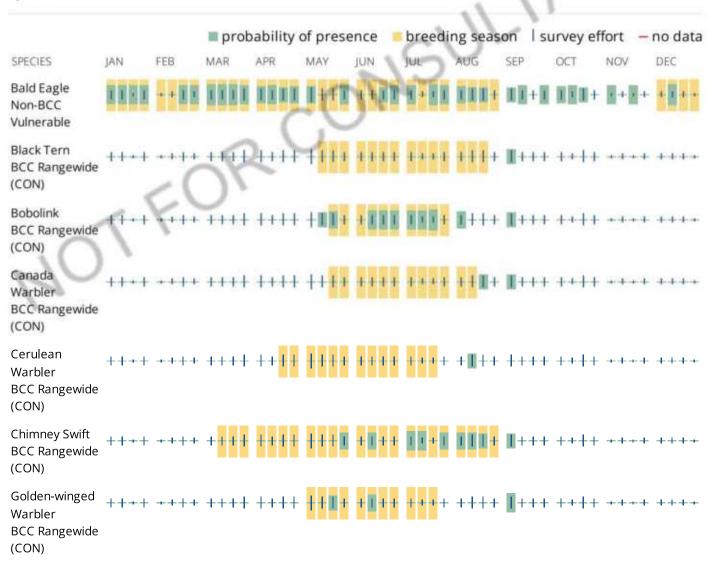
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

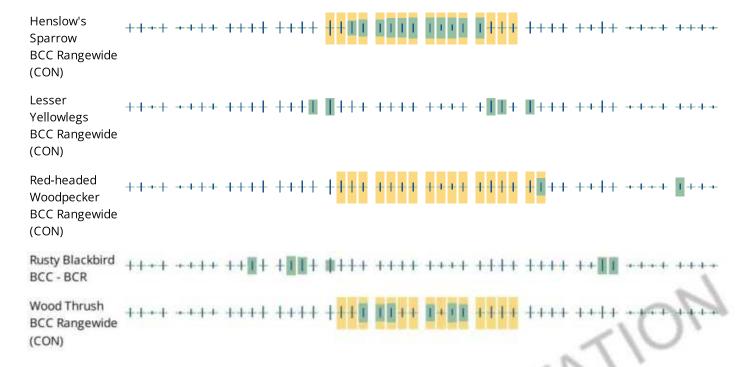
No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey, banding, and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, and <u>citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps</u> <u>of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

RIVERINE

R2UBH

A full description for each wetland code can be found at the <u>National Wetlands Inventory</u> website

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include

seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

JT FOR CONSULT



Formal Natural Heritage Review - Cover Page

See next page for results of review. A draft watermark means the project details have not been finalized and the results are not official.

Project Name: Rogers Industrial
Project Proposer: CP West, LLC

Project Type: Development, Commercial/Institutional/Industrial

Project Type Activities: Tree Removal; Grading; Waterbody or watercourse impacts (e.g., dewatering, discharge, excavation, fill, runoff, sedimentation, changes in hydrology)); Wetland impacts (e.g., dewatering, discharge, excavation, fill, runoff, sedimentation, changes in hydrology))

TRS: T120 R23 S11, T120 R23 S2

County(s): Hennepin, Wright

DNR Admin Region(s): Central

Reason Requested: State EAW

Project Description: The proposed Rogers Industrial project includes construction of three industrial

buildings in Rogers, MN. Driveway connections to the proposed facilities ...

Existing Land Uses: Existing land use consists of cropland, trees, and wetlands.

Landcover / Habitat Impacted: Clearing and grubbing of cropland will occur due to altering grades. Tree

removal will occur due to altering grades. a tree removal and replacement will ...

Waterbodies Affected: The site is bordered by the Crow River along the north and a wetland delineation

line runs along the northern property line. The project will provide floodplain ...

Groundwater Resources Affected: Not applicable

Previous Natural Heritage Review: No

Previous Habitat Assessments / Surveys: No

SUMMARY OF AUTOMATED RESULTS

Category	Results	Response By Category
Project Details	Comments	Tree Removal - Recommendations
Ecologically Significant Area	No Comments	No Further Review Required
State-Listed Endangered or Threatened Species	No Comments	No Further Review Required
State-Listed Species of Special Concern	Comments	Recommendations
Federally Listed Species	No Records	Visit IPaC For Federal Review



Minnesota Department of Natural Resources Division of Ecological & Water Resources 500 Lafayette Road, Box 25 St. Paul, MN 55155-4025

August 30, 2023

Project ID: MCE #2023-00673

Alessandra Stutz Sambatek, Inc. 12800 Whitewater Drive, Suite 300 Minnetonka, MN 55343

RE: Automated Natural Heritage Review of the proposed Rogers Industrial See Cover Page for location and project details.

Dear Alessandra Stutz,

As requested, the above project has been reviewed for potential effects to rare features. Based on this review, the following rare features may be adversely affected by the proposed project:

Project Type and/or Project Type Activity Comments

• The Natural Heritage Information System (NHIS) tracks bat roost trees and hibernacula plus some acoustic data, but this information is not exhaustive. Even if there are no bat records listed below, all seven of Minnesota's bats, including the federally endangered northern long-eared bat (<u>Myotis septentrionalis</u>), can be found throughout Minnesota. During the active season (approximately April-November) bats roost underneath bark, in cavities, or in crevices of both live and dead trees. Tree removal can negatively impact bats by destroying roosting habitat, especially during the pup rearing season when females are forming maternity roosting colonies and the pups cannot yet fly. To minimize these impacts, the DNR recommends that tree removal be avoided from June 1 through August 15.

Ecologically Significant Area

No ecologically significant areas have been documented in the vicinity of the project.

State-Listed Endangered or Threatened Species

No state-listed endangered or threatened species have been documented in the vicinity of the project.

State-Listed Species of Special Concern

Taxonomic Group	Common Name	Scientific Name	Water Regime		Federal Status
Invertebrate Animal	Black Sandshell	Ligumia recta		Large Rivers, Medium Rivers and Streams	

Rogers Industrial MCE #: 2023-00673 Page 3 of 6

• The above table identifies state-listed species of special concern that have been documented in the vicinity of your project. If suitable habitat for any of these species occurs within your project footprint or activity impact area, the project may negatively impact those species. To avoid impacting state-listed species of special concern, the DNR recommends modifying the location of project activities to avoid suitable habitat or modifying the timing of project activities to avoid the presence of the species. Please visit the DNR Rare Species Guide for more information on the habitat use of these species and recommended measures to avoid or minimize impacts. For further assistance, please contact the appropriate DNR Regional Nongame Specialist or Regional Ecologist. Species-specific comments, if any, appear below.

Federally Listed Species

The Natural Heritage Information System does not contain any records for federally listed species within one mile of the proposed project. Please note, however, that not all federally listed species are tracked within the NHIS. To ensure compliance with federal law, please conduct a federal regulatory review using the U.S. Fish and Wildlife Service's online <u>Information for Planning and Consultation</u> (IPaC) tool.

The Natural Heritage Information System (NHIS), a collection of databases that contains information about Minnesota's rare natural features, is maintained by the Division of Ecological and Water Resources, Department of Natural Resources. The NHIS is continually updated as new information becomes available, and is the most complete source of data on Minnesota's rare or otherwise significant species, native plant communities, and other natural features. However, the NHIS is not an exhaustive inventory and thus does not represent all of the occurrences of rare features within the state. Therefore, ecologically significant features for which we have no records may exist within the project area. If additional information becomes available regarding rare features in the vicinity of the project, further review may be necessary.

For environmental review purposes, the results of this Natural Heritage Review are valid for one year; the results are only valid for the project location and the project description provided on the cover page. If project details change or construction has not occurred within one year, please resubmit the project for review.

The Natural Heritage Review does not constitute project approval by the Department of Natural Resources. Instead, it identifies issues regarding known occurrences of rare features and potential effects to these rare features. For information on the environmental review process or other natural resource concerns, you may contact your <u>DNR Regional Environmental Assessment Ecologist</u>.

Thank you for consulting us on this matter, and for your interest in preserving Minnesota's rare natural resources.

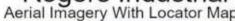
Sincerely,

Jim Drake Jim Drake Natural Heritage Review Specialist James.F.Drake@state.mn.us

Rogers Industrial MCE #: 2023-00673 Page 4 of 6

Links: USFWS Information for Planning and Consultation (IPaC) tool
Information for Planning and Consultation (IPaC) tool
DNR Regional Environmental Assessment Ecologist Contact Info
https://www.dnr.state.mn.us/eco/ereview/erp_regioncontacts.html

Rogers Industrial Aerial Imagery With Locator Map







Project Type: Development, Commercial/Institutional/Industrial

Project Size (acres): 46.56

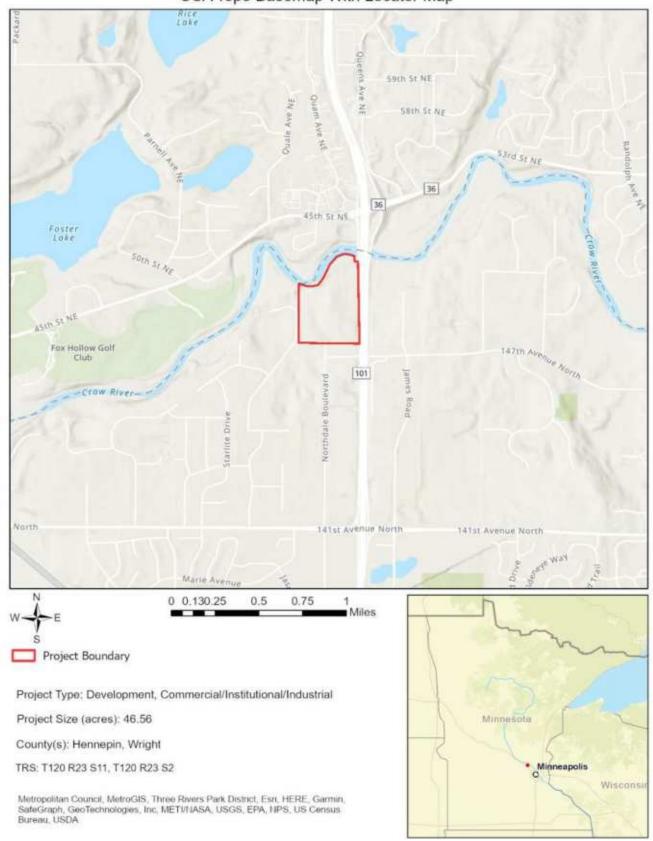
County(s): Hennepin, Wright

TRS: T120 R23 S11, T120 R23 S2

Metropolitan Council, MetroGIS, Three Rivers Park District, Esn. HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/HASA, USGS, EPA, HPS, US Census Bureau, USDA



Rogers Industrial USA Topo Basemap With Locator Map



Alea Stutz

From: MN_MNIT_Data Request SHPO < DataRequestSHPO@state.mn.us>

Sent: Tuesday, September 12, 2023 3:16 PM

To: Alea Stutz

Subject: RE: Cultural Resource Consultation - Rogers Industrial

Attachments: Archaeology.xls; History.xls

Hello Alea,

Please see attached.

Jim



SHPO Data Requests
Minnesota State Historic Preservation Office
50 Sherburne Avenue, Suite 203
Saint Paul, MN 55155
(651) 201-3299
datarequestshpo@state.mn.us

Notice: This email message simply reports the results of the cultural resources database search you requested. The database search is only for previously known archaeological sites and historic properties. **IN NO CASE DOES THIS DATABASE SEARCH OR EMAIL MESSAGE CONSTITUTE A PROJECT REVIEW UNDER STATE OR FEDERAL PRESERVATION LAWS** – please see our website at https://mn.gov/admin/shpo/protection/ for further information regarding our Environmental Review Process.

Because the majority of archaeological sites in the state and many historic/architectural properties have not been recorded,

important sites or properties may exist within the search area and may be affected by development projects within that area.

Additional research, including field surveys, may be necessary to adequately assess the area's potential to contain historic properties or archaeological sites.

Properties that are listed in the National Register of Historic Places (NRHP) or have been determined eligible for listing in the NRHP are indicated on the reports you have received, if any. The following codes may be on those reports:

NR – National Register listed. The properties may be individually listed or may be within the boundaries of a National Register

CEF – Considered Eligible Findings are made when a federal agency has recommended that a property is eligible for listing in the National Register and MN SHPO has accepted the recommendation for the purposes of the Environmental Review Process. These properties need to be further assessed before they are officially listed in the National Register.

SEF – Staff eligible Findings are those properties the MN SHPO staff considers eligible for listing in the National Register, in circumstances other than the Environmental Review Process.

DOE – Determination of Eligibility is made by the National Park Service and are those properties that are eligible for listing in the National Register, but have not been officially listed.

CNEF – Considered Not Eligible Findings are made during the course of the Environmental Review Process. For the purposes of the review a property is considered not eligible for listing in the National Register. These properties may need to be reassessed for eligibility under additional or alternate contexts.

Properties without NR, CEF, SEF, DOE, or CNEF designations in the reports may not have been evaluated and therefore no assumption to their eligibility can be made. Integrity and contexts change over time, therefore any eligibility determination made ten (10) or more years from the date of the current survey are considered out of date and the property will need to be reassessed. If you require a comprehensive assessment of a project's potential to impact archaeological sites or historic/architectural properties, you may need to hire a qualified archaeologist and/or historian. If you need assistance with a project review, please contact Kelly Gragg-Johnson, Environmental Review Specialist @ 651-201-3285 or by email at kelly.graggjohnson@state.mn.us.

The Minnesota SHPO Archaeology and Historic/Architectural Survey Manuals can be found at https://mn.gov/admin/shpo/identification-evaluation/.

Please <u>subscribe to receive SHPO notices</u> for the most current updates regarding office hours, accessing research files, or changes in submitting materials to the SHPO.

To access historic resource information please visit our webpage on <u>Using SHPO's Files</u>.



From: Alea Stutz <astutz@sambatek.com>
Sent: Tuesday, September 12, 2023 11:36 AM

To: MN_MNIT_Data Request SHPO <DataRequestSHPO@state.mn.us>

Subject: RE: Cultural Resource Consultation - Rogers Industrial

You don't often get email from astutz@sambatek.com. Learn why this is important

This message may be from an external email source.

Do not select links or open attachments unless verified. Report all suspicious emails to Minnesota IT Services Security Operations Center.

Hello,

I am following up on a data request submitted on 8/30. Please let us know any cultural resources within the project area.

Thank you!

Alea Stutz

Staff Engineer

Direct: 763.520.8460

From: Alea Stutz

Sent: Wednesday, August 30, 2023 1:43 PM

To: MN_MNIT_Data Request SHPO < DataRequestSHPO@state.mn.us >

Cc: Steve Troskey, AICP <stroskey@sambatek.com>

Subject: Cultural Resource Consultation - Rogers Industrial

Hello,

Sambatek is preparing an EAW for an industrial development in Rogers, MN. We are requesting a cultural resource review for the site to inform the impact analysis. The project location is as follows:

City of Rogers Hennepin County Section: 02

Township:120 Range: 23W

PID: 1112023210002

A PDF of the project area is attached.

Thank you!

Alea Stutz

Staff Engineer

Direct: 763.520.8460 Email: astutz@sambatek.com



Engineering | Surveying | Planning | Environmental

12800 Whitewater Drive, Suite 300 Minnetonka, MN 55343

TPBPLS FIRM #10194760









CONFIDENTIALITY NOTICE: This e-mail and the documents accompanying this e-mail contain confidential information. The information is solely for the use of the intended recipient(s) named above. If you are not the intended recipient, please notify us immediately by phone and delete it from your system.

COUNTY Hennepin

Rogers

EITYWP PROPNAME ADDRESS TOWN RANG SEC QUARTER USGS REPORTNUN NRH CE DOLINVENTNUM

Rogers

Bridge 27020 120 23 2 SESW Rogers

HE-HAT-058

Appendix C



Minnesota Wetland Conservation Act Notice of Decision

Local Government Unit: City of Rogers County: Hennepin	
Applicant Name: Schimdt Crow- Bob Cote	
Applicant Representative: Ken Arndt - MNR	
Project Name: Northdale Blvd Property LGU Project No. (if any):	
Date Complete Application Received by LGU: 10/24/2022	
Date of LGU Decision: 11/4/2022	
Date this Notice was Sent: 11/18/ 2022	
WCA Decision Type - check all that apply	
$oxed{oxed}$ Wetland Boundary/Type $oxed{\Box}$ Sequencing $oxed{\Box}$ Replacement Plan $oxed{\Box}$ Bank Plan (not	t credit purchase)
□ No-Loss (8420.0415) □ Exemption (8420.0420)	
Part: □ A □ B □ C □ D □ E □ F □ G □ H Subpart: □ 2 □ 3 □ 4 □ 5 □	36 □7 □8□9
Replacement Plan Impacts (replacement plan decisions only)	
Total WCA Wetland Impact Area:	
Wetland Replacement Type: Project Specific Credits:	
☐ Bank Credits:	
Bank Account Number(s):	
Technical Evaluation Panel Findings and Recommendations (attach if any)	
$oxed{oxed}$ Approve $oxed{\Box}$ Approve w/Conditions $oxed{\Box}$ Deny $oxed{\Box}$ No TEP Recommendation	
LGU Decision	
\square Approved with Conditions (specify below) ¹ \boxtimes Approved ¹	☐ Denied
List Conditions:	
Decision-Maker for this Application: ☐ Staff ⊠ Governing Board/Council ☐ Other: Con	sulting Agent
Decision is valid for: ⊠ 5 years (default) □ Other (specify):	
¹ <u>Wetland Replacement Plan</u> approval is not valid until BWSR confirms the withdrawal of any required wetland bar	nk credits. For project-
specific replacement a financial assurance per MN Rule 8420.0522, Subp. 9 and evidence that all required forms ha	
$the\ title\ of\ the\ property\ on\ which\ the\ replacement\ wetland\ is\ located\ must\ be\ provided\ to\ the\ LGU\ for\ the\ approval$	to be valid.
LGU Findings – Attach document(s) and/or insert narrative providing the basis for the LGU de	cision ¹ .
⊠ Attachment(s) (specify): Site location, updated Figure 5 showing post TEP results, Emai	l between
MNDNR and Ken Arndt of MNR.	
☐ Summary: A TEP review was held onsite on October 27, 2022. Lucas Mueller (LGU) Jed	Chesnut (BWSR),
and Ken Arndt (MNR) were in attendance. The TEP generally agreed with the Wetland Bound	dary and Type
delineated my MNR. No changes or comments were made to the original delineation.	
The TEP approves the wetland delineation report and boundaries submitted by MNR on 10/2	24/2022

 $^{^{\}rm 1}$ Findings must consider any TEP recommendations.

