

**DETERMINATION OF LEVEL OF REVIEW
ENVIRONMENTAL REVIEW RECORD**

Project Name: Glidden Wastewater Treatment Facility Improvements

CDBG Contract Number: 20-WS-013

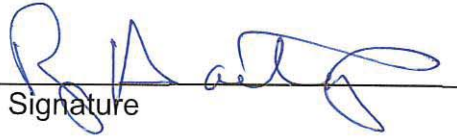
Project Location: Glidden, Iowa

Project Description (Attach additional descriptive information, as appropriate to the project, including narrative, maps, photographs, site plans, budgets and other information.): A new wastewater treatment facility is being proposed. It will be constructed adjacent to the existing facility, and will include a new aerated lagoon with SAGR and ultraviolet disinfection processes.

The subject project has been reviewed pursuant to HUD regulations 24 CFR Part 58 "Environmental Review Procedures for Entities Assuming HUD Environmental Responsibilities," and the following determination with respect to the project is made:

- Exempt** from NEPA review requirements per 24 CFR 58.34(a)()
- Categorically Excluded NOT Subject** to §58.5 authorities per 24 CFR 58.35(b)()
- Categorically Subject** to §58.5 authorities per 24 CFR 58.35(a)()
(A Statutory Checklist for the §58.5 authorities is attached.)
- An **Environmental Assessment** (EA) is required to be performed in accordance with subpart E of 24 CFR Part 58 is attached.
- An **Environmental Impact Statement** (EIS) is required to be performed.

The ERR (see §58.38) must contain all the environmental review documents, public notices and written determinations or environmental findings required by Part 58 as evidence of review, decision making and actions pertaining to