Attached	Project	Documents	
Attacheu	Project	. Documents	>

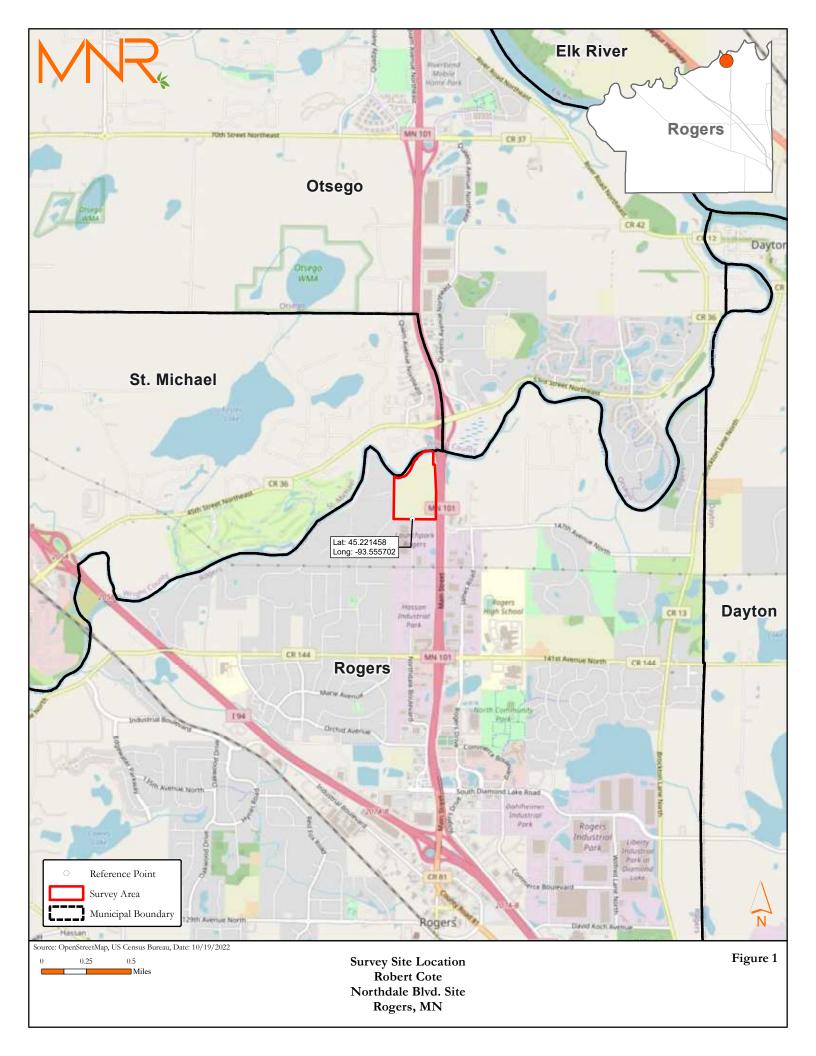
⊠ Site Location Map	☑ Wetland Boundaries Map Click here to enter text.
---------------------	--

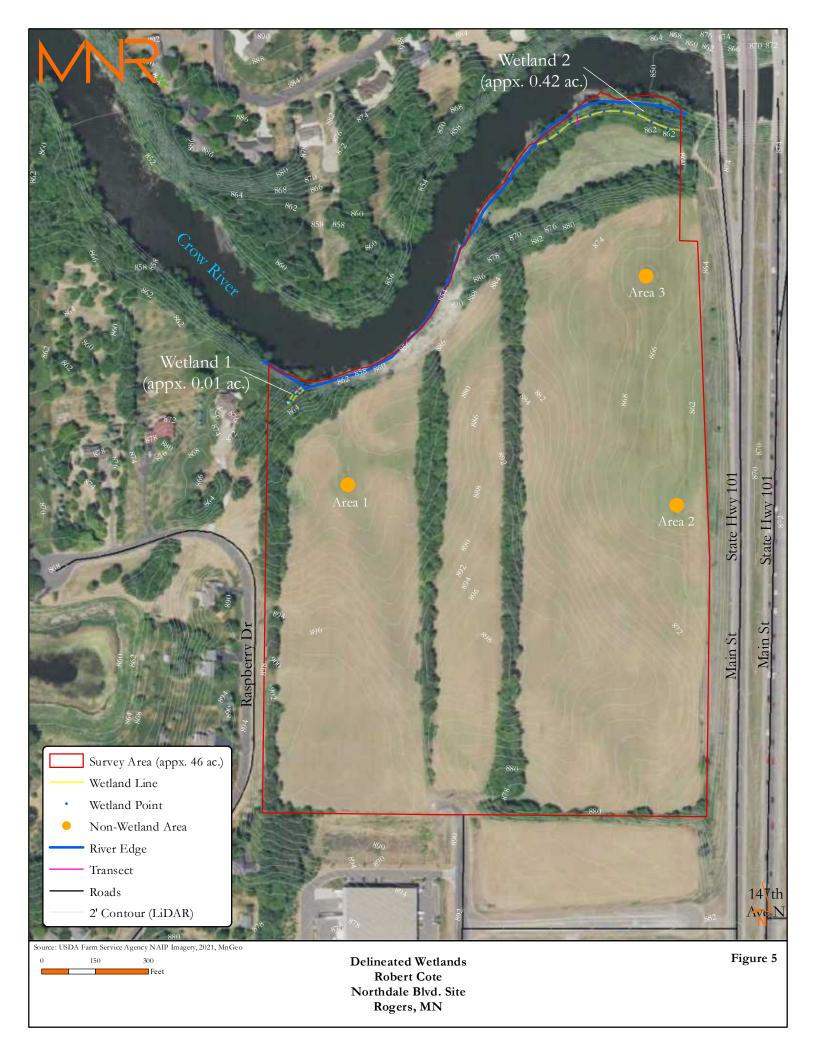
Appeals of LGU Decisions

If you wish to <u>appeal</u> this decision, you must provide a written request <u>within 30 calendar days of the date you received the notice</u>. All appeals must be submitted to the Board of Water and Soil Resources Executive Director along with a check payable to BWSR for \$500 *unless* the LGU has adopted a local appeal process as identified below. The check must be sent by mail and the written request to appeal can be submitted by mail or e-mail. The appeal should include a copy of this notice, name and contact information of appellant(s) and their representatives (if applicable), a statement clarifying the intent to appeal and supporting information as to why the decision is in error. Send to:

Appeals & Regulatory Compliance Coordinator	
Minnesota Board of Water & Soils Resources	
520 Lafayette Road North	
St. Paul, MN 55155	
travis.germundson@state.mn.us	
Does the LGU have a <u>local appeal process</u> applicable to this dec	cision?
\square Yes ¹ \boxtimes No	
¹ If yes, all appeals must first be considered via the local appeals proce	SS.
Local Appeals Submittal Requirements (LGU must describe how to a	ppeal, submittal requirements, fees, etc. as applicable
Notice Distribution (include name) Required on all notices:	
□ SWCD TEP Member: Stacey Lijewski	⊠ BWSR TEP Member: Jed Chesnut
☐ LGU TEP Member (if different than LGU contact):	
□ DNR Representative: Wes Saunders-Pearce	
☐ Watershed District or Watershed Mgmt. Org.: Judie Anders	on
☑ Applicant: Bob Cote ☒ Agent/Consultant: Ken Arndt	
Optional or As Applicable:	
☐ Corps of Engineers:	
☐ BWSR Wetland Mitigation Coordinator (required for bank plan ap	unlications only):
☐ Members of the Public (notice only): Eric Trelsad, Jeremey D	
Signature:	Date:
Tuest Pulle	November 18, 2022
This notice and accompanying application materials may be sent ele	ectronically or by mail. The IGII may ont to send a

This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.





Appendix D



REPORT PHASE I ENVIRONMENTAL ASSESSMENT

48 ACRE DEVILOPMENT PROPERTY LOCATED ALONG THE WEST SIDE OF MN 10WY 101.
SOUTH OF THE CHOW REVER ROGINS, MENNESDEA

APRIL 13, 2001.

PREVARED 190R.

MR. BOB COTE SUBMIDIT-CROWITEC

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APPENDIX DI TEN A PHOROGRAPHS

APPENDIX F TOPOGRAPHED MARS

PAPPENDANIC 170 AL DESCRIPTION

1.0 KARCUTTVE SIMMARY

Obsoli Environmental Inc. (Omni) was removed by Mr. Bels Co.s., Schmidt-Crow. ILC (CC.(FNI)). Fillia. Militaryou, to conduct a Phase I Journal of the Assessment of the property known as (Logal Description to obtached in Appeadix C), for 18 some development, property locom(about The TO), south of the Crow-River (subject property) on Royals, Minnesotti. A location map of the property to presented in Figure 1. The purpose of the 18489 I Sociommental Similar Assessment was to evaluate whether minimum a linearized socioistics on or man the subject property may have usualled in significant communication (y-linearized socioistics) of was as also mown as a *Toloquized Environmental Condition* (RHC).

The Piese I Brytonmental fire Assessment was performed in accommise with Aying <u>Survivor</u> F 1527-97 and the atteched scope of work (Appendix A), and was authorized by the CHINT on Mark 25, 2001.

The subject property is approximately 48 screen also and its Jimbasicon are approximately 1,000 m x 3,700 ft. The subject property is correctly a vegetarbotal 5.01 with no building out. According to Maillautz, the subject property assisted then stock-build and business always used primarily for agonalitical land or been vacuum.

The subject property is bounded on the east by Minnepola Property (0) and beyond is agriculture and commercial land. The Crow Resembounds the subject property to the moth and toyond is besident in and continued at lead. Residential land bounds the western using of the subject property. Commercial property besides the subject property to the south

No exidence of contonication by lossed of substances, basindate wastes, throughout, storage lands (USTs), and choose monotoness as observed on the subject property of the manual file site inspection. No unusual orders, contracting angles of waste display, distressed vegetating any order decreasions, and off patterns, one drives good to wast observed on the subject property decree distributions. No pits, pands, lagrancy or wallands were observed on the subject property decreased bases of the sale inspection. No wells were a servery conflict subject property.

Bossel on the available information, no Recognized Environmental Combined (REC) presentation to IX assessment of with current or historic activities on the subjectly openly.

A visital inspection of observable areas of currentlying properties of the only get property did not identify any property due to potential conformation could be a supplying expected by prette on KHC of the anti-act property.

A review of Fodors and Stan continuously doubuses identified no proporting of promise environments contain to the sourceding area that could be respectably expected to a range of REC such subject property.

2.0 INTRODUCTION

Churi was retained by Mr. Bob (O)e, Schmidt Crow. 3.1.0 (C) JPN (), Higgs. Minneson, to solded a Phase I Environmental Site Assessment of the property known as the 48 Acre. Sevelophent Property located stong the West sale of MN Dwy 101, cours of the Crow River (subject property) to Royers. Minnesons. This ground was conducted in scooldance with the stonger of work (Appendix A) and was sufficiently by the CLITCNI on Match 13, 2001. The property purpose, scope, and hourshors and presented in the following services.

2.1 Physics

The purpose of the Phase I Environmental Sec Assessment was to set use one equipment. Concerns on 1999 a line may be executed with the subject property. Such any equipment occurrent of issues a resubsequently referred to in this report as a Responsed Environmental Condition i in second on with Gr. ASTM Standard F. SSARAT A Resognized Environmental Condition is defined as

The presence or likely presence (I any Lazardone substances or permissing products on a property under conditions if at Lebi ato an existing release, a past of type, or a nestonal district of a release or any loopardons substances or permission products earlier correctly or into the greatest of permission products even in a to property or into the greatest or permission products even in a to conditions in completions with laws. The room is not into that to include as mining conditions the purpose with laws. The room is not into the include as mining conditions that particularly do not present a mineral risk of Lagran to public health on the environment (ast that controlly would not be the singer or an original region if brought in the atomical of appropriate governmental agencies.

2.2 Scope of Worta

The Blost I Environmental Suc Assessment was performed in accordance with the attached scope of work and authorized by the CLEINS on March 28, 200. . A copy of this proposal is prescued in Ampendix A

2.2 Limiting Conditions

The station to complete the scape of works was limbed by the ready evaluation into an installing of managinal models such as first insurance maps. (Sauthorns), Distories topographic maps, and big currentation. The shift is complete the scape of work was also limited by the subject property be as even, in show during the site walk through

2.4 Dibirations of the Report

The Phase I howe-hundred Sur Assessment Report was prepared in accompany with the Scope of World described in Society 2.2 and presented in Appendix A. The world society is limited to the pervices against to with the CLIENT, and no other services beyond those explicitly stated should be into two (a into bot).

The Place I Environmental Size Assessment was a mind to visual observations of conditions on the Cry of the site magnetical residue of readily available and policies and statements made and information provided by the CLIENT, his agents, considerparties, and regularity approaches. Specifically not included in the scope of the Phase I Environmental Sale Assessment was an expension of geologic mazents are feel general coherent material sampling of an Lyapund ways, with assesses, or radion

The Place I Edwindmental Site Assessment is a limited and non-relacative survey from a introduct to evaluate whether rend by available information redimes that the historic or convey use at the subject property resulted in configuration by learnings substantiage of wagges. As a result, withy it is comparisonable surpling and subjects program or implementation of services beyond the configuration scope of ward, certain positive conditions, incoding, but not limited makes summand a factor, usay not be reverted.

- Naturally according to all substances or elements fould in the substantine spits, rocks, or water.
- Toxic substances congroudly found its current naturals projected into as successible products, but tagging trials, and consumates.
- Realogical or anientimus agents and particles no
- In Confusion, plante (liquid or governs), to oscillo suctate from a remote or orknown source.
- Ontoward, undepented, and not readily visible systemicalized which may have twen caused by "modalg must conjugate and/or addidental appliage.

Due and customory explains been expreised in the conduct of my. Please I Environments, \$1.5 Assessment for into margin provided by others has not been independently writted. A hermore, so labeling is assemble to make the use of inaccurate/incomplete information or maistepassment of multiplications multiplies multiplications of the property at the request of the LO TEN L, and it should be emphasized that because configure at the subject property can change ever time, the usu of this report by unanalyzated third parties shall be as derir own tisk.

3.0 PHASE LENYIRONMENTAL ACCE ASSESSMENT

3.1 Description of Subject Property

Information concerning the subject property was obtained from the sire respection continued by Mr. Matt Cikas of Lamb on April 5, 2001 and documents referenced to Societa 4.0 of this report. Interviews concerning the subject property were concurred with Mr. Jun 1992.

3.1.1 Physical Lucurian and Description of Subject Property.

The subject property is 1.48 core development property located along the west size at $500\,\mathrm{Hey}$ 231, 80 dL of the Grow River in Rogers. Minnesons I A location map of the subject properties dispersions are approximately 1.368 fr x 2,230 ft. 4500 fting to Mr. 1.12, the subject property has a sample to Joydeped and has been painty printedly as against little land on been vacuum.

The subject projectly is bounded on the east by Manneson Highway 101 and beyond is agreemental and conductival hald. The Grow River bounds the amplified property to the north and beyond is residential and conductival land conductival land. Residential and bounds the western edge of the subject property. Considerable property becomes the subject property to the south.

3.1.2 Environmental Serting

3 i. 2.1 Topography

The straight, property is located in Sections 2 at 11, 1 award up 15) (continuously a located in Sections 2 at 11, 1 award up 15) (continuously, Munusula). Businessmental characteristics methology appearably, soils, geology, and tyruogeology were evaluated based on sire observations, published Lagrange, and maps.

According to the 1, most brane; Geological Survey i Riegers. Minnesotal 7.5 Minnesotal (1.5 Minnesotal 1.5 Minnesotal 1.5 Minnesotal (1.5 Minnesotal 1.5 Minnesotal 1.5 Minnesotal (1.5 Minnesotal 1.5 Mi

3122 Suita

Based on information from the U.S. Department of Agricular via (1, 91)A) Self-Conservation Solvaise (SCS) localing the National Congenitive Soil Solvay (NCSS) the Confident sail composition at the general area of the target property is composed (4 Hobbard Localy said). Hubbard locally said is well drained to excessively croined. These soils (Alve very likely and high hydraulic conductivity and low water bearing consciry. Depth to for water address generally more than 5 foot except in the northerst area on not to take property may the river.

5.1.7.5 Rogicual Disology

Brand on for inclosion Alias of Hamagin Coursy. Minneson prolished by the Minnesota Recognition (1989), the sociability prology beneath the subject property and the procompling areas consists of said. Itselfy sold, and gravel; overlain by basis less than 4 for mighthorisms the Cow Boson, is flood plain alluvious which is composed of chiefly trongy sami, said, and gravely soud, no troubled with and overlain by this bods of finet selfment and organic matter. Based on Hennonia Courty Wall Index (CWI) logs for T120N, R23W, Section 11, depth to the appearance bedrook formation. On St. Lawrence Humation, is estimated at 60 and 150 fee, below ground serface (1951) and its illustrates is estimated at 45-100 feet. The next budrook cair, the Troubou & Galesville, is approximately to face their and evention the Tan Clairs frequenties.

5.3 J.4 Hydrogorlegy

Brasel on the coview of morely well logs, and the needed Crow River, groundwater three direction is thought to be used accordingly direction toward the Grow River. Static when tevets are thought to be become 2 tool and 20 feet below surface. When levels decreasing with proximity to the owner Theodora: good advants autient absolution and flow direction beneath the subject property funds the ceremined without observe alteration and flow direction beneath the subject property fanter than the refer ned without observe alteration and the unfollying Franconian Insulant Greatly applied property is not first year and also year those property. The northwater content of the subject property is not first year and also year those group based on its branchion provided in the EDR report.

3.1.2.5 Weitande

Public observations in plant species, it appears a wetland is present in the numbers are subject of the subject property. It was notifin this score of workers delineate the area of the worked

5.2 Site Inspection of Subject Property.

The subject property was displaced on the allement of March 28, 2001 between the house of 5:00 \times M=0 pin. We also consider at the time of the insolution was also dy with a subgestature of 40 degrees. Following the Lipschitz big presented in Appendix 3.

3.2.1 Current Uses of Subject Property.

The subject progeny is currently used as a agricultural field and is approximately 48 sores in size.

3.2.2 Pass Uses of Subject Property

Dated on the site interview, observations (roundle site walk-duough and a review of history actial photographs, the past use of the subject is builded). No editor prior uses of the subject property work discernable mased on the subjection. Historia use information is presented in Section 5.4.

3.2.3 Exterior and Interior Site Observations of Subject Property.

i / i 1 Hazardous Substances and Petroleum Products.

No hazaroms substantes to beautional products were observed on the subject property stating the site raspection. According to Mr. Lutz, no hazardous substances of petroleum products substances of petroleum products substances on the subject or specify.

3.2.3.2 Hazardens Wares

According to Mr. Luix, no hazarrows mastes are positives; in a mist if of operations at the size property. The site was not listed to the government regulatory numbers paper, chick hazardous wastes.

3 × 5 (J.Margi)und Abovoground Surege Tanks

Verd pipes indicating this lagground storage balks (USTs), worthing observed on the subject property curring the sale pagestion. No above pound storage tanks (ASTs) were observed on the subject property curring the sits its section.

3.2.3.4 Drems and Continue to

No drums or correiners were conserved on the subject projectly documental site dispersions.

3.2.3.5 PCD Containing Equipment

No nearsthanness that could petermially contain petychtorinered hiphenyls (FCRs) were $\mathfrak{gl}_{2(2,2,3)}$ on the sub-out property during the site inspection.

5.7.3.9 Solid Waster

According to $M_{\rm P}$. Latz, we solid westes, hazardous or otherwise, are produced at or hantest from the $300_{\rm P}$ (or properly). No dumps were observed on the subject properly during the size respectives.

3.2.3.7 Drains and Source

No drains or samps were this exact our the subject property during the site inspection.

3.2.3.8 Wishemmer/Promit Water

According to Mr. Thus, no wramwith is produced at the subject property as a result of a cooperations.

3 2.3 9 Wells

A 2000 limp to Mr. Luna, no well, are foculed on the gripping property. No wells were presented at the subject property during the sire inspection.

8/2/3/00 Pite, Powle, and Exgons-

Phis, pands and logor is were upt observed on the subject progesty at the time of the lightinspection

3.2.3.11 Dry cleaning Opermions

Day-discoing operations do not appear to leave but a single-median (a) the being conducted on the subject property

Silk and a Building Generalors

There are no energency generators located on the subject presents.

5.2.3.00 Acc

There were no discount an emissions coming from the subject properly during the sacting extension.

Refor was not test a Big, he wever, there are so buildings on the subject property for more management are

2.2.3.14 Other Physical Evidence of Lampaigargue

Officer glavestical evidence of correspondences not observed during the sine inapproximation

3.3.3.35 Asbestos Containma Materials

Advanding to Mr. Lutz, the subject property has never been developed. No aspesting of training makerials were observed during the site inspection.

3.3 Surrounding Property Site Inspection

A prison inspection of scality visible areas of surrounding property was performed. The following description of the current uses and property according concerns is asset of observations on the data of the site inspection and interviews with site contacts.

3.3.1 Current I set of Sucrounding Property

Surrounding property of the rate of the site inspection are as follows:

- Notific: The Creek River bounds the subject property to the continued beyond is subpossed and perident in prevents.
- Hast:— If is lowery 10, the ends of the subject people by on the case, and beyond is agreen to said and occurrent in property.
- South O'Countrial land bounds the autheory opens you the sough.
- West Restrictful baid bounds the subject property on the west

3.3.2 Surrounding Property of Potential Environmental Concern

The environmental statistics are the excelled no sites of potential environmental continuous line. ASTM (search madius for each declared. No succeeding properties of potential differential concern were observed that ig the site inspections.

3.4 Historic Conditions of Subject Property and Supposeding Property

The bistory of baid use on aid near the subject property was evaluated in Code, to Sciencify those cases and nearths was that are likely to have led to a Recognized Environmental Condition in connection with the subject property.

3.4.1 Current and Prior Ownership and Tenants.

According to Mr. 100 1005, or obtainly owns for subject properly, and has owned the property since 1977 when he produced the property boar the Scharber family. Through a responding training with the Honorphi County Resolvers office, the Scharber family perchased the property for deed in 1961. The subject property is currently an agricultural held and as shed is categories.

3.4.2 Chain-d'-Title

A Limited Chains difficultivities was not completed at the Hennephe County Recorder's Office. Sowered, a releptions into vit was conducted with the Hennephin County Recorder's Office where a was known that the Salarburs purchased the subject property for (no.) in 1961. It was tearned corough the into view with Jun Leaz that he purchased the subject property from the Salarburs family in 1979.

3.4.3 Enterviews

Mr. Just Lotz was interviewed reporting past and prosond ownership and usage of the subject projects. The results of this interview are invastance in Scottons 5.3 and 5.4.1

3.4.4 Aerial Photographs

About proposable were reviewed to provide historical browground or the antitop or opposit and its vicinity. These actual photographs were exactable from Environmental them Resources. Thus for the years noted below.

1987 Forth Jope

Approximate scale: 17 = 800

The subject property and someomiline properties appear as furnitural. WN Highway $9/(\sin\theta)$ 147* Street are absorbed in their procedure by social and the red front on edge (so I in their precent downwards).

<u> 1945 Р</u>форедарЫ

And them steps while (P - 250).

The subject property and surrounding areas appear at hiter to the 1977 mate_{stratio}.

1956 PlanteLands

Approximate scale: P = 328

The Arty art property and surrounding area, appear similar to the 1965 photocration

-966 Phygograph

Approximate scale: 1' = 300.

The subject property and some ording successpecial similar to the 1986 photograph.

. 278 Photog <u>ngh</u>

Approximate gradu 11 - 315.

The commercial and residential buildings to the logical appropriate property frace appears the earth of the property frace appears the article and 1978. The self-out property appears the article had the 1966 photograph.

984 Photograph

Approximate graph $1^{n} = 5.15$.

The subject property and surrounding stress about ϵ denice to the 1978 photograph.

1997 Photograph :

A transfigate scale: $1.1 - 525^{\circ}$

The residential property bounding the subject property to be, was appoints between 1984 and 1999. The sub-secuproperty appears similar to the 1984 is into gaption.

3.4.5 Soutono Rice Insurance Rate Maps

Sanhorn Fire Insurance Sare Maps such et available for the subject property.

3.4.6 Historic Engagenphic Visps.

Historic topographic maps were neviewed to provide learnered topographic map was couperty and as vacualty. Four topographic maps were available in the (quographic map was obtained from the United States Geological Survey for the year point notice).

<u>1909 ' Rocklig</u>e, Minn." 13 Minute Quadrang et

<u> Skale 1 92,900</u>

The subject producty appears vacant. MN Highway: 01 does not yet become the $\sim p_{\rm PS}$, producty to 0.0 for a still 147° . Avenue North is thirty present day location.

1958 Resident Manual 13 Manual Condender

Scale: :52.590

MN Highway for a come or a presidency consider. The subject property appear similal makes 1900 pagagraph a mail

1981 *Rogers: Mind. 17.5 Minute Quadrange

North: 1.74,000

The subject property and the scorounding succinppears of nifetime had 1958 $\mathrm{cop}_{1,2}\mathrm{apt}_{-0.205p}$.

1995 *Rocare, Minn. 17.5 Micros Onadrangio

Scale: 1.24,000

The subject troopers and the surrounding erac appears similar to the 1900 topographic map.

3.4.7 Cler Directories

Issued on the interview wird Mr. Lorz and on the review of historical rayoglaphic maps and serial photographs, is does not appear that the subject property has rive, both (eveloped, Therefore, a city directory search was not performed for the EXA.

3.5 Regularany Agency Review

3-5-1 Environmental Databases Review

During the last 15 years, Potentiand State government agencies layer toochaped logislation tolering moreous account construct. As a result of this legislation have subjustable, organization which govern horself its and/or textic was and materials, and the manufacturing, governized, use, storage, missen, subject disposal of such materials have been promotered. As a consequence of tress laws and regulations, commonly agencies collect and discentificate information for the evaluating potential oppositions.

To assess the nationfiel (to seel and groundwater contamination at the subject property of an exactly property, the Hedderd (Note), and level decision like search provided by Friedmann (1000). Resources, Inc. (FDR) of Known or, potential basenious waste sites of landfills and the transcentently under investigation for a renormalized validations were reviewed. A copy of the HDR search is included in Appendix Co. The following datase season their respective search radii were included in the FDR search:

Teder⊈ ASTM Records

- National Priority List (NPL) = Virially
- Resource Conservation and Renowing indicate tion System (RCBES) Texament Stronge, and Discread (TSD) - Umile
- Comprehensive Environmental Kaspanisa, Comprehensive and Library Editoration Systems (CBRCLIS) | 0.3 mile
- RCRIS Small Quantity Cerembor (Signification) on the
- RCRFS Large Quantity Generator (10)(G) = 0 minutes.
- Emergency Response Modification System (ENNS) Target Area (ty-

Tydetad Non ASTM Records:

- Delix.ed NOL Target Property.
- No Turther Remedial Accord Flances (OSROLA-NERAP) Togst (OSROLA-NERAP)
- Corrective Action Resort (CORRAC, S) Unit c
- RCRA Administrative Acrien Tracking System (RAATS) In per Property.
- Dazardous Material Information Reporting System (HMTRS) Target Probably
- PCB Activity Database System (PA-18) Pager Projecty.
- Tacility Index System (F9NDS) Target Property.
- Towic Chemical Referse Inventory System (IPRIS) Larger Property.
- NPL (Peceral Superford) Liens To yer Property
- Towie Substances Control Act (380 Å) Torget Property.
- Moretial Licensing Tracking System (MTTS) To get Property.
- Records of Decision (Bullip Émile)
- Superfined (CERCLA) Danser 1 Discreta (CQN SENT) 1, more

atate of Minneson AS, M Kashida

- Susta Hezardous Waste Sites (S1FWS) rokun Superfront Permanent (19) of Priorities (P1.9).
 Louite
- Since Solid Wester Pacificies/Lundfull Sites (SWeil Sites and Farm treat Solid Waster Dispose).
 Executive = 0.5 miles
- Look Stock (EUSt) 0.5 mile.
- It offerground Storage Tests File (TST) = 6.28 mile.

Sinti di Mangeore, Nan-ASTM Tostotés

- Altowngoodlid Storago Tank (AST) | 0.125 mile.
- Mr. naspia List of Sites (MN LS) Target Property
- Multi-sola Enforcement Line Turvet Property.
- Minnesota Voluntery Investigation and Glenning Program (VGC) Torgo, Property
- Minnesota Spüls Torzet Property.
- Milimoota Post i mile.
- Millagota Deleted SSIWS Limiter
- Min π sota Landi El Cleanup = 0.5 mile.
- Modus sota LPMS Pondits Turget Emmerty.

Office Soot any Kosson A

Cool Cos - 1 male

Descriptions of these determines one presents Lin Appendix C. The 4% seed development property, on the west side of VN Hwy or a kingors, VIN was the subject own, or the EDR search. Recover the subject property has no specific shoot address in a mapping type and was adjusted manually based on the location observed during the site inspection. A summary of the information found in the EDR is observed below.

the latitude property was not edentified on any of the RDR secoch databases.

Notice Utilize were identified within the ASTM search radius of the subject property.

The sites listed under "Opphy's Summary" ware not mapped due to been or insidequate narrows information. A new ewood these sugal process that other they are not lecoted within the ASTM search radius of the surject property and/or they do not allowed to pose an REC to the subject property.

3.5.2 Regulatory Agency Contact

No organization agencies were conducted as part of this Phase I 78%.

3.6 Findings met Cooclusions

In conformance with the score old limitations of ASTM Suintard F1527-07 and the Scope of Work presented to Section 2.3 or Physical Environmental Site Assessment was conducted at the Subject property formed within the Southwest quadrant of Highway 101. Named Crow River introduction in Rogers, Minnesons to Systemate the posterial for a Recognized Environmental Condition to exist an the subject property from consite or off site activities. Conditions are presented below

3.6.1 On-Site Recognized Environmental Conditions

No Recognized Havi programs! Conditions (RBC) were found in the sessionable with contemport bastoms and within the subject of programs based on the available inforcestion. No other programs Recognized Environmental Conditions were identified on the subject projects.

3.6.2 Off Site Recognized Kityleomieulai Conditions

A Visual institution of other observable of as ϕ (to surrounding properties and nor $\phi_{an,C_{Y},an}$) property of potential environmental concern that ϕ (11 be two untilly expected to recent a Recognized Euclidean arthrophysics).

A totaless of hyderal and 5.2.e environmental constance aboutfied no properties of polymial anvironmental constant for the surrounding area from eq. (19.1. assumbly expected in the surrounding area from property.)

Recognized in reliconnectal Consern at the subject property.

We generally quasi-major emissions regarding this report please contact $\eta_{0.00}$ (507) 252–3045.

Respectfully storm from

OMNI ENVIRONMENTAL, INC.

Kylo B. Raverty. Stati Osologiai

Mathew N. Cikas Principal Geologist

40 BETTRENCES

ASUM, 1997. Apriliant Society for Testing and Mark tolls (ASTM). Standard F. 527-97. "Standard Proclide for Provincemental 5 to Assessment—"Insect Environmental Site Assessment Process."

Edizfronmental Boto Resonants, July, 1. In EDR-Radius May with CereChebry Unity for 1998,

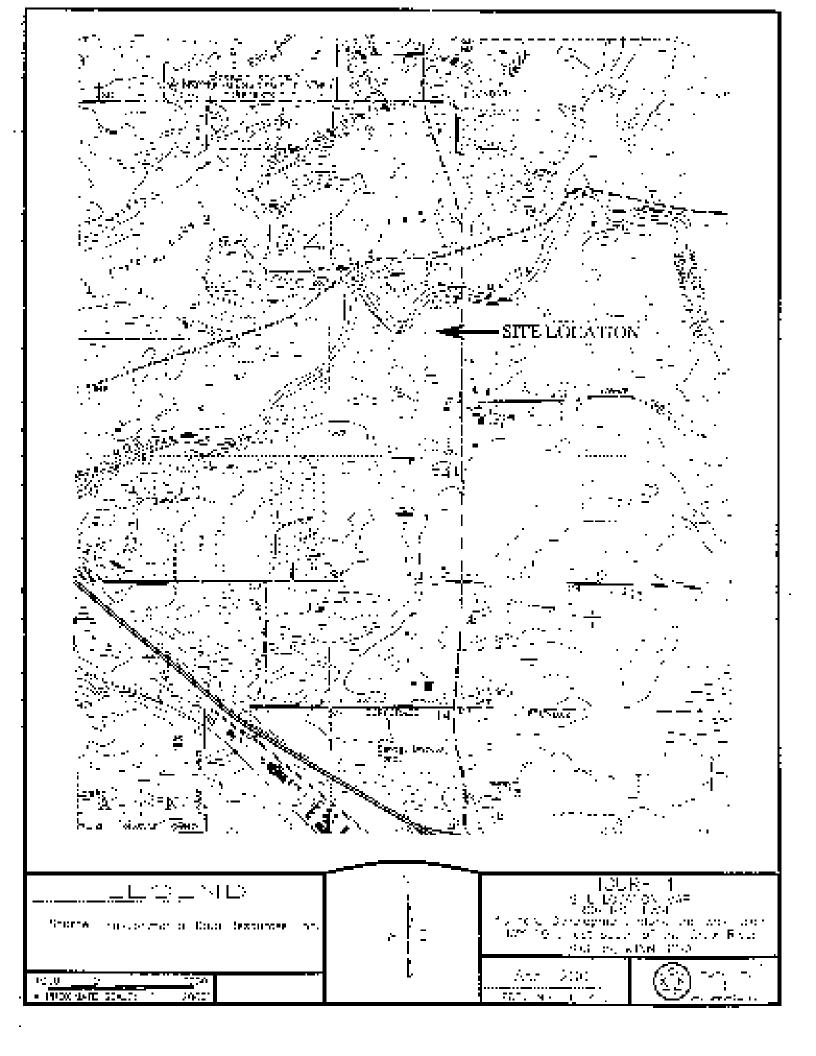
Gisast Matt, Opmi Environmental, Inc., Penemical training inspection on Match 28, 2001

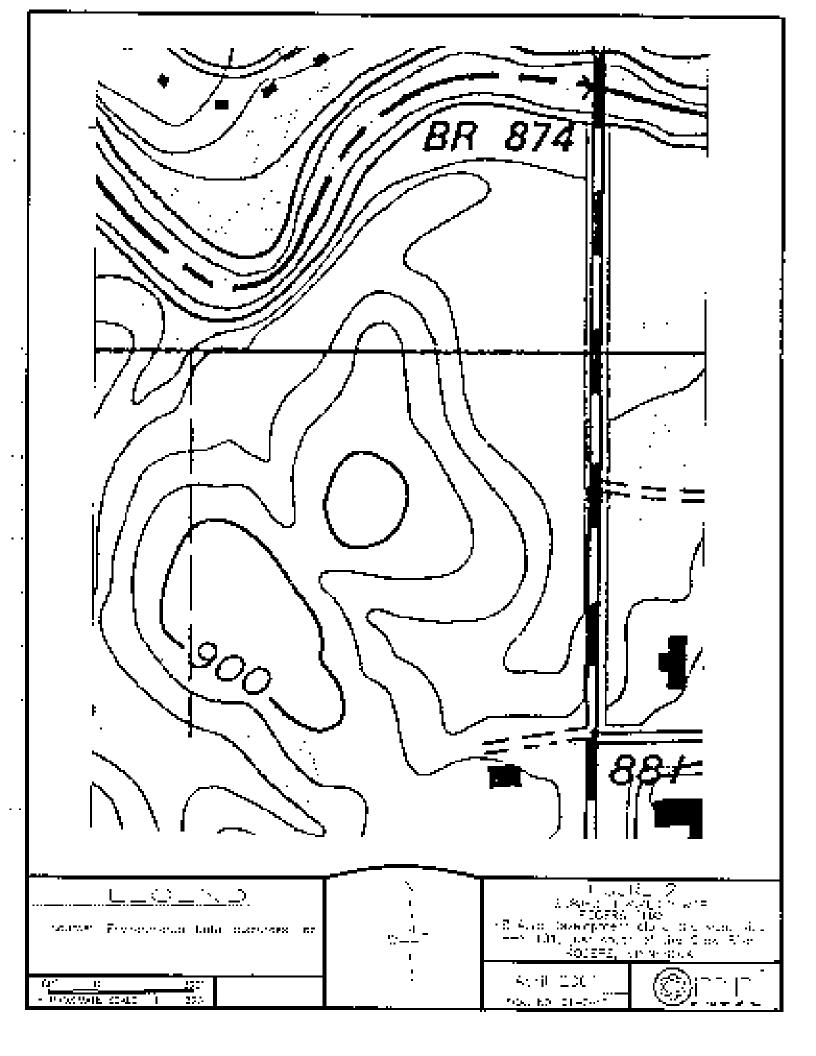
Cote, Bob. Juture Property Owner, Nation dis Cross 1, U.C. Parsonal Communication with Nisate Fiorin of Crani Envisormental, Inc., Wisen 28, 2001.

His movie County, Mannesota Geologic Arlas C.4, Minnovom Geologicas, Stesayy University of Жішызоta, 1989.

In 2006 to 0.0 may However one Office, phone conversation, 40.0% .

Remedia County World Alax, wellings for T120N, R25W, Section 11.







Mr. Mair Coge CB-Dichard Edis TASD Francis Awallie, Scool ₍Age 170) Minneapolis, Michesona, 56406

Subject:

Phase I Environmental Site Assessment 48 Acre Development Property Locatol along the Wost sick of MES Hwy 507, southful for Calow River

Black st. With resem-

1.0 INTRODUCTION

Once BeVironousiti, Inc. (Onsit) is pleased to solve the following people at the conduct a Phase .

However, the Assessment (FSA) at the property footied stong Hary 503 on the wast side adjacent to and one south of the oney mover in Rogers. Minnesons. This proposal is based on the medical proposal to be you in recent phone conversations. If it is in another analog that a legal description aromorphisms of the property will be encouraged again commonwhich of the ESA.

2.0 ACOPK OF WORK

The purpose of the Place I BSA will be to obtain and review information regarding past an present land use practices and also operations to assess the ast, amage, generation, manefacture, and dispusal of percolaum and agricultural products and hazardors trace also and wastes to the above colorabled property, and evaluate the potential presence of sei, and/or ground water constraints from on-site and off-ships surpose. This assessment will be accompaished by, and is limited to, a recommissance of the subject property and surrounding properties, and a review of content our readily available pertaient documentation regarding past and content land use which may have been associated with observe of completely problems and/or loss adoption mageinals/wastes.

The proposed scope of services by the ESA is included to occan the occasion information as builded in the ASTM Standard Procede for a Phase (IRSA (El 1527-97) and will imply the buildward placements.

- Review of perimeter, reportly avoids a documents and maps regarding boost goodegic and avotrophologic conditions;
- If available, review and interpretation of selected historical aeria; physical of the
 asabject property and vicinity for solution within a loss fire past 50 years, which are
 available shrough EDR, inc. and/or other readity ovailable sources.

Boh Cris 36wich 27 (2001 18.4472

- [7] Swindende, review and interpretation of lustor hall topographic maps, historical land cash maps, (e.g., Sufficient Pine Insurance) and early directories for the subject subplicity such violating for intermediately map intermediately is landered for at least the prof. Att years that could have invertee the improved on permanental prof. generation, use, storage, and/or disposed of permanental prof. permanental permanental prof. permanental p
- Review of eventable discipances regarding past abover current property development proposition by the correct property regarding past abover current property development approvided by the correct property regarding. Protectedly useful decuments any include office approved the property of the property of the property of the property.
- Profession we of a recomaissance survey of the subject profess at the subject property and a make visital observations of extrang conditions and attivities at the subject property and, in the property vicinity. ¿Dant will, also extrame the absolution, leatings, usiling and flooring of the buildings for suspected aspects approved another surfaces for suspected and based paint of the subject surfaces for suspected and based paint of the subject sufficient without written achieved to proceed. Appropriets physicaphs of the subject property will be taken.
 - ntouvaled of the owner, neconstruction makes, of other personnel identified as being
 throwsedgeable to past tensors and environmental practices such earliest projectly involving periodicum products and hazardous materials/westes;
- Reverse of county, state, and U₁S. Environmental, Protection Agency (EPA) lists of knowledge of protection in was disting a lamifold, and situs of modify under investigation to convenimental modations focused in the \$15 Upporty within the specified in ASUM Standard E19927-97, including this woll limited to:
 - III.S. Torvingomental Protection Agrics; (1.15. RPA). Noticed Placetics Lis. (NTL).
 (Superfund Steek).
 - JUS, EPA, Gümpteisensive Invironmental Respicee, Compensation, and Links hy-Act List (CPRC) 38)
 - State Priorities List (SPL):
 - U.S. EPA List of Faulities that Touri, Store, and/or Dispose of Hammions Write. (RCRIS):
 - Lasking Underground Statuge Tank List (LUST); . . .
 - The of original Solid Wagog Landfills, Indianators, or Jeanster stations (SWITE).
 - List of Aires (vin) Representat Underground Storage Tanks (HXI);
 - U.S. RPA Sites with Previous Hazardau (Materials Spills (ERNS)
 - · U.S. EPA Siles that Generals Largo and Amell Quantities of Hazalticus Woste. - (RURIS).
 - Tagliffes to applicable county and locar agencies for information regarding on the control of personal regarding on the control of the personal regard.

\$24, Bob Core March 27, 2907 ; Page 3

Prematation of a report summarizing the stope of assessment, infogration character, and executesions regard no recognized environmental conditions at the subject property.

Unless specified by reconstraint and additional bodget is authorized, any additional environmental asymptom and stratyses including assessment of worlands, seismo burkhis, had paint, load in drinking water, and arruptional insulation but included in the 500pc. Ashes we and radion surveys are later for motories in our proposed successfuncts. Our conclusions assessed to percental the event note ashes as, lead-basel-point, colors, and PCB manufacturers will be a secretal in the report.

Facoling the results of the Pense I EXA, we will provide recommendations for additional accessorial and/or some surface water, originally waste sampling and applyars if requested. An this time, it is not feasible to provide an accuracy asymptom at the scope and cost for additional investigation.

If recessary.

Matthew Ciles, a Station law insurance of the project. Mr. Gikas has 12 years experience, including performing and managing all reports of ESAs. Mr. Johl Book. a Project. Engineer, will assist with conducting the Physic I HSA. I. Mr. Seck has 3 years experience performing and managing all reports of ESAs. Mr. Johl Book. a Project. Engineer, will assist with conducting the Physic I HSA. I. Mr. Seck has 3 years experience to perform the and managing ESAs.

4.0 UMNES OF ALIMICATIONS.

"Comb Buyithmondal, Inclinian environmental consulting and outlinearing firm specializing to anhancing contraction or excessions, so I and ground water generation, underground surgage tank investigations, properly transfer assessments, regulatory compliance apoint, were numiting tion and industrial waterwater treatment processes. Obtain two princes the importance of providing high duality products to our climits and fibrally and extractive market. The principal of the company has even 10 years or proper than general and supervisory expensions in the approximation of the consulting husiness, including office and experimental management responsibilities.

'Ômri is especial V well-againfied to ass so no this eifort for the following reasons."

- Extensive Phase I Devironmental Site Assessment, namedal design and commission improvement/monitoring experience;
- Expellent working relationship with the Minneson Pollation Control Agency (VPCA) and US Priving minorial Protection Agency; and
- Immediate Atachjujija, of experienced polificatings): with the skills received to ensure
 the delivery into simely matter.

ldr. Bebilome (March 27, 2001) Paga 4

SH SCHKOULE

Once is prepared to mobilize for the field investigation includingly upon receipt of your authorization to precedul. We contribute that the individuality told, investigation provides can be completed within one day. The report documenting the results of the Pinde I ESA Can Bis completed by April 10, 2001, however, if your head for this organ, bourges likely after please recitiy us as spon as bossified. Vertal recommendations and contributes can be communicated immediately a space implement of the site walk-through, historical research, and government, regulatory research, any currecutes.

6.0 ESTIMATEURE K. PERMS AND CONDITIONS

Optimized where to complete this stope of work on a line and more talk basis in accordance with one Pee Adhedule. Equipment Charges and Limits of Herditz which are illustrated and are included in this proposal. The estendate for this stope of work is \$0.500.

The series of twork outlights, in his proposal will be conducted in activitient will. Outline notional factors are appeared to the proposal. Opinions, a copy of which is proposal as an association, and made person, this proposal. Opinion confidence by of accuracies, internal information, and repeats collected or generated curing the project. Once is object, so perform on twork with outliness of the content of the object of the project. Once is object, so perform on twork with outliness of the content of the relativistic forms of the object of the pulliness and competence of environmental and engineering annualing project for accordability from such that the strategians with the standard for appreciational services for accordability from such that the choice services are called a distinguishable or copy is also be expected for accordability from such that the content of the forms of the free of an information active insurers and curron. Certify for underwand that a site is free of an informational contention and no expressed or implied representations of warming prescribed by our plies, with the distortion contents and expression, with the lamits prescribed by our plies, with the distortion contents and expression of the forms of the strains prescribed by our plies, with the distortion thereore and expressions.

It has been Once is pleasure to prepare this probes for your. Should you have any conscious or comments; please do not be sold to a concruder. Joing in this project by signing a copy of this proposal and returning one currentles.

Respectfully Submitted,

OMNI KNVIRONMENTAL, INC.

Manhew N. Gikus Principal Chedrojet

Mr. Bot CHY ptgraft 27, 2000 $\rho_{GS} = 5$

Door your seceptance of Cas proposal places suga and report the white copy in Omni. By signing his proposal Bob Core authorizes Corol to begin the Phase I ESA to the property boared along the west side of MN Hwy 101 and worth of the Grow Rover (approximately 48 notes), in Rugues, Minuseita.

Signatite

CENNEL LUNGHOUSE

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Page Applicage Constitution for the property of the engineering of the constitution of the property of the constitution of the first of the constitution of the consti

Omoi Environmental, fisc. MATTHEW N. GIRGS, PAGE CPG.

1 Mic.

President, CEO and General Manager of Omni Priving operation, Inc.

Senior Project Geologist

Reperrise.

3 00 Junation of Underground Storage Tank (1337) Removals

 contraction of Bulk Plant Decommissioning FRVI balantal Assessments/Drilling Operations

Rented at Justisligations (RIs) and Corrective Action Designs (CAD₃).

Report Experience Provides project management for concided investigations/Someofise action costigues at potential electrical spill stars and dry obsering facilities. We regar of Havingtoniantal Site Assessments for property transfers and site investigations. For aded the project managements, May of 1995.

- A total of fourteen years experience in the creas of profound ois] geology and
 geological sampling and retting.
- Project Management of over 3060 UST and Allievigroup) Storage Tank (AST).
 Closure Assessments throughout the USS (feel along ever 200) progressing.
- Show Coll 105T increased and Dulk Plant Journamissioning love signs. Both sampling and consequences are tensing understrough marage in C (1.05T) and reducing small class in Minaesona. Wisconsin, Illinois. Machigan Tolland, N otnoby, Tumpossee, and Pennsylvania.
- Completed over SC Kernedial Investigation reports. Minimisely which included
 US I remove oversight and sampling, the instribution of introducting wells,
 development of solutions ground war, itemudiates shateging general reporting,
 strassessment factorisms and workshaps; and communication decome.
- Assistor's with the installation of artists compdiation waters, relating groundwater bump and treat, bouid may prime, and said venting against Suputroleum and chemical spin sites.

Past Lawiroussenial Coolegist, Dames & Moore, Inc., Mitmeapolis, Monneson, Raperience (1991-1993)

- Provided field each sight the ingluss struction of passive sense concerned cell for treathern of particlement transmission and in light state.
- Provided field oversigh, carring sea escapation as part of temestation of loads.
 following USA removal at various sizes to the blodwest.

- Monitored the installative of pump and treat ground water providing a system si at 1.09T store
- Polific and pumping tests for agures characteristic determinance of 10,90 sites.
- Print And SR Good Geologist diversight for a two year corrected investigation application. Since code on gastroation plant of around the

Environmental Geologist, GME Consulurus, Inc., Minnespelis, Minnespet (1989-1991)

- Provided project management consultation and export preparation in Physic [1870] if it is not be assessments (1884).
- Eboject Manager for SIST innurvals and preparation of no is fall investigation and occupative out on Treign supports the petroleum situs to Minnesota and Wiscons.
- Constitution I completed in place (09 to come in the region Minneado) sit
- Principaled in substitute explanation of the of origin well installed. The solutions at people in least its and for Physic □ 28 As.
- Prepared the hydrogonology good up with hydrology secuent for two ffill physics percent and Prove II vite investigations is. Minnesota and Wiscons.
- Diffected a local found endogram for a first in the Minimagnity year.
- Paints and American Sections for Testing and Materials (ASTM) Events and 7488 (Associated of Sour for engineering proposes

The difference and Groupist, IABO Associates, Italia Ruleigh i North (Georgia), 1987–1996;

- Assisted with the totalization of a self-venting system for a peroxicum comminated site.
- Participated in Stills of the conformal international members were inside attention to the assessments at path throughout sizes and for Phase II ESUs
- On formed permakingly tests, procediens, orders a land and help for good grade finite engineering purposes.

Matthew N. Cirkex. Flace

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Academic

B.A. (1987), Geology, North Carolina Sand

Background T. nymelly, Redright

OSHA Ф.Ч.: . Hazabčios Waste Oppiratious Standards

Ground Water Flow and Well Hydrautics, Shiversity of Wittemain, Stort.

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والعاليسك

Profidency.

Professional Minocecta Groundwater Assney (jour Wiscousia

Affiliations - Grand water Association. Not and Gestadwater Association.

Registration Registrated Professional Geologist - State of Wisconsin, No. 6.

Registrated Professional Geologist - State of Minnesota, No. 3 1581

Register (Groundwater Profess and in the Source Down-

Cautification, Cartined Professional Geologist #9-08 - American Justique.

of Professional Goulogists (AIPG).

Since of Whiteham, $S_{\rm tot}$ Assessor for feeking namely usual storage rank known

Jeff Beck Omni Environmental, Inc.

Title

Project Employer

Lapertise

Buyiconnental Sim Assussments Ground Water and Sodis Remediation Systems Analyst - Web Support Project Management

Recent Experience P(r) while product transgers r . Or remodial investigations

and Whitebuilke action designs

- Perform revironmental à le Arsonamenta for progeny ne esfort.
- Province USU sensyal oversight (a.1 sampling test count expandion of leaking more ground storage tank (1.080) sates in Minnesona, Wisconsin and Himsis.
- Provides aversight (or normalial investigation and corrective action design activities an entransmissed sizes, including dry available, sortice staticus, and other industria form margal facilities.
- Performer sinkhold surveys and spring ofting for joydrogening of covering trians compalition to well and appear to the areas.
- Provided system, support for logistics and deer control systems for a major server form of thomas site. project engineered (do-que through implementation, e.g. or Alenges to the finon strated system.
- Mainterned (SO 1803) and it SO certification for archipte processes within survey processes within.

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KYLE BURAVERTY Omni Environmental, Inc.

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- Assisting with room, compilation.

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 OSTIA 40-bit. Have, a one Waste Operations $\mathrm{Substant}_{\mathrm{BLS}}$

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United Stores

Timogrange Proficients التعاليبات



The EDR Radius Map with GeoCheck*

48 Acre Development Property West aide of MAN Tawy 101 Rugery, VIN 55374

Inquiry Number: 614423.3a

April 04, 2001

The Source For Environmental Risk Management Data

3590 Post Soad Southpart Connecticut (249)

Nationwice Customer Service

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EXECUTIVE SUMMARY

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АВВИР‰

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DATABASES AITH NO MAPPED XITIS

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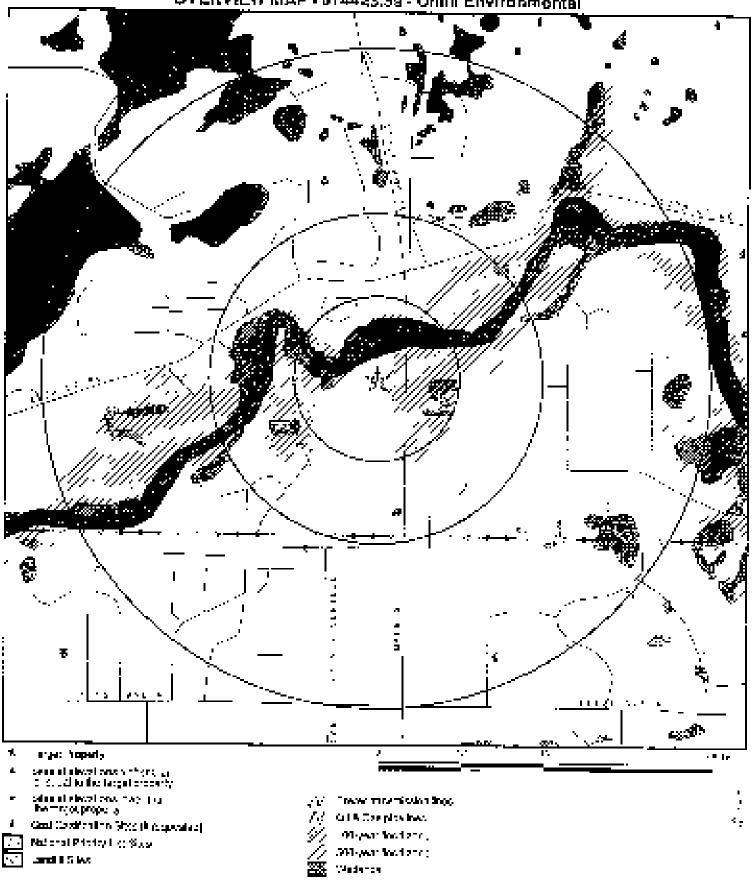
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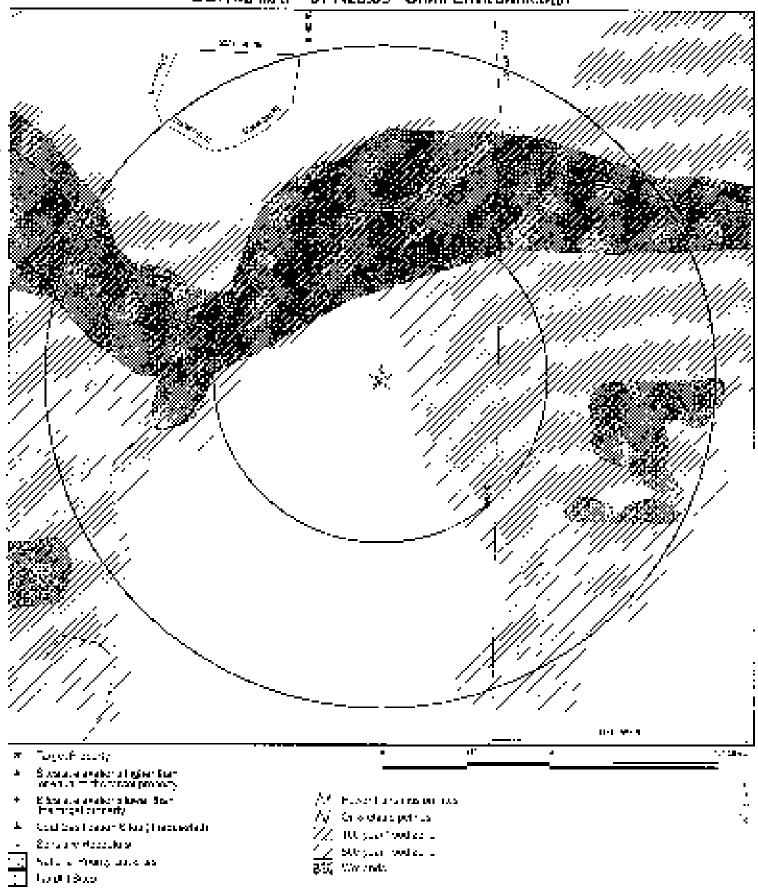
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GEOCHECK #- PHYSICAL SETTING SOURCE ADDENDUM

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GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

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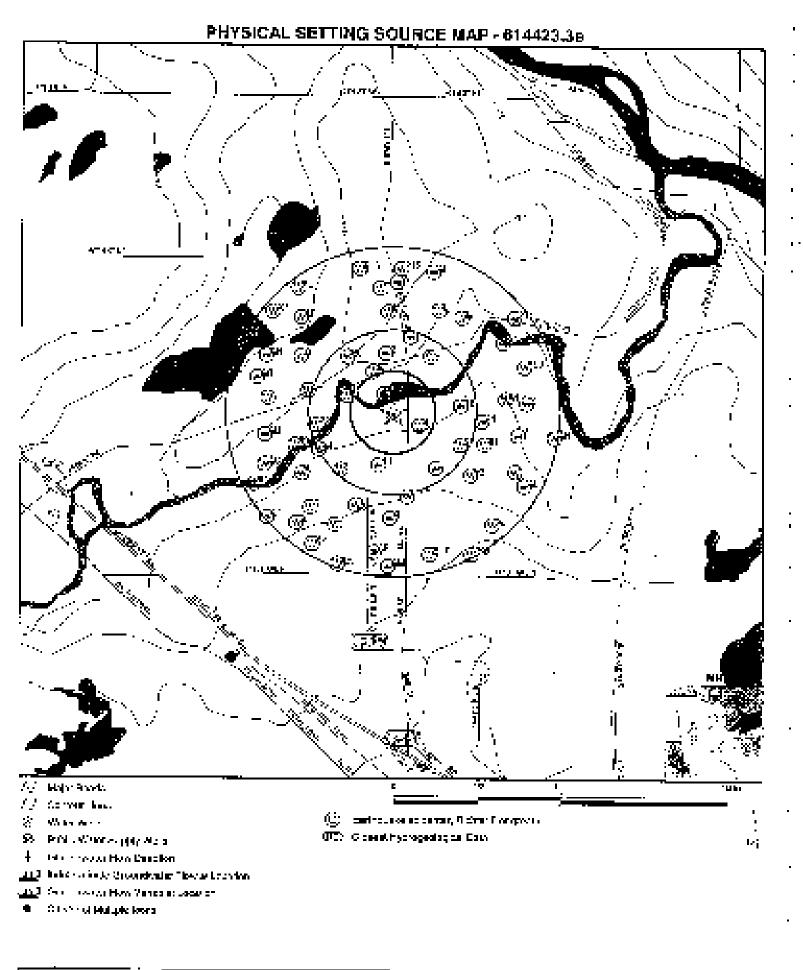
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Photograph #2 - Facing N: Subject Property



Photograph #3 - Facing W: Northeast low-lands.



Photograph #4 - Facing E: Subject Property

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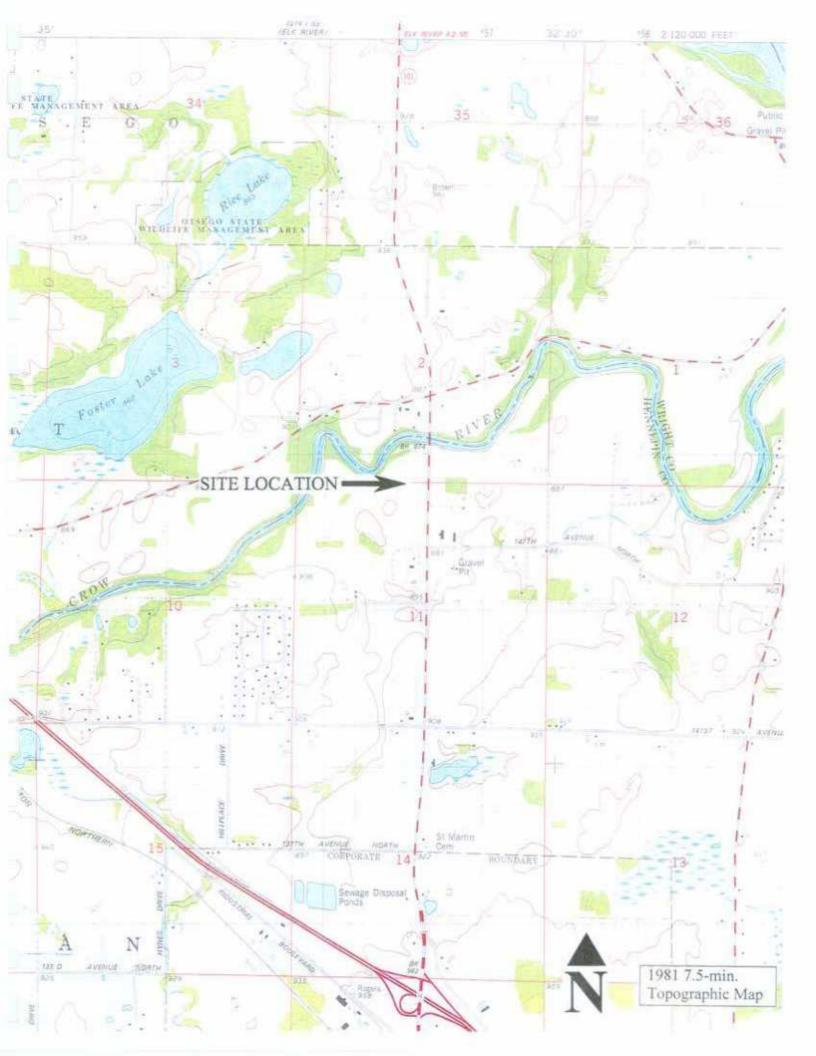
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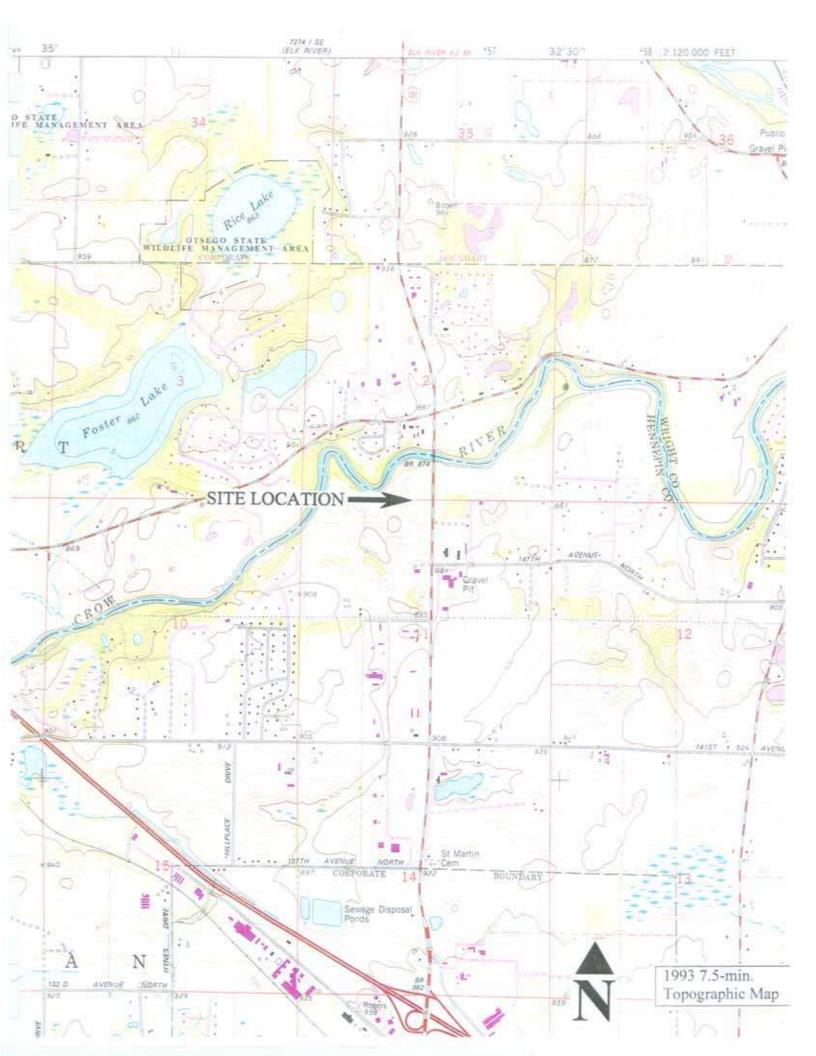
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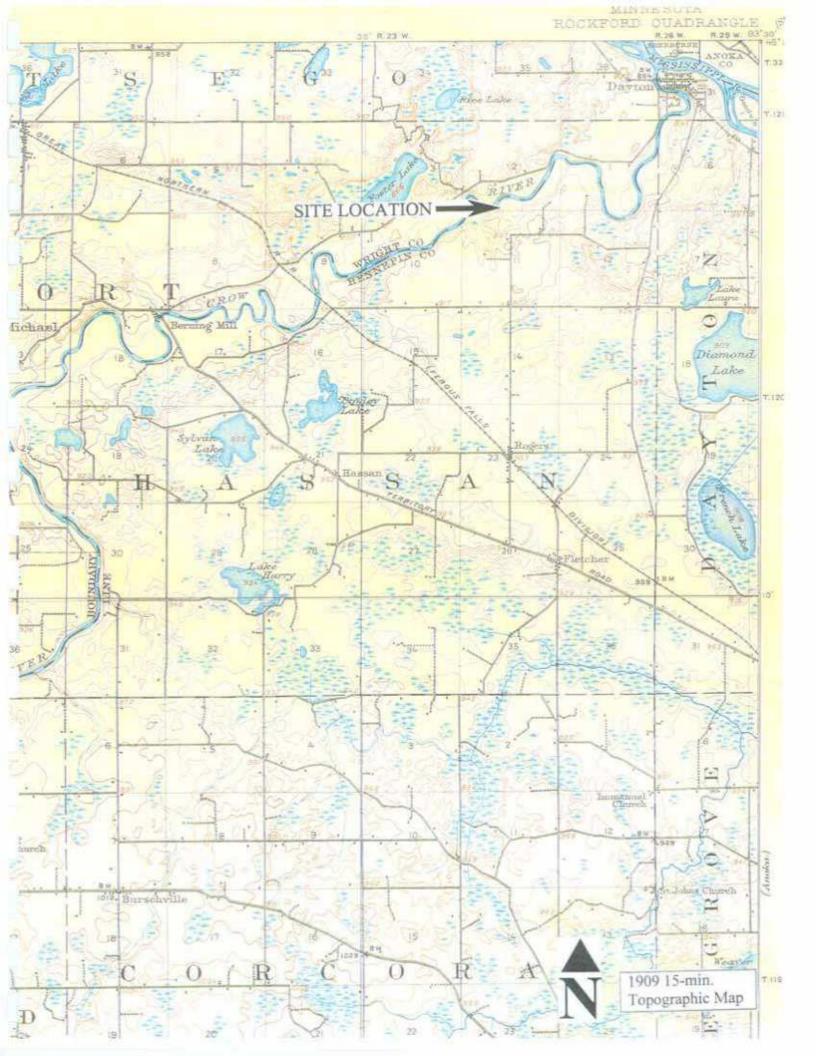


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Appendix E





Emissions Summary

Guidance

The total GHG emissions from each source category are provided below. You may also use this summary sheet to fill out the *Annual GHG Inventory Summary and Goal Tracking Form* (.xls) as this calculator only quantifies one year of emissions at a time.

https://www.epa.gov/climateleadership/target-setting

By entering the data below into the appropriate cell of the Annual GHG Inventory Summary and Goal Tracking Form, you will be able to compare multiple years of data.

If you have multiple Calculator files covering sub-sets of your inventory for a particular reporting period, sum each of the emission categories (e.g. Stationary Combustion) to an organizational total, which then can be entered into the *Annual GHG Inventory Summary and Goal Tracking Form*.

(A) Enter organization information into the orange cells. Other cells on this sheet will be automatically calculated from the data entered in the sheets in this workbook. Blue cells indicate required emission sources if applicable. Green cells indicate scope 3 emission sources and offsets, which organizations may optionally include in its inventory.

(B) The "Go To Sheet" buttons can be used to navigate to the data entry sheets

(b) The Go to sheet buttons can be used to	havigate to the data entry sheets.
Organizational Information:	
Organization Name:	Rogers EAW
Organization Address:	
Inventory Reporting Period:	NA Start: NA End: NA
Name of Preparer: Phone Number of Preparer: Date Prepared:	Sambatek 8/14/2023

Summary of	Organization's Emissions:	
	Scope 1 Emissions	
Go To Sheet	Stationary Combustion	1,386 CO ₂ -e (metric tons)
Go To Sheet	Mobile Sources	9,415 CO ₂ -e (metric tons)
Go To Sheet	Refrigeration / AC Equipment Use	0 CO ₂ -e (metric tons)
Go To Sheet	Fire Suppression	0 CO ₂ -e (metric tons)
Go To Sheet	Purchased Gases	0 CO ₂ -e (metric tons)
	Location-Based Scope 2 Emissions	
Go To Sheet	Purchased and Consumed Electricity	4,561 CO ₂ -e (metric tons)
Go To Sheet	Purchased and Consumed Steam	0 CO ₂ -e (metric tons)
	Market-Based Scope 2 Emissions	
Go To Sheet	Purchased and Consumed Electricity	4,561 CO ₂ -e (metric tons)
Go To Sheet	Purchased and Consumed Steam	0 CO ₂ -e (metric tons)
		- , ,
	Total organization Emissions Total Scope 1 & Location-Based Scope 2	15,361 CO ₂ -e (metric tons)
	Total Scope 1 & Market-Based Scope 2	15,361 CO ₂ -e (metric tons)
	Total coope 1 a Market Bassa coope 2	10,001
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Go To Sheet	Offsets	O CO ₂ -e (metric tons)
	Net Scope 1 and 2 Location-Based Emissions	15,361 CO ₂ -e (metric tons)
	Net Scope 1 and 2 Market-Based Emissions	15,361 CO ₂ -e (metric tons)
	Conne 3 Emissions	
Go To Sheet	Scope 3 Emissions Employee Business Travel	0 CO ₂ -e (metric tons)
Go To Sheet	Employee Commuting	0 CO ₂ -e (metric tons)
Go To Sheet	Upstream Transportation and Distribution	0 CO ₂ -e (metric tons)
Go To Sheet	Waste	3,739 CO ₂ -e (metric tons)
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	Required Supplemental Information	
Go To Sheet	Biomass CO ₂ Emissions from Stationary Sources	0 CO ₂ -e (metric tons)
Go To Sheet	Biomass CO ₂ Emissions from Mobile Sources	0 CO ₂ -e (metric tons)

Back to Intro

Back to Summary

Heat Content

Help

Scope 1 Emissions from Stationary Combustion Sources

CLIMATE LEADERSHIP

Guidance

- (A) Enter annual data for each combustion unit, facility, or site (by fuel type) in ORANGE cells on Table 1. Example entry is shown in first row (GREEN Italics).
 Select "Fuel Combusted" from drop down box.

 - Enter "Quantity Combusted" and choose the appropriate units from the drop down box in the unit column. If it's necessary to convert units, common heat contents can be found on the "Heat Content" sheet and unit conversions on
- the "Unit Conversion" sheet.

 (B) If fuel is consumed in a facility but stationary fuel consumption data are not available, an estimate should be made for completeness. See the "Items to Note" section of the Help sheet for suggested estimation approaches.

 (C) Biomass CO₂ emissions are not reported in the total emissions, but are reported separately at the bottom of the sheet.

Source	Source	Source	Fuel	Quantity	Units
ID	Description	Area (sq ft)	Combusted	Quantity Combusted	
LR-012	East Power Plant	12,517	Natural Gas	10,000	MMBtu
usiness F	Natural Gas	666,100	Natural Gas	26,089	MMBtu

GHG Emissions

Total Organization-Wide Stationary Source Combustion by Fuel Type

Fuel Type	Quantity Combusted	Units
Anthracite Coal	0	short tons
Bituminous Coal	0	short tons
Sub-bituminous Coal	0	short tons
Lignite Coal	0	short tons
Natural Gas	25,427,875	scf
Distillate Fuel Oil No. 2	0	gallons
Residual Fuel Oil No. 6	0	gallons
Kerosene	0	gallons
Liquefied Petroleum Gases (LPG)	0	gallons
Wood and Wood Residuals	0	short tons
Landfill Gas	0	scf

Total Organization-Wide ${\rm CO_2}$, ${\rm CH_4}$ and ${\rm N_2O}$ Emissions from Stationary Source Fuel Combustion

Fuel Type	CO ₂ (kg)	CH₄ (g)	N₂O (g)
Anthracite Coal	0.0	0.0	0.0
Bituminous Coal	0.0	0.0	0.0
Sub-bituminous Coal	0.0	0.0	0.0
Lignite Coal	0.0	0.0	0.0
Natural Gas	1,384,293.5	26,190.7	2,542.8
Distillate Fuel Oil No. 2	0.0	0.0	0.0
Residual Fuel Oil No. 6	0.0	0.0	0.0
Kerosene	0.0	0.0	0.0
Liquefied Petroleum Gases (LPG)	0.0	0.0	0.0
Total Fossil Fuel Emissions	1,384,293.5	26,190.7	2,542.8
Wood and Wood Residuals	0.0	0.0	0.0
Landfill Gas	0.0	0.0	0.0
Total Non-Fossil Fuel Emissions	0.0	0.0	0.0
Total Emissions for all Fuels	1,384,293.5	26,190.7	2,542.8

Total CO ₂ Equivalent Emissions (metric tons) - Stationary Combustion	1,385.7
Total Biomass CO ₂ Equivalent Emissions (metric tons) - Stationary Combustion	0.0

Help

CLIMATE LEADERSHIP

Scope 1 Emissions from Mobile Sources

Guidance

(A) Enter annual data for each vehicle or group of vehicles (grouped by vehicle type, vehicle year, and fuel type) in ORANGE cells in Table 1. Example entry is shown in first row (GREEN Italics). Only enter vehicles owned or leased by your organization on

this sheet. All other vehicle use such as employee commuting or business travel is considered a scope 3 emissions source and should be reported in the corresponding scope 3 sheets.

- Select "On-Road" or "Non-Road" from drop down box to determine the Vehicle Types available. Must select before picking vehicle type.
 Select "Vehicle Type" from drop down box (closest type available).
- Enter "Fuel Usage" in appropriate units (units appear when vehicle type is selected).
 - If mileage or fuel usage is unknown, estimate using approximate fuel economy values (see Reference Table below).
 - Vehicle year and Miles traveled are not necessary for non-road equiment.
- (B) When using biofuels, typically the biofuel (biodiesel or ethanol) is mixed with a petroleum fuel (diesel or gasoline) for use in vehicles. Enter the biodiesel and ethanol percentages of the fuel if known, or leave default values.

Biodiesel Percent: Ethanol Percent:

(C) Biomass CO₂ emissions from biodiesel and ethanol are not reported in the total emissions, but are reported separately at the bottom of the sheet.

Table 1 Mobile Source Fuel Combustion and Miles Traveler

Source	Source	On-Road or	Vehicle	Vehicle	Fuel	Units	Miles
ID	Description	Non-Road?	Туре	Year	Usage		Traveled
Fleet-012	HQ Fleet	OnRoad	Passenger Cars - Gasoline	2019	500		12,065
Construction equipment (non road		NonRoad	Construction/Mining Equipment - Gasoline (2 stroke)	2007	201,083		1
Passenger cars	Constructin Equipment	OnRoad	Passenger Cars - Gasoline	2007	686		3,72
Construction equipment (non road	Constructin Equipment	NonRoad	Construction/Mining Equipment - Diesel	2007	718,160	gal	1
Medium and Heavy duty trucks	Constructin Equipment	OnRoad	Medium- and Heavy-Duty Vehicles - Diesel	2007	1,437	gal	1,333
Light trucks	Constructin Equipment	OnRoad	Light-Duty Trucks - Gasoline	2007	1,340	gal	1,33
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Reference Table: Average Fuel Economy by Venicle Type					
Vehicle Type	Average Fuel Economy (mpg)				
Passenger Cars	24.1				
Motorcycles	44.0				
Diesel Buses (Diesel Heavy-Duty Vehicles)	7.3				
Other 2-axle, 4-Tire Vehicles	17.6				
Single unit 2-Axle 6-Tire or More Trucks	7.5				
Combination Trucks	6.0				

GHG Emissions

Total Organization-Wide Mobile Source Fuel Usage and CC₂ Emissions (On-Road and Off-Road Vehicles						
Fuel Type	Fuel Usage	Units	CO ₂ (kg)			
Motor Gasoline	203,109	gallons	1,783,297.0			
Diesel Fuel	719,597	gallons	7,347,085.4			
Residual Fuel Oil	C	gallons	0.0			
Aviation Gasoline	0	gallons	0.0			
Kerosene-Type Jet Fuel	0	gallons	0.0			
Liquefied Petroleum Gas (LPG)	C	gallons	0.0			
Ethanol	C	gallons	0.0			
Biodiesel	C	gallons	0.0			
Liquefied Natural Gas (LNG)	C	gallons	0.0			
Compressed Natural Gas (CNG)		scf	0.0			

Note: emissions here are only for the g Note: emissions here are only for the d

Total Organization-Wide On-Road Gasoline Mobile Source Mileage and CF₄/N₂O Emissions

otal Organization-Wide On-Road Gasoline Mobile	Vehicle Year		CH ₄ (g)	N ₂ O (g)
Vehicle Type Passenger Cars - Gasoline	1984-93	Mileage (miles)		N ₂ O (g)
accorde cars - cascille	1994	0		
	1995	0		
	1996	0		
	1997	0		
	1998	0		
	1999	0		
	2000	0		
	2001	0		
	2002	0		
	2003	0		
	2004	0		
	2005	0		
	2006	0		
	2007	3,726		
	2008	0		
	2009	0		
	2010	0		
	2011 2012	0		
	2012	0		
	2013	0		
	2015	0		
	2016	0		
	2016	0		
	2017	0		
	2019	0		
ht-Duty Trucks - Gasoline	1987-93	0		
ins, Pickup Trucks, SUVs)	1994	0		
,	1995	0		
	1996	0		
	1997	0		
	1998	0		
	1999	0		
	2000	0		
	2001	0		
	2002	0		
	2003	0		
	2004	0		
	2005	0	0.0	
	2006	0	0.0	
	2007	1,332	13.7	
	2008	0		
	2009	0		
	2010	0		
	2011	0		
	2012	0		
	2013	0		
	2014	0		
	2015	0		
	2016	0		
	2017	0		
	2018	0		
	2019	0		
avy-Duty Vehicles - Gasoline	1985-86	0		
	1987	0		
	1988-1989	0		
	1990-1995	0		
	1996	0		
	1997	0		
	1998	0		
	1999	0		
	2000	0		
	2001	0		
	2002	0		
	2003 2004	0		
	2004	0		
	2005	0		
	2006	0		
	2007	0		
	2009	0		
	2010	0		
	2010	0		
	2012	0		
	2012	0		
	2013	0		
	2014	0		
	2016	0		
	2017	0		
	2018	0		
	2019	0		
torcycles - Gasoline	1960-1995	0		

 $Total \ Organization \hbox{-Wide On-Road Non-Gasoline Mobile Source Mileage and CI_4/N_2O Emissions}$

Vehicle Type	Fuel Type	Vehicle Year	Mileage (miles)	CH₄(g)	N ₂ O (g)
		1960-1982	0	0	0
Passenger Cars - Diesel	Diesel	1983-2006	0	0	0
		2007-2019	0	0	0

		1960-1982	0		0
Light-Duty Trucks - Diesel	Diesel	1983-2006	0	0	0
		2007-2019	0	0	0
Medium, and Heavy Duty Vehicles	Diosal	1960-2006		0	0
iviedidin- and neavy-Duty venicles -	DIESEI	2007-2019	1,332	13	57
			0	0.0	0.0
			0	0.0	0.0
Light-Duty Cars			0	0.0	0.0
	Pehicles Diese 1960-2006 2007-2019 1,332	0.0	0.0		
	Biodiesel		0	0.0	0.0
	Ethanol		0	0.0	0.0
			0	0.0	0.0
Light-Duty Trucks	LPG		0	0.0	0.0
	LNG		0	0.0	0.0
	Biodiesel		0	0.0	0.0
	CNG		0	0.0	0.0
Madium Duty Twoles	LPG		0	0.0	0.0
Medium-Duty Trucks	LNG		0	0.0	0.0
	Biodiesel		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0	0.0
			0	0.0	0.0
	Ethanol		0	0.0	0.0
Hoovey Duty Trucko	CNG		0	0.0	0.0
Heavy-Duty Trucks			0	0.0	0.0
	LNG		0	0.0	0.0
	Biodiesel		0	0.0	0.0
	Methanol		0	0.0	0.0
	Ethanol		0	0.0	0.0
Buses	CNG		0	0.0	0.0
Duses	LPG			0.0	0.0
	LNG		0	0.0	0.0
	Biodiesel		0	0.0	0.0

Total Organization-Wide Non-Road Mobile Source Fuel Usage and $\text{CH}_4/\text{N}_2\text{O}$ Emissions

Vehicle Type	Fuel Type	Fuel Usage (gallons)	CH ₄ (g)	N ₂ O (g)
	Residual Fuel Oil	-	-	-
Ships and Boats	Gasoline (2 stroke)	-	-	-
Ships and Boats	Gasoline (4 stroke)	-	-	-
	Diesel	-	-	-
Locomotives	Diesel	-	-	-
Aircraft	Jet Fuel	-	-	-
Aliciali	Aviation Gasoline	-	-	-
	Gasoline (2 stroke)	-	-	-
Agricultural Equipment	Gasoline (4 stroke)	-	-	-
Agriculturar Equipment	Diesel	-	-	-
	LPG	-	-	-
Agricultural Offroad Trucks	Gasoline	-	-	-
Agricultural Oliroad Trucks	Diesel	-	-	-
	Gasoline (2 stroke)	201,083	2,435,115	68,368
Construction/Mining Equipment	Gasoline (4 stroke)	-	-	-
Construction/Mining Equipment	Diesel	718,160	675,070	624,799
	LPG	-	-	-
Construction/Mining Offroad Trucks	Gasoline	-	-	-
Construction/Mining Officad Trucks	Diesel	-	-	-
	Gasoline (2 stroke)	-	-	-
Laurand Cardon Fauinment	Gasoline (4 stroke)	-	-	-
Lawn and Garden Equipment	Diesel	-	-	-
	LPG	-	-	-
	Gasoline	-	-	-
Airport Equipment	Diesel	-	-	-
	LPG	-	-	-
	Gasoline (2 stroke)	-	-	-
Industrial/Commercial Equipment	Gasoline (4 stroke)	-	-	-
industriai/Commerciai Equipment	Diesel	-	-	-
	LPG	-	-	-
	Gasoline (2 stroke)	-	-	-
Logging Equipment	Gasoline (4 stroke)	-	-	-
	Diesel	-	-	-
	Gasoline	-	-	-
Railroad Equipment	Diesel	-	-	-
· · ·	LPG	-	-	-
	Gasoline (2 stroke)	-	-	-
Decreational Equipment	Gasoline (4 stroke)	-	-	-
Recreational Equipment	Diesel	-	-	-
	LPG	-	-	-

Total CO ₂ Equivalent Emissions (metric tons) - Mobile Sources	9,414.7
Total Biomass CO ₂ Equivalent Emissions (metric tons) - Mobile Sources	0.0

Notes:

^{1.} Average mpg values from the U.S. Department of Transportation, Federal Highway Administration, Highway Statistics 2019 (December 2021), Table VM-1.

Scope 2 Emissions from Purchase of Electricity

CLIMATE LEADERSHIP

The Indirect Emissions from Purchased Electricity Guidance document provides guidance for quantifying two scope 2 emissions totals, usi a location-based method and a market-based method. The organization should quantify and report both totals in its GHG inventory. To location-based method considers average emission factors for the electricity grids that provide electricity. The market-based method considers average emission factors for the electricity grids that provide electricity. The market-based method considers contractual arrangements under which the organization procures electricity from specific sources, such as renewable energy.

- (A) Enter total annual electricity purchased in kWh and each eGRID subregion for each facility or site in ORANGE cells **3able 1**.
 (B) If electricity consumption data are not available for a facility, an estimate should be made for completeness.
 See the "Items to Note" section of the Help sheet for suggested estimation approaches.
 (C) Select "eGRID subregion" from drop box and enter "Electricity Purchased."

 Use map (Figure 1) at bottom of sheet to determine appropriate eGRID subregion. If subregion cannot be determined fror the map, find the correct subregion by entering the location's zip code into EPA's Power Profiler:
 https://www.ena.org/aridionyes.crefile.tt/!

 https://www.epa.gov/egrid/power-profiler#/
- (D) See the market-based emission factor hierarchy on the market-based method Help sheet. If any of the first four types of emission factors are applicable, enter the factors in the yellow cells market as "<enter factor>". If not, leave the yellow cells as is, and eGRID subregion factors will be used for market-based emissions.

 Example entry is shown in first row(GREEN tlatics) for a facility that purchases RECs for 100% of its consumption, and therefore has a market-based emission factor of 0.

Help - Market-Based Method

Tips: Enter electricity usage by location and then look up the eGRID subregion for each location

If you purchase renewable energy that is less than 100% of your site's electricity, see the example in the market-based method Help sheet. Table 1. Total Amount of Electricity Purchased by eGRID Subregio					Market-Based Use these cells to enter applicable market-based emission factors						Location-Based			
					Emission Factors			Emissions			Emis	Emissions		
Source ID	Source Description	Source Area (sq ft)	eGRID Subregion where electricity is consumed	Electricity Purchased (kWh)	CO ₂ Emissions (lb/MWh)	CH ₄ Emissions (lb/MWh)	N ₂ O Emissions (lb/MWh)	CO ₂ Emissions (lb)	CH ₄ Emissions (lb)	N ₂ O Emissions (lb)	CO ₂ Emissions (lb)	CH ₄ Emissions (lb)	N ₂ O Emissions (lb)	
Bldg-012	East Power Plant		HIMS (HICC Miscellaneous)	200,000	0	0	0	0.0	0.0	0.0	228,640.0	22.0	3.4	
		666,100	MROW (MRO West)	10,191,330	<enter factor=""></enter>	<enter factor=""></enter>	<enter factor=""></enter>	9,982,407.7	1,059.9	152.9	9,982,407.7	1,059.9	152.9	
					<enter factor=""></enter>	<enter factor=""></enter>	<enter factor=""></enter>							
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					<enter factor=""></enter>	<enter factor=""></enter>	<enter factor=""></enter>							
Total Emiss	Total Emissions for All Sources 10,191,330						9,982,407.7	1,059.9	152.9	9,982,407.7	1,059.9	152.9		

CO ₂ Equivalent Emissions (metric tons)	
Location-Based Electricity Emissions	4,560.7
Market-Based Electricity Emissions	4,560.7

Indice. In CO2, CH₄ and N₂O emissions are estimated using methodology provided in EPA's Center for Corporate Climate Leadership Greenhouse Gas Inventory Guidance
Indirect Emissions from Purchased Electricity (January 2016).

Figure 1. EPA eGRID2020, April 2022



Back to Summary

Help CLIMATE LEADERSHIP

Scope 3 Emissions from Waste

Guidance

- (A) Enter annual waste data in ORANGE cells. Example entry is shown in first row (SREEN Italics).

 (B) First, choose the appropriate material then the disposal method from the drop down options. For the average-data method, use one of the mixed material types, such as mixed MSW. If the exact waste material is not available, consider an appropriate proxy. For example, dimensional lumber can be used as a proxy for wood furniture.

 (C) Choose an appropriate disposal method. Note that not all disposal methods are available for all materials. If there is a #NA or # Value error in the emissions column, you must pick a new material type or appropriate disposal method.

Table 1. Waste Disposal Weight by Waste Material and Disposal Method (CO₂, CH₄ and N₂O)

Source ID	Source Description	Waste Material	Disposal Method	Weight	Unit	CO₂e Emissions (kg)
3ldg-012 Nonresidential buildings Nonresidential buildings	East Power Plant Finished Goods Nonresidental waste Nonresidential recycling	Copper Wire Mixed MSW municipal solid waste Mixed Recyclables	Landfilled	1,000	metric ton metric ton metric ton	22,040 2,809,990 929,019
Nonresidential buildings	Nonresidental waste	Mixed MSW municipal solid waste	Combusted Recycled	5,930	metric ton	2,809,990
Nonresidential buildings	Nonresidential recycling	Mixed Recyclables	Recycled	9,367	metric ton	929,019
						1

GHG Emissions

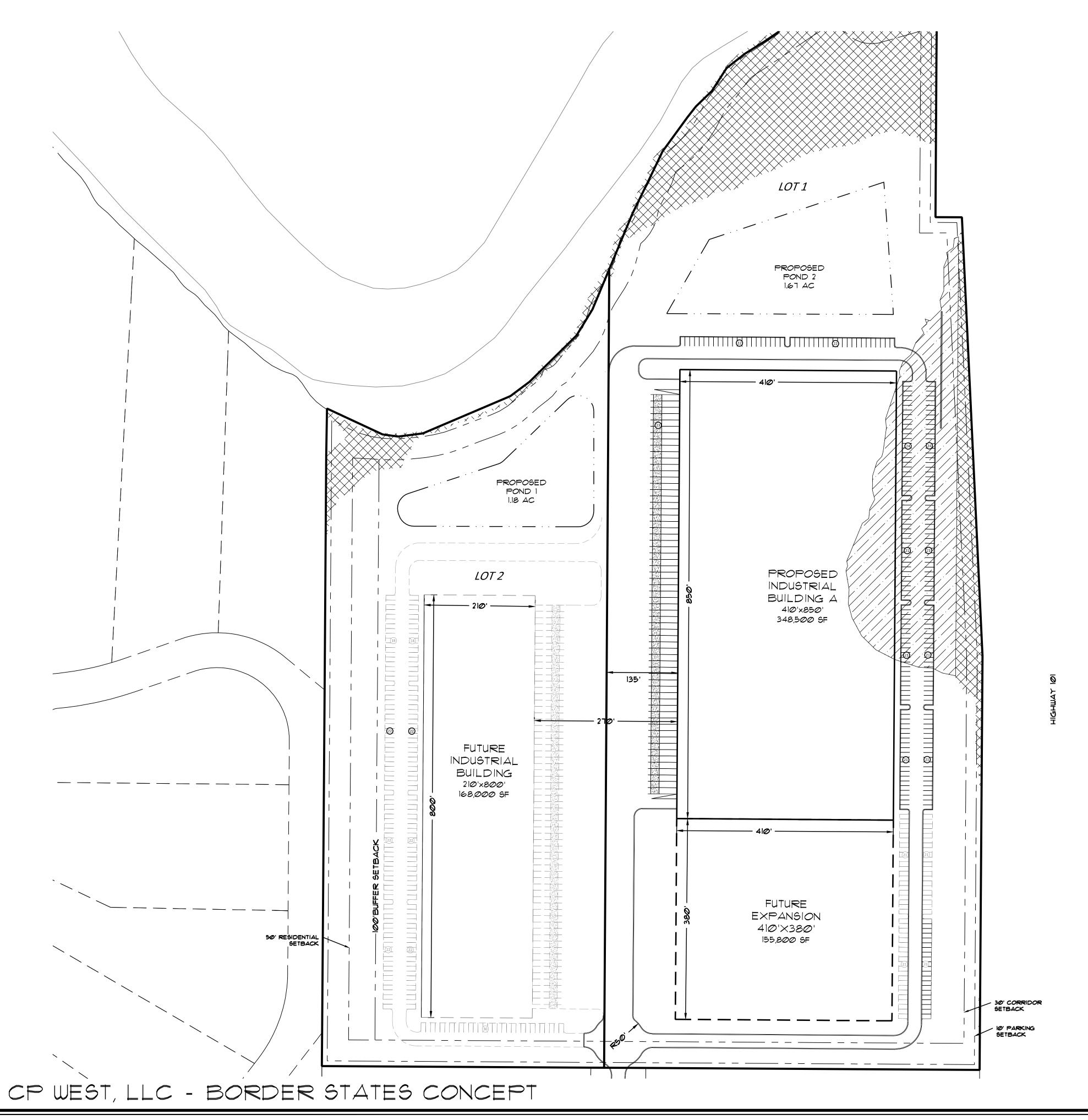
Total Emissions by Disposal Method

Waste Material	CO₂e (kg)
Recycled	929,019
Landfilled	1
Combusted	2,809,990
Composted	
Anaerobically Digested (Dry Digestate with Curing)	-
Anaerobically Digested (Wet Digestate with Curing)	-

Total CO₂ Equivalent Emissions (metric tons) - Waste

3,739.0

Appendix F



LEGEND _____ - BOUNDARY LINE - STORMWATER POND - FEMA FLOOD ZONE 100 YEAR FLOOD PLAIN

IMPACTED 100 YEAR FLOOD PLAIN

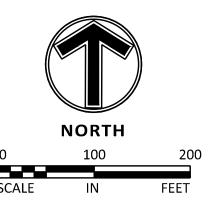
AREAS LOT I 29.81 AC 115.57 AC 45.38 AC LOT 2 GROSS LOT FLOOD PLAIN 6.47 AC NET DEVELOPABLE 38.91 AC (55.1%) 20.09 AC (34.0%) 612,311 SF IMPERVIOUS (MAX 15%) BUILDINGS BUILDING COVERAGE LOT I (38.8%) 11.58 AC BUILDING COVERAGE LOT 2 (24.8%) 3.86 AC

<u>Parking ratios</u> Industrial parking: I per 2000 sf Office: I per 200 sf 85/15 FOR EACH BUILDING

STORMWATER PONDING

PARKING SUMMARY BUILDING AREA REQUIRED <u>PROVIDED</u> PROPOSED BUILDING A 348,500 SF 411 STALLS 218 STALLS 180 STALLS 184 STALLS BUILDING EXPANSION 155,800 SF FUTURE BUILDING 168,000 SF 198 STALLS 198 STALLS

(18.8%) 2.85 AC



Appendix G





To: Erik Miller, PE, Principal

Sambatek

From: Matt Pacyna, PE, Principal

Transportation Collaborative & Consultants, LLC

Date: October 17, 2023

Subject: Cote Industrial Development Traffic Study

INTRODUCTION

TC2 completed a traffic study for the proposed Cote Industrial development in the City of Rogers. The site under consideration, shown in Figure 1, is generally bounded by Highway 101 to the east, Raspberry Drive to the west, 147th Avenue to the south, and the Crow River to the north. The main objectives of the study are to quantify current area operations, identify transportation impacts associated with proposed development, and recommend improvements, if necessary, to ensure safe and efficient operations for all users. This study will support the transportation section of the Environmental Assessment Worksheet (EAW) being completed for the development. The following study assumptions, methodology, and findings are offered for consideration.



Figure 1 Subject Site

EXISTING CONDITIONS

Existing conditions were reviewed within the study area to establish current traffic conditions to help determine impacts associated with the proposed development. The evaluation of existing conditions included collecting traffic volumes, observing transportation characteristics, and analyzing intersection capacity, which are described in the following sections.

Traffic Volumes

Vehicular intersection turning movement counts were collected at the following locations on Tuesday, September 12, 2023, from 6 a.m. to 7 p.m.

- County Road 144 (141st Avenue) and Raspberry Drive
- County Road 144 (141st Avenue) and Marie Avenue
- County Road 144 (141st Avenue) and Northdale Boulevard

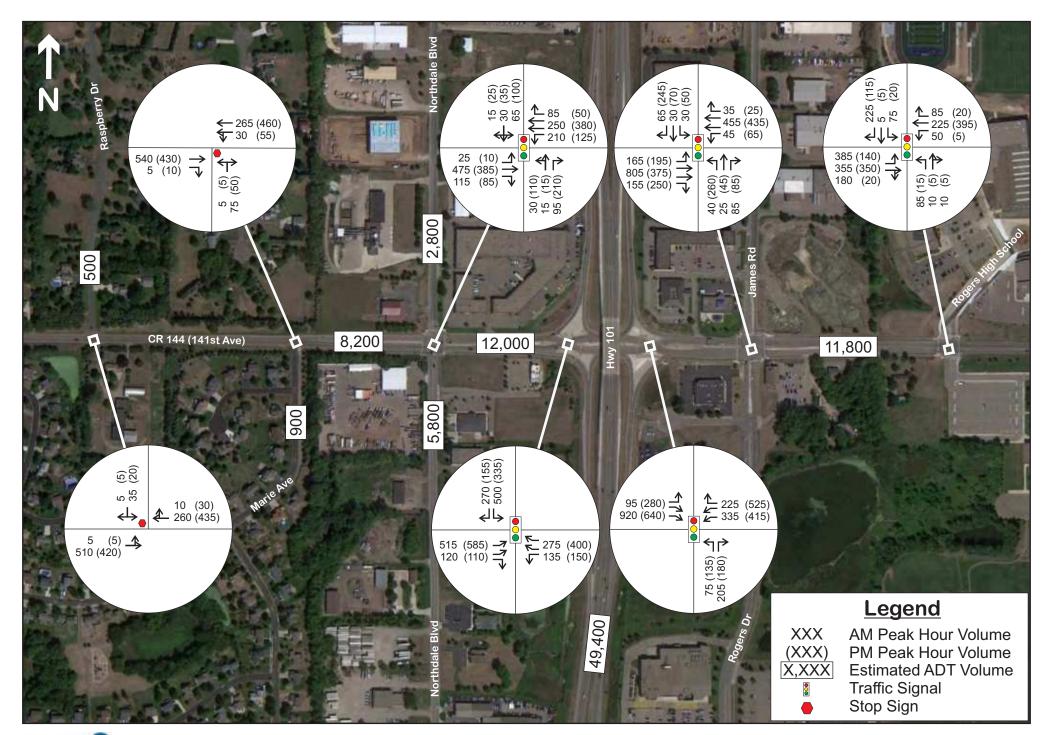
Intersection turning movement counts collected in October 2022 along County Road 144 (141st Avenue) between Northdale Boulevard and Rogers High School were also reviewed. Based on this review, the traffic volumes and patterns from October 2022 and September 2023 are generally consistent, with the September 2023 a.m. and p.m. peak hour volumes approximately five (5) to 15% higher. Therefore, the October 2022 volumes were modified to reflect 2023 conditions. Note that the a.m. and p.m. peak hours within the study area represent 7 to 8 a.m. and 4:30 to 5:30 p.m., respectively. Historical average daily traffic volumes were provided by MnDOT and/or estimated based on the data collected.

Transportation Characteristics

Observations were conducted within the study area to identify various transportation characteristics such as roadway geometry, traffic controls, speed limits, and multimodal facilities. A general overview of key roadways within the study area is as follows:

- CR 144 (141st Avenue) generally a 2-lane roadway west of Marie Avenue and east of the Rogers High School / Middle School access; the roadway expands to a 4-lane section between Northdale Boulevard and James Road/Rogers Drive. A multi-use trail is on the south side of the roadway, which connects Hassan Elementary and Rogers Middle School; there is also a multi-use trail on the north side of the roadway between James Road and Rogers High School. The speed limit is 40 mph.
- Northdale Boulevard generally a 2-lane roadway with no turn lanes, except a northbound right-turn lane at CR 144 (141st Avenue). No multimodal facility is present; the speed limit is 40-mph.
- James Road / Rogers Drive generally a 2-lane roadway north of CR 144 (141st Avenue) and a
 4-lane undivided roadway to the south. A multi-use trail is on the west side from CR 144 (141st
 Avenue) to approximately 600' to the north; a multi-use trail is on the east side south of CR 144
 (141st Avenue), with a gap near Broadway Pizza. The speed limit ranges from 35 to 40-mph.

Most study intersections are signalized, except for Raspberry Drive and Marie Avenue, which are both side-street stop controlled. Current signal timing was provided by MnDOT, who operates and maintains the signals long the corridor. Existing geometrics, traffic controls, and volumes within the study area are illustrated in Figure 2.





Intersection Capacity

Intersection capacity was evaluated using Synchro/SimTraffic Software (version 11), which uses methods outlined in the *Highway Capacity Manual, 6th Edition*. The software is used to develop calibrated models that simulate observed traffic operations and identify key metrics such as intersection Level of Service (LOS) and queues. These models incorporate collected traffic, pedestrian, and bicyclist volumes, traffic controls, and driver behavior factors.

Level of Service (LOS) quantifies how an intersection is operating. Intersections are graded from LOS A through LOS F, which corresponds to the average delay per vehicle values shown in Table 2. An overall intersection LOS A though LOS D is generally considered acceptable in the Twin Cities. LOS A indicates the best traffic operation, while LOS F indicates an intersection where demand exceeds capacity.

Level of	Average Delay / Vehicles						
Service	Stop, Yield, and Roundabout Intersections	Signalized Intersections					
Α	< 10 seconds	< 10 seconds					
В	10 to 15 seconds	10 to 20 seconds					
С	15 to 25 seconds	20 to 35 seconds					
D	25 to 35 seconds	35 to 55 seconds					
Е	35 to 50 seconds	55 to 80 seconds					
F	> 50 seconds	> 80 seconds					

Table 1 Level of Service Thresholds

For side-street stop-controlled intersections, special emphasis is given to providing an estimate for the level of service of the side-street approach. Traffic operations at an unsignalized intersection with side-street stop control can be described in two ways. First, consideration is given to the overall intersection level of service, which takes into account the total number of vehicles entering the intersection and the capability of the intersection to support the volumes. Second, it is important to consider the delay on the minor approach. Since the mainline does not have to stop, most delay is attributed to the side-street approaches. It is typical of intersections with higher mainline traffic volumes to experience high-levels of delay (i.e., poor levels of service) on the side-street approaches, but an acceptable overall intersection level of service during peak hour conditions.

The existing intersection capacity analysis results, summarized in Table 2, indicate that all study intersections and approaches currently operate at an acceptable LOS D or better during typical weekday a.m. and p.m. peak hours. In addition, existing queues are generally maintained within the current turn lanes provided. However, queues in the eastbound through lane along CR 144 (141st Avenue) at Northdale Boulevard occasionally extend beyond the adjacent left- and right-turn lanes, which limits access for approximately five percent of the peak hours. In addition, queues in the northbound left-turn lane from Rogers Drive to CR 144 (141st Avenue) extend beyond the provided turn lane storage during approximately 20 percent of the p.m. peak hour; this queuing issue is related to the relatively short-turn lane (i.e., 120 feet) and the peak hour traffic volume demand for this movement. No mitigation for these queueing issues is provided to understand how the proposed development will impact these areas. Thus, there are no significant existing operational issues from a capacity perspective within the study area.

Table 2 Existing Intersection Capacity								
CD 444 / 444st Avenue Interception	Traffic	Level of Service (Delay)						
CR 144 / 141st Avenue Intersection	Control	AM Peak Hour	PM Peak Hour					
Raspberry Drive	SSS	A / C (17 sec)	A / C (17 sec)					
Marie Avenue	SSS	A / B (14 sec)	A / B (13 sec)					
Northdale Boulevard	Signal	B (13 sec)	B (14 sec)					
Hwy 101 West Ramps	Signal	B (12 sec)	B (13 sec)					
Hwy 101 East Ramps	Signal	B (10 sec)	A (9 sec)					
James Road / Rogers Drive	Signal	B (10 sec)	B (19 sec)					
Rogers High School / Middle School	Signal	B (13 sec)	A (7 sec)					

Table 2 Existing Intersection Capacity

SSS – Side-Street-Stop

PROPOSED DEVELOPMENT

The proposed development, as shown in Figure 3, is generally bounded by Highway 101 to the east, Raspberry Drive to the west, 147th Avenue to the south, and the Crow River to the north. As proposed, the project would include three (3) industrial warehouse buildings totaling approximately 557,000

square feet. One access to the site is planned via Northdale Boulevard, which connects with CR 144 (141st Avenue) and eventually Highway 101. For purposes of this study, construction was assumed to be completed by the end of 2025.



Figure 3 Proposed Site Plan

TRAFFIC FORECASTS

Traffic forecasts were developed for year 2026 no build and build conditions, which represents oneyear after completion without and with the proposed development. The traffic forecasts include general background growth and trip generation from the proposed development. The following information summarizes the traffic forecast development process.

Background Growth

To account for general background growth in the study area, an annual growth rate of one (1) percent was applied to the existing traffic volumes to develop year 2026 background traffic forecasts. This growth rate is consistent with historical ADT volume growth over the past 15-years in the area, as well as future traffic forecasts from *Hennepin County's Transportation: Mobility 2040 Plan*. The year 2026 no build traffic forecasts are illustrated in Figure 4.

Proposed Development Trip Generation

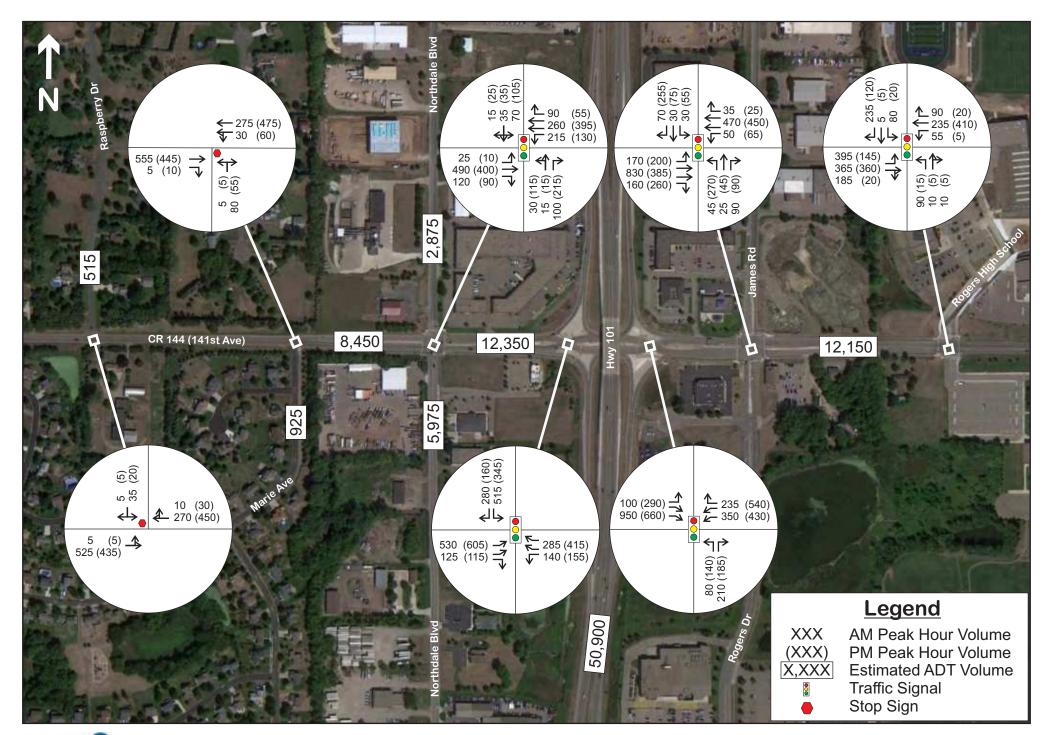
The trip generation estimate for the proposed development was created using the *ITE Trip Generation Manual, 11th Edition* and includes trips for typical weekday a.m. and p.m. peak hours, as well as daily. For purposes of this study and to provide a more conservative assessment, the overall industrial development was assumed to be 85 percent warehouse and 15 percent office; this equates to 473,450 square feet of warehouse and 83,550 square feet of office space. Using this assumption, the proposed development, as shown in Table 3, is estimated to generate 207 a.m. peak hour (174 in/ 33 out), 205 p.m. peak hour (44 in / 161 out), and 1,716 daily trips. No modal reductions were applied to provide a conservative estimate.

Table 3 Trip Generation Summary

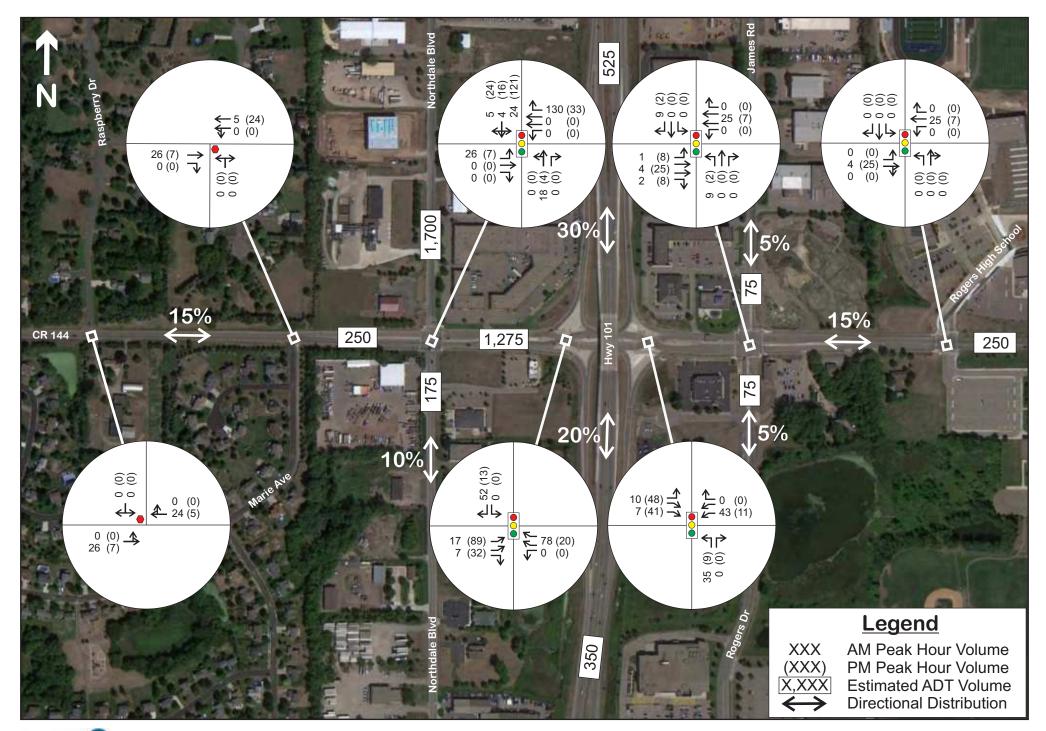
Land Has Type //TE Code)	Size	AM Pea	ak Hour	PM Pea	Daily		
Land Use Type (ITE Code)	Size	In	Out	ln	Out	Dally	
Proposed Development							
Warehouse (150)	473,450 SF	62	18	24	61	810	
General Office (710)	83,550 SF	112	15	20	100	906	
Total (All Vehicles)	557 000 SE	174	33	44	161	1,716	
Total (Trucks)	557,000 SF	8	7	5	5	292	

Note that given the industrial warehouse land use, a proportion of the site trip generation is expected to be heavy commercial vehicles (i.e., trucks). To help determine the number of trucks associated with the proposed development, the *ITE Trip Generation Manual* was again used. Based on this approach, the proposed development is estimated to generate 15 a.m. peak hour, 10 p.m. peak hour, and 292 daily truck trips, which equates to approximately 5 to 15 percent of the overall site generated trips.

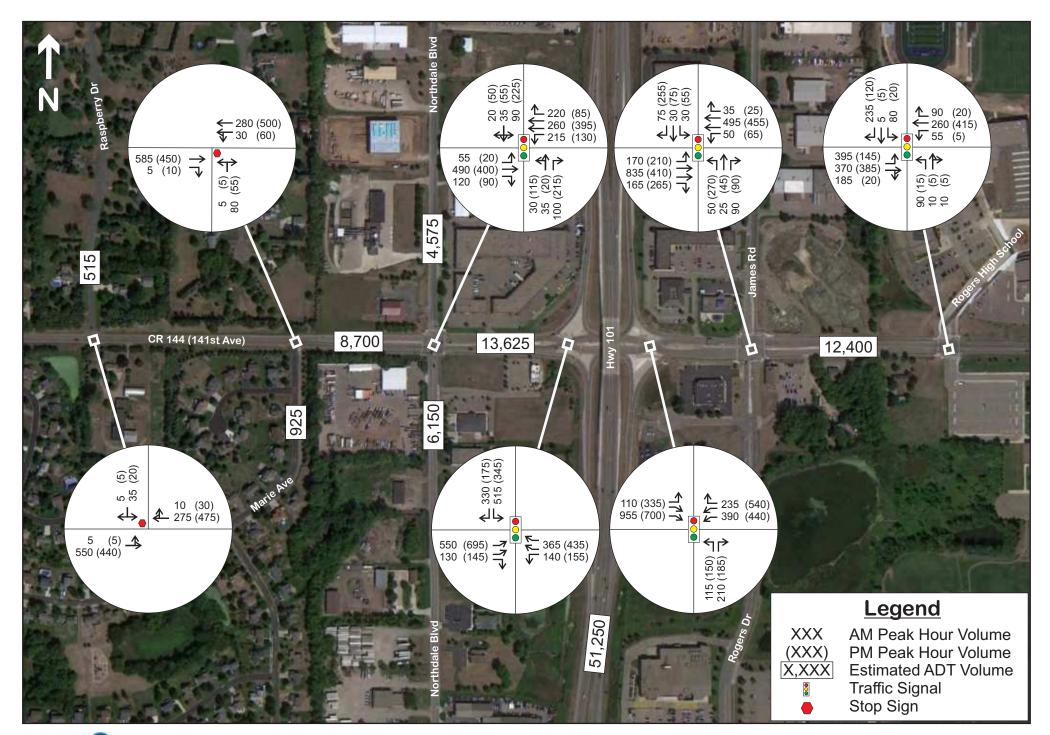
Site generated trips were distributed throughout the study area based on the directional distribution in Figure 5, which is based on a combination of existing area travel patterns and engineering judgment. The resultant year 2026 build condition traffic forecasts are illustrated in Figure 6.













YEAR 2026 CONDITIONS

To understand impacts associated with the proposed development, a year 2026 no build and build condition intersection capacity analysis was conducted. Table 4 provides a summary of the year 2026 no build and build condition capacity analysis and pertinent queuing information.

Table 4 Year 2026 Intersection Capacity Analysis Summary

	Year 2026 Level of Service (Delay - Seconds)							
CR 144 (141st Avenue) Intersection	AM Pea	ak Hour	PM Peak Hour					
	No Build	Build	No Build	Build				
Raspberry Drive	A / C (18 sec)	A / C (18 sec)	A / C (18 sec)	A / C (19 sec)				
Marie Avenue	A / C (15 sec)	A / C (15 sec)	A / B (13 sec)	A / B (13 sec)				
Northdale Boulevard	B (14 sec)	B (16 sec)	B (15 sec)	C (21 sec)				
Hwy 101 West Ramps	B (12 sec)	B (12 sec)	B (14 sec)	B (14 sec)				
Hwy 101 East Ramps	B (10 sec)	B (10 sec)	B (10 sec)	B (10 sec)				
James Road / Rogers Drive	B (10 sec)	B (10 sec)	C (20 sec)	C (21 sec)				
Rogers High School / Middle School	B (14 sec)	B (14 sec)	A (8 sec)	A (8 sec)				
Northdale Boulevard: 95 th Percentile Qu	ueuing							
Southbound	150 feet	180 feet	180 feet	360 feet				
Eastbound Thru Lane	255 feet	270 feet	270 feet 210 feet 2					
James Avenue / Rogers Drive: 95th Perc	entile Queuing							
Northbound Left-Turn Lane*	70 feet	80 feet	325 feet	385 feet				

^{*} The northbound left-turn lane is approximately 120 feet in length; the taper is an additional 100 feet.

Results of the year 2026 intersection capacity analysis indicate that all study intersections and approaches are expected to continue to operate at an acceptable LOS D or better during typical weekday a.m. and p.m. peak hours under both no build and build conditions. The overall change in operations resulting from the proposed development from an intersection delay perspective is relatively minimal and within acceptable industry standards. Note that the location most impacted by the proposed development will be the CR 144 (141st Avenue) and Northdale Boulevard intersection, with an average increase of two (2) to six (6) seconds of delay per vehicle during the a.m. and p.m. peak hours respectively. Southbound queues along Northdale Boulevard will extend up to approximately 360 feet during the p.m. peak hour, which will impact access to a few driveways in the area.

To limit any queuing impacts along Northdale Boulevard during the p.m. peak hour, the addition of a southbound right-turn lane and optimization of the intersection signal timing should be considered. With these changes, the Northdale Boulevard intersection would operate at an overall LOS B (18 seconds) and the average and 95th percentile queues in the southbound direction would be approximately 160 feet and 260 feet, respectively. At this level of queues, impacts to the North 101 Business Park access would be minimal. Note that any intersection modifications would need to be discussed further with Hennepin County before implementation.

The northbound left-turn lane queuing issue at James Road / Rogers Drive is expected to continue, however the proposed development is not expected to significantly impact this intersection or its operation. Minor signal timing adjustments could help reduce these queues, but given the relatively short-turn lane, they cannot be fully mitigated without additional geometric modifications. Further discussion with Hennepin County should occur to determine if any modifications should be considered for this location given the relatively small impact of the proposed development.

OTHER CONSIDERATIONS

A review of the proposed site plan does not indicate any major issues. Although special care should be taken to locate signage and landscaping to avoid creating any sight distance issues and truck maneuverability should be reviewed to limit potential internal circulation conflicts. There are no multimodal facilities along Northdale Boulevard, but preservation of right-of-way for a future multimodal facility should be considered.

CONCLUSIONS

Based on the findings of the study, the following conclusions are offered for consideration.

- 1) All study intersections and approaches currently operate at an acceptable LOS D or better during typical weekday a.m. and p.m. peak hours; there are a few locations with minor queuing issues although no mitigation was provided to understand impacts of the proposed development.
- 2) The proposed development includes three (3) industrial warehouse buildings totaling approximately 557,000 square feet; construction was assumed to be completed by the end of year 2025.
- 3) Traffic forecasts were developed for year 2026 no build and build conditions, which included a one (1) percent annual background growth rate and traffic generated by the proposed development.
 - a. The overall site is estimated to generate 207 a.m. peak hour (174 in/ 33 out), 205 p.m. peak hour (44 in / 161 out), and 1,716 daily trips; approximately 15 a.m. peak hour, 10 p.m. peak hour, and 292 daily trips will be heavy commercial vehicles (i.e., trucks), which equates to approximately 5 to 15 percent of the overall site generated trips.
- 4) Key takeaways from the future year 2026 capacity analysis, include:
 - a. All study intersections and approaches are expected to continue to operate at an acceptable LOS D or better during typical weekday a.m. and p.m. peak hours under both no build and build conditions; the overall change in operations resulting from the proposed development from an intersection delay perspective is relatively minimal and within acceptable industry standards.
 - b. Southbound queues along Northdale Boulevard will extend up to approximately 360 feet during the p.m. peak hour, which will impact access to a few driveways in the area.
 - c. The northbound left-turn lane queuing issue at James Road / Rogers Drive is expected to continue, however the proposed development is not expected to significantly impact this intersection or its operation.

- Page 12
- 5) To limit any queuing impacts along Northdale Boulevard during the p.m. peak hour, the addition of a southbound right-turn lane and optimization of the intersection signal timing should be considered.
- 6) To reduce the northbound left-turn queuing impacts along Rogers Drive during the p.m. peak hour, minor signal timing adjustments could be implemented, but would not fully mitigate the queues without additional geometric modifications.
- 7) Further discussion with Hennepin County should occur to review the mitigation strategies and determine implementation and if any additional modifications should be considered.
- 8) Special care should be taken to locate signage and landscaping to avoid creating any sight distance issues and truck maneuverability should be reviewed to limit potential internal circulation conflicts; preservation of right-of-way for a future multimodal facility should be considered.



Appendix H



CONSULTATION

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- * MACLRIALS
- KAVIRIMANITATAT

REPORT OF PRELIMINARY GEOTECHNICAL EXPLORATION AND REVIEW

Hassan Township Development

147th Average and Highway 101 Hassan Township, Vinnesota

AET Job No. 20-01113

Date:

April 16, 2001

Proposed fire

Robert Con. 6624 Parkwaya) Fdina, MM 85436

St. Paril, MN Delath, MN Markato, MN Markhall, MN Rochester, MN Bernigh, MN Walsan, WI La Choste, WI

EVALUATION OF A L



April 16, 2001

Mi Rober, Cate 19024 Parkwood Rose Edica, MN 55450

RE: Proliminary Goolechmical Exploration & Review Bassau Township Development 147" Avenue and Highway 101 Hassau Township, Minnesott AET Job No. 20401117

Desir Mir. Clore

This import persons the results of a substrate exploration program and procedured engineering review for the referenced product. We are submitting three copies of the report to you.

France rest free to contact and if you have any questions about the report. I can also be confected for arranging additional exploration and construction observation resping services during meanthwest phase.

Very mility you is.

Njegorji. Lago. Njegorja

Prone: (651) 61946484 Fax: (651) 66541879

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Villant

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PRELIMINARY GEOTECHNICAL EXPLORATION AND REVIEW FOR

HASSAN TOWNSHIP DEVELOPMENT 147^{III} AVENUE AND HIGHWAY 101 HASSAN TOWNSHIP, MINNESOTA

ART JOB NO. 20-01113

SL MMARY

<u>Puruose</u>

A multipurpose (less/opinem is proposed for construction in the confirmer quadrate of 140° Avenue and Highway 101 in Hassan Township, Miancaola. The purpose of our work on this project is to explice the anhautface committees at the site and provide preliminary gentechnical engineering recommendations to assist you and the project term in planning, design, and construction.

Scope

To accomplish the above purpose, you have authorized our firm to drill ten standard. National rest horizon at the site and purpose this geotechnical engineering report.

<u>Findings</u>

The test begings indicate a generalized soil profile of 1 to 4" of fill and/or tagsoil over alluvial (water depositor) soils. Greinst water was ancountered in three of the burings at depths of allout 11" to 19% below the surface, corresponding to about elevations 62.8 to 55.3 based on our assumed datum

Recommendations

These recommendations are contensed for your convenience. Please study our COTIC COCIT (OC stockled recommendations).

- [- should be possible to develop the site for construction of buildings on conventional shallow appeal 10004(diens.)
- General grading should and note excovering all fill, togsoil, and far clays from below rill building areas. In although any soft clayer allowed scale should also be comewed from below structural areas. This shift correction should builde a 1:1 oversize and sortage compaction of any toose passes of mind soils which are expased.
- New fill soils placed to gene n congruencein grades should be compacted to a minimum of 98% of the Standard Programmaximum dry density density (ASTM:D698).

- Dill which supports the floor sub only, outside of the 1:1 oversize who below footings, our have a reduced minimum compaction level of 95% of the Samulus Protect density.
- Incillawing spir contection, the spread fracings cur, then he designed for on a lowanter
 two ing pressure of up to 3,000 psf. These fraundations can be supported on the course
 afterior sands, newly placed fill, or competent clayey alloyial soils.

INTRODUCTION

This report inteserts the results of a substitute expliciation propraint and geolectrical engineering for ewitoring proposed Hassain Township Developmen, at the northwest geolectric of 1475 Average and Highway 101 in Hassain Township, Minnesota.

To present you. Associate Engineering Peaces, (no (ALPI), and the public, we authorize use of opinions and reasonmental dual in this region only by you not your project form for this specific project. Controlles in other uses are inscoded. Even frough this agent is not inscribed to provide sufficient interminents accurately determine quantities and location of production materials, or recommend that your potential computations be advised of the report availablears.

Scope of Services

ABT's work on the project was parliamed in accordance with our proposal dated. March 28, 2001. The amborized scape of services for this project consists of the following:

- Perform ten standard perer at on rest bacings to confirm a depole of 16°.
- Construct a profiminary geometrical acquirecting enalysis based on the Exive information.
- Prepare r formal report.

The so good on work is included for gamestanical perposes only. This scope is not intended to explore the following transfer or provide opinious regarding the same of the site relative to "westend" definitions.

PROJECT INFORMATION

A protrigate year development is proposed for construction confined 147* Avenue and west of Highway 104 in Assaul Township. Microsopa, The plan furnished to us indicates that about the western half of the site will be used for multi-fandly housing or residential effices and the environ person of the site will include office/warehouse buildings.

Ar this time, we have very little information regarding the proposed construction. We assume the particle of the subjection of the particle hight would-framed construction. In addition, we assume these tends of the organization will be retained that are grade or basedous constructions with one to two stories above-grade. We estimate reading wall limits of up to 5 kips per limit life, and column loads of to to [10] kips.

We assume the office wardings (with new will be also on grade structures with high overhead attenuate. In addition, we assume they will be constructed using either mastery block to pretast someree walls, structural stor! frames, and metal roof decks. We estimate bearing wall loads of up to 8 kips per lineal foot and common leads of up to 300 kips.

We recommond addynoma! northgs will be drilled at the site prior to their design and construction.

Foundation Design Assumptions

Our population design assumptions include a minimum recorder as safety of 3 with respect to $\log \log d$ given an base fullars of the foundations. We assume the structure will be able to talentic colaborations of up to \mathbb{R}^n , and differential scalences over a \mathbb{R}^n distance of up to \mathbb{R}^n .

The presental project is demotion represents our understanding of the proposal tome mation. This enforces is an integral part of our engineering review. If is imported but you cannot us if income almost from Sat described so that we can see how whicher also got in our recommendations our appropriate.

SITE CONDITIONS

Surface Observations

The site is located in the northwest quadrum of 117° Avenue and Highway 101 in Hassab. Township, Minnesota, The Corw River boolers the property on the could side and Highway 101. is the easiern property limit. The surface elevations at the horing locations ranged from about 74.4 to Boring #1 to 107.1 or Bering #8

Subsurface Soils/Geology

Logs of the resultanings are included in Appendix A. The logs contain information contenting soil (agening, soil classification, geologic discription, and most are. Relative decaying or consistency in also cover, which is based on the standard pointiation resistance (N-vehicle).

Based on our interpretation of the southbile borine information, it is our judgetout the generalized. தூர் நாரம் a consists of 1 - in 4" of ill undeer repsoil and admit by Altivial soils.

Trapsoil is present near the surtime at cash buring location, and surfacin I full soils were encountered at manufact the haring lucutions. When present, the full reposally over its the reposal layer. The fill and toposil consist primarily of ally saids, however, some can clays, anyty lean clays, and sands with silk the also present. Most of these soils were those in the rime of sampling, therefore, reliable N values were not obtained within these deposits.

Frome allowing soils are the productional modertying soil type. The course at his ion to take sand, sand with sile, and eithy sand. Besed on N-vettes, the course at his ion writes from very loose to dense. The course allowed soils couldn't varying amounts of gravet; cobbles and houders can also be present within course allowed soils.

Misser clinivial sandy lean clay and fluo allavial the alsy is present between the report and course allowing in the ray burings ledgest on the casted. Italf of the property peop the southern boundary. These clayey allowing sails are madium in consumency, based on New host.

the beging k gaussite indicate the substitute continuous artise surroad locations. Variations often cause between such beyond bosiness.

4

Water Level Measurements

The limelicies were probabled the discussion of ground water and water level measurements were taken. The increasements are reconded on the boring logs. A discussion of the witer level measurement methods is presented in the <u>SUBSURFACE EXPLUIDA FROM</u> section of this report.

Ground water looks were noted at three besing locational at depths varying them about 11' to 1935' below existing and prade. Measured water level devances range from elevation 63.6 to 65.5. The remaining seven beginns 6d not extend down to these playations. The water level numericanisms were taken within 5st (raining samely soils and should provide a religively good imbention of the ground water look at that time and location.

Ground water levels usually fluctuate. Procugations occur due to varying seasons, and yearly assemble will accommell; as well as when far for the

GEOTECHNICAL CONSIDERATIONS

The following georgethical considerations are the basia for the proportion of a presented Indein this report.

Review of Soil Properties

FBI/Topend

The existing fill and brysic? are judged to be low to moderate strength moretals, and they go judged to be perentially compressible under anticipated fill and minding loads. The objectly of these soils are monorate to fast craining and have low frost here potential. The exception would be the lost play soils which are slow diffining, in addition to the tenn clays are any saids which are of these moderately frost susceptible.

Course Alluvium

The coarse allowial scale are moderate to high strongth materials and are not paled to be significantly compressible moderatorispised fill and building loads. These spile are moderate to the draining. The coarse of twint soils classified as same or sand with sitt are judget to have low thost heave potential, provided they do not become wer. The sitry sands are at least moderately thost appropriate.

Fine Mixed Alloying

The fige allows and mixed a highlished flow to moderne arrenge) igarculate. Any time of mixed a highlight days acids which have on N-value of S bysion less are judged to be continuesable under increased fill and only ding coals. The sriffer allowish spits are not judged to be sign togathy appropriate the assumed militing loads. The fine and mixed at retirm are consistered slow during on one are judged to be at least moderately from susceptible. The far clays are the progent aboundage or swelling due to corresponding thanges in water correct.

PRELEMINARY RECOMMENDATIONS

The following recommendations about the considered profundacy in nature. Once building plans are further established (iousnion grades, such building loads determined), we recommend midificant site explanation and geotesimical ensigns be performed.

Building Gradine

Excavation

To propage the sets for spread facting imitering construction, we recommend the existing fell, topsoil, fat clays, and any soft team of any soft to excavated from the building areas. Generally, it will be necessary to excavate the softer dayon soils (N-value of 5 but or less) where those soils are within one footing width of the bottom of booting elevation and made will be raised. The

monimencial depths of excavation and the estimated elevation of the excavation bottoms are indicated in the following table:

Briting Maskar	Softo. Lieutius	Paracoloit. Degila	Escheipfed Eschiffog at - Beitoing St. Escheroffed
-	74.4	30.1	-60
<u>-</u>	77.5	77	75 <u>1/6</u>
.3.	· -	L1	400
_, ¬	102.5	2	100
<u> </u>	50.7	l'	H
D	85.8	T	871A
-	1.6.7	ā.	134+3
8	107.1	Į.	04
9	85.1	j +	42
:5	84.3	3	80

The samely soils exposed in the excessation bouter should be surface compacted wire several passes of a large vibratory collection to additional fill photometri. The elevations of the bottom of the action at the case and time the calculations are the bottom at the bottom bottom solidations may very it is recommended that a generomical engineer/technicies observe the final cases and prior to new fill or flooring observed. Furthermore, positions of the silty sand topsoil may not be significantly arganic. If this is the case, mese soils contents below building across fellowing so those compaction.

Where fill is blaced below the foundations, the exercision bottom should be oversized bottally from the objects burished edges of the foundations redistance equal to at least 11 for each vertical fixed of compared fill required beneath the foundation arithmic terrain (i.e., 1:1 oversize).

TIBiow.

Fall required to strain grade for fourings should be unafoundy comparted in thin bits to suniformly of 98% of the Spendard Proping maximum thy density (AS , M: (X98). Fill placed which supports the floor sixboundy (considered the 1:1 oversize some below 6) armyst can have a accused attribution comparison level of 98% of the Standard Phoetor density.

In should be possible to recedence of the on site non-organic soils as fill, excluding the for play soils, which should not be reased in sometimal or payabour areas. We continuously compaction of the on-site form day soils may be somewhat difficulties there sails are sensitive to proisonre and will likely compile moisture conditioning to attain the desired compaction level. This conditioning process can be time constraint, table intensive and wall coquire fuverable weather. In a also importable to consider the frust heavy potential for any area where caryey or silty fill is being used.

If of Jojim materials are sequeral, granular soils of non-contain less than 12% proving the #200 slove (so preferred. If the correspondence where over conditions exist at the time of site grading, it may be necessary to unitize a samer granular soils as fill. In well excavation areas, we recommend the initial few few of fill maissist placed he are clean granular soil which contains less than 3% passing the #300 sieve and less than 40% passing the #40 sieve.

In access where new (ill will be placed on sloping ground, we recommended bonching the surface prior in placing the fill. Renthing is consumended where allows are steeper than 4:1 (horizontal versical).

Spread Footing Foundations

The structures can be supported on conventional spread four-fations placed on the new composted [2] and competed usation spins. We reconnical perimeter foundations for herital building space for placed such that the bottom is a minimum of 42° below exterior grade. We reconstruct

formals, ions from the med building space (such as curvey), yanggo, on loading dock form darinns) be excended to a nonlinear of 50 " below parenter grade.

Data) on the conditions accountered, in is our opinion the building founds one can be designed base) on a maximum allowable so I hearing pressure of 3,900 pat. If it conjudgment this design prossure will have a factor of astery of at least 3 against localized sheat or pass failure. We judge that force semi-ments under those loadings should not exceed 1°. We also judge that differential subjuggers of conditions deposed by the harings should not exceed 16°.

Floor Slab

Preparation of the testining area as previously accommoded in the Building Grating Encedures section will also proporte the autiding area for theorism support. All fill supporting the Lour slab should be compared to a minimum of 95% of States in Proctor density. This includes utility and foundation usually brokefill.

For information regarding floor slab moisture vapor protection, we refer you to the attached standard sheet conit ed. These Slab Meisture Vapor Protection."

Wall Backful & Water Control

In coordinate line of loads exerted on helicongrade wells by the executive markful style, we confirment hackfilling with a fine dimining sand which has no more than 12% of the particles (by weight) passing the \$200 agent. We recommend the wall backful to comparted to at least 95% of the Standard Proctor magnitude may constitute. For more information on on protected said types, from one dominate lateral loads, digitalities, and water united, plosses for the attrement should entitled.

- Brisement/Retaining Wall Boost 3 and Water Courtof.
- Freezing Weather Effects on Building Construction

Exterior Rackfill & Site Dealinage

All soils placed below calcoint structural elements, such as sidewalks to 80006. Stocklibb compacted to a minimum of 95% of Standard Product Jensity. Boxalso middlestich of groudd where into the subgrade so is can result in frost heaving and subgrade weakbring, problems in both powement and sidewalks area, proper size drainage is important. The tavernous, subwalks, and unakcaped areas should be properly sloped and manufaciled to above surface water minoff away from the structure(s).

CONSTRUCTION CONSIDERATIONS

Potential Difficulties

Runnff Water in Excavation

Some of the next-surface soils at the site are moderately poor draining. Because of this, surface where the expected to "peach" above these soils thuring times of wester wealth. To allow preceivation of the excavation become, no reduce the potential for soil disturbance, and to facilities tilling operations, we recommend when he removed from within the excavations during construction. We authorize that any water can be satisfied with conventional sumply unping.

Districtionice of Soils

The meticial on-site soils can become disturbed under construction tradic, especially if the soils are wer. If soils become dispurred, they should be subout to the underlying undisturbed soils. The subout soils can then be duct son recompacted back into place, or they should be removed and replaced with drive augmented by k.

Unbbles and Buulders

(Marsona havin, swile), which are green at fits site, can include uphbles and buniders. This may make excavating procedures somewhat mose defiguir than normal if they are encountered. Also,

if subbles on bouldars sub-communical ar froming grade, in cosy be decassed to remove these oversized particles and coplact them with compared filling allow full feeding placement. Exacting till suds can size contain oversized ratteres.

Excavation Sidesloping/Retendon

If nonetrined, the excovation should maintain sides opes in accordance with DSHA, Regulations (Strontards 129,CFR). Part 1926, Surgard P. "Excovations" (see www.gspa.ggg). Hyou with the required OSHA sloping, ground water seepage our induce sidestape rayeting or morang which would require maintenance.

Observation and Testing

The purpose of this prediminary exploration program was to provide presimants recommendations. Additional borings are expanded prior to find design and construction.

The resonancedations in this coolst are based on the actional local conditions found in our testboring localisms. Since the soil conditions can be expected to vary away from the soil boring hereticus, we reconstruct on said coolstation by a geotechnical outlinear on technicism during communication or realisms these peternial changes. Soil density making should also be performed on new fill placed in order to document that project specifications for companion have been satisfied.

SUBSURFACE EXPLORATION

General

The structured exploration program consisted of recisal adam penergargoungs; because. The field work was performed on Moran 29 and 40, 2001.

Approximate so Thomag locations are shown on the attached akeigh (Figure 1). The begings were located in the hold by AFT becomes by taping from nearby site located. Surface elevations at

the boring locations were measured in the total by ATT personnel (sing an engineer's level. The boughtmark reference was the centerline (5.14)². Avenue at the west and (see Figure 1). This elevation was assumed to be 120.0.

Dadlling Methods

The standard ponetration less boddigs were drilled using 3 an diameter halforw-stord august.

Sampling Methods

Solid-Sprain Samples (SS).

Standard peneration (aptir-spond samples were to thered in accordance with ASTM:D1586. This incollect consists of driving a 2^n O.D. split-based sampler into the in situ 300 with a 140 pound hardoor cropped that a beight of 50^n . The samples is driven a bodi of 18^n and no soin. After an initial set of 6^n , the downer of hardons blows to drive the samples the fluid 12^n is known as the significant penetration resistance on N value.

Sampling Limits tions

Unless usually alterned in a sample, consers between suit layous are estimated massion the spacing of samples and the aution of delibing books. Cobbbes, buildings also other large objects generally conserve be accovered from test bodings. They may still be present in the ground even if they are not noted on the boring lays.

Classification Methods

Smill disself-estions shown on the boding logs are based on the Unified Soil classification (USC) system. The USC system is described in ASTM:D2487 and D2488. Where inhomotry classification tests (views analysis and Attenderg Limits) have been performed, classifications occurs M:D2487 are prescribe. Otherwise, soil classifications shown on the botting logs are visual-prescal judgments. We have attached shows (Appendix A) Blustisting the USC system. By descriptive terminology, and the symbols (and on the horizog logs.

The boring logs mature judgments of the genomic origin. This progress is primarily based an observation of the soil samples, which are be limited. Observations of the summending modernation, segment on, and development can sometimes aid this independs.

Water Level Measurements

The program water measurements are shown at the bettom of the boring logs. The following information appears male: "Water i evel Measurements" on the lags:

- Time and Time of meganicement
- Nammled Depth; Joveys capital sort ampliquation for the surround.
- Casing Death; depth is renormal making at bollow stem sugar at time of mass amount.
- Core (д. Depth.) (spring) which перы из дре 5005 to the Ministria.
- Writer Level: depth in the tenential whole Lee witer is enormalized.
- Thriffling 15mm Lawe's same as Water Level, except the the hypithin the imidable is drilling field.

The time incention of the water table in the horizing locations may be different than the water levels in the bouldrates. This is possible bookes there are several factors that can affect the water level measurements in the borehole. Some of these factors include: particularly of each asing or in profile, presence or perched water, among of time nerween water level readings, presence of digiting field, weather conditions, and use of borehole tasing.

Sample Storage

We wish retain appropriately samples of the soils recovered from the bodings for a period of 30 days. The samples with then be discarded unless you notify us observied.

LIMITATIONS

The data derived through this compling and observation program have been used to develop our opinions about the subsurface some times to gath site, according brossess to explorations program can broad to ally

when is in its subsurface, randitions between beings and beaution samples and at other nass, may differ from conditions dust libed in this equal. The exploration we conducted identified subsurface continues only at time posits where we track samples or characteristic particles are conditions. Depositing on the sampling methods and sampling frequency, every self-ager may not be observed, and to the in a crisis or layers which are present in the ground may not be noted up the boding args.

If conditions are automated their given struction did Louis and these indirings by your begings, it may be necessary to the coursements with a construction and the cost of construction may be aftered.

The extension duality of referencing about the substitutes concurrent is cirrectly related to the series. The exploration of the mode as off, therefore, that information confidences by means of additional exploration.

STANDARD OF CARE

Our services for your project have been conflicted to those standards considered natural types of the type at this time and location. Other than this, no warrarry, either express or implied, is intended.

SIGNATURES

Report Prepared by:

նյեցննդին, T.ey

Am Thainest

Report Reviewed (w)

Jeffery K., Vicyce, PE

Vice President, Gootesinical Division

MN Rep. No. 15928

FROM SEAR MOISTERY VALVOR PROTECTION

Figure and design of accepts present twenty projection should unusual, the ground instrument two closures, any major to present the project in the project of the following continuous contents of the projection of the projection

GRANDHAR LAYER

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In case, where potential static ward, levels or significant perched water sources appear can or some the floor slot, in content sometiment accounting to install whereing distribute systems places within a wholes clean and original layer. Such a space which is properly ingluenced depositing on subgrade and types and transfer or when the me

VAPOR MEMBRANE

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VATVOR MEMBRANE/CRANULAR I A VICE PLACE MICHAEL

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- Alpharetmi denor lite du nu aciliù gius process.
- Time of Necesing, which allows for quicker futishing.
- Voccinant Installation Light
- Marriage of bits rings on deformation caused by an expected bleeding period.
- Observing remodifier placets on drying statisticage.

no templitik på relegge die vappe, menjange over die gran fan byen militak die helawangs

- The regions emission are a patient insert
- Eliminate a constraint symmetry when the grant on law a share for management.
- Provides a "glip suppress, thereby nationing contradiction will be appreaded market analysis."

இத<u>்து அற்று ந</u>டித்த நடிக்கு பிற குறைகளை கூரி, பழுகளின் கொடியில் கழைகள் முறைகளில் மே. உடுகளின் கூறு புறியில் <u>குறைந்து தந்த</u>து (The respondence deadlibe placed மீல்களில் மடிகளில் பிறவிசில்).

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- Respects by a finer covering actualization's system warray.

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BASEMENERRI'ATYTYG WALL BACKFILL AYD WATER CONTROL.

MANACE.

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RACKFILLING

Prior to backfilling, tamp/when providing should be applied on terminent between water. The constiller attrible placed against previously will exert lateral manage. To make this hading by allowing for comange, we assume and esting free coming small for backfill. The same of said backfill study by allowing for a surface of said backfill study from the wall at least 2°, partition appears and curvand from the wall of 80° or greater angle from vertical. The same should arrow as measure from 12 % by wayon passing the #200 sizes, which would make #30° on (\$0°-\$M) with. The mad backfill should be placed in 10° on and companies with penaltic companies equipment. This committees and the equipment of the committees and placed shows. Where subspaces we are also use about, we recommend applies the sand backfill with layer or object the manifesters a face were inclination. Storilow's affine training cases from the building should see the minimals.

Byth in the with sitty or clayey south procedure by multiprofessor. These salls can build up sower obtaining cases from all operates and the row in we, wall continues and possible wour infill retirement it becomes. If you exert to place sity or playing solds as backed, we make one if you place a presidence of domage companies against the wall which is hydraptically consecuted to a drawing property in the backett metric, sligh parently clayer could be exhibited as included due to their swelling potential.

LATERAL PROSSERSS

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Equipment Mobil Tensity

Soll Type	Acries (pcf)	Ad-Stest (pcf)
South (SP or SE SM)	\$5	45
Saly Santa (SM)	40	80
Pine Germani Seña (SC, CLac SLA)	45	30

Basement was a second cultival suruned in the roy which records a convenient. In this case, the design base of prevention which he then as the first prevention. Research, walls which are free to make the filter should be designed using the policy case. I must be surth pressures with the deprint only higher than that shown it me base? The file are mobile, and become some and.

PREEZING WEATHER EXPRESS ON BUILDING CONSTRUCTION

CENERAL.

Queynos commos pareix quest d'acting and reila contain ware, aut à which are allineed to from will beave ann tow density. Upon mawing, libes seils will no regain beins cigins a morph not conserv. The externocheave and density armyte la value des une fait que and moisture condition. Heave is que motifs with higher pareix que of 5 to instructions. Upon all the container is supplied to the fright opillary disc pointful which container to less our First qualité soils generally heave about 1.00 for Mell but each for common peternation. This can make to prove of that first linear. This treatment than be significantly proved if content questions.

LITSECN CONSIDERATIONS

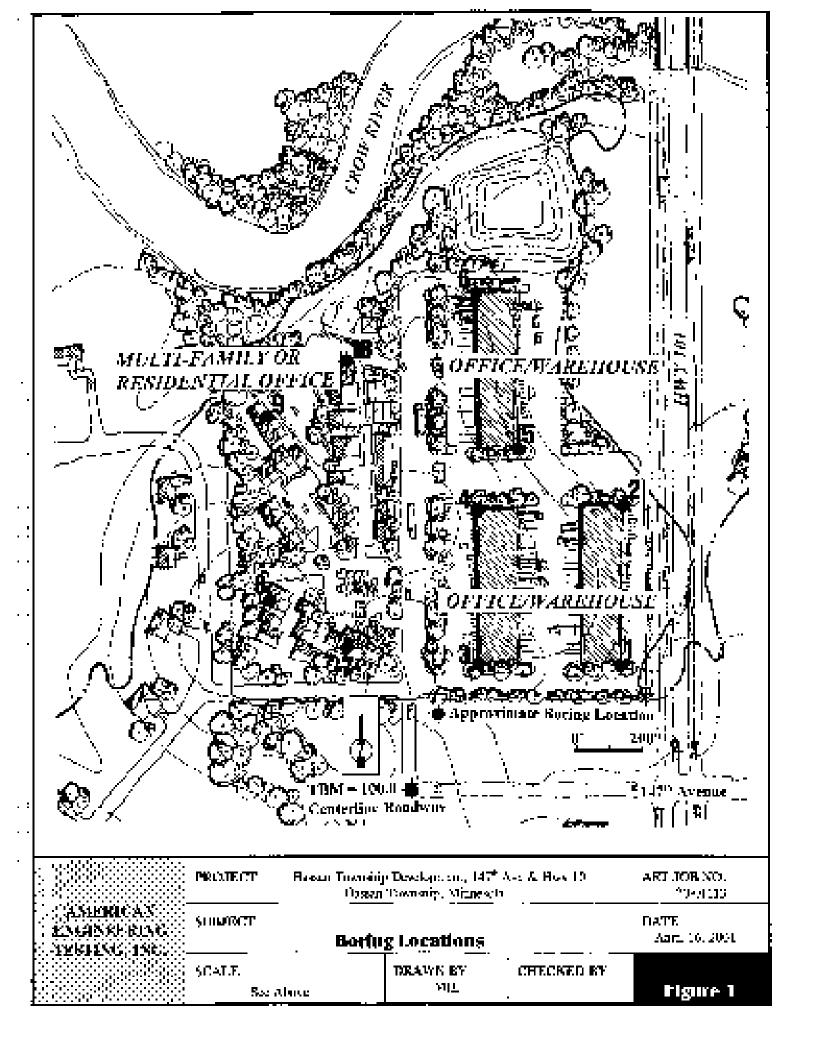
Clayer and sury sour our be used as perimeter backfull although the affect of mair productings and trest properties doublines are included as perimeter backfull although the affect of mair productions which upon it. It is need noted to be a made in a most foreign as a least although the surpression of the area foreign with void spaces below. With this deagn, movement may then occur was can for the majorith and the adjects on such a state below. With this deagn, movement may then occur was can for the majorith and the adjects on such a state. Note from states this surface that the surface is a fact that are the area for proving a \$20 serve can be used the analytical transmitters and the area to be a surface. They are in a surface that can the area of the surface and the results in the surface and a server and a server and a server and a surface that it is a surface to the surface of the contact for the plantage of the surface. We contain that my latter passed tear to surface on the case the potential for its plantage of the surface.

The provided effects of adfressing should be considered analysy or only soils are used as backfill. Adfressing occurs soon markfill adhered in renglican less infinitely will be allowed us in fraction middlesses. This recurred in Europe contact, with instance was less to remarke an primy nearest middless contacts and only backfill. The proportions also indicated where backfill sold are poorly compared and become samurated. The risk of althousing an age generated by practing a less friction so maining inversions the self-and backfill.

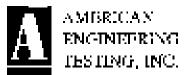
Anfrecting connection to obtain piece (such as time, factors other strike piec fections), even the enterior is provided. This is more likely in piece distings simplicial where with number somewell. Additional facing on his includes tension without feelings below the most rates (which includes tension relationsements made used to using the forest, beging assigns would require motion of continuous simplifications.

CONSIDER OF THE REPORT OF THE PROPERTY OF THE

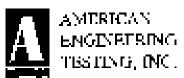
Residucions, ships and other improvements waith may be affected by cross movement should be instanted from most guaranteed during. Transing weather, of alling taken place in time freezing weather, all forces with, solve and for should be supposed from areas to be follow primitioned for presents. The most fill should not be a lower or messed in its frames placement of comments and countries and countries granting. It is not obly independent to perform with weather and from king-order to its ansity areas where produces a support program and produced and produced and the subgraducing of produced and process of course or messed. It is an expensive freezing or expenses and recommend the subgraducing there is from slab placement. The first areas of requires revocating and recomposition of the inswer weathers.



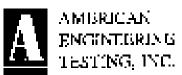
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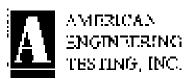


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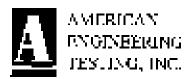


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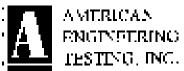
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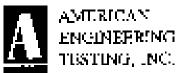


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BOTTO SASSAUTS FURNALINES SSUIL NATERIAL DESCRIPTION	GD HACA	T	AMPLE REE TYPE IX	## DEN 12 DE 5 200
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DORING LOG NOTES

_ nrn	LEUTSG AND SAMENING SYMBOLE,	CIST SYMBOLS						
اوسترة	Definition	Symbol	Definition					
LTN:	Size of Businjural many	ctass:	One dimensional consolidation us:					
ጋኤ:	LAX couble tybe core paper	ZEV.	Tay dunsity, pef					
AC:	As completion of boiling	DST:	Client ston last					
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CAR:	Pipersaving, romber in leads manual	HYD:	Hydrometer anziotz					
	itameter <u>—</u> ipojes .	L_ :	Lgrid L.it, 역					
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	blood for blocking name i	VSU: WC:	Vene stiern strength, undururked (field), auf					
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CLARMFICATION OF SCIUS FOR ENGINEERING FURFOSES ASTM Designation: D 2487

(Resection Unified Soil Classification System)

AMERICAN ENGINEERING TRATING, INC.

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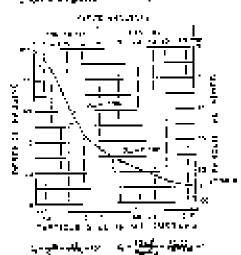
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GENERAL TERMINOLOGY NOTES FOR SOIL IDENTIFICATION AND DESCRIPTION

	GRAIN SIZE	ORAYLL PERCENTAGES			
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CONSISTRNOVIDE PEASING SIDES		RELATIVE DENSITY OF NON-PLASTIC SOILS			
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ATTORET HE SHIELDER FRONTERING (ACC Column)		LAYKRING NOTES Laykring Notes Laykring Notes Laykring Samurk of Layers			
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Waterbearing).	Free worst visible, interned to describe amountains of a. Soil france				
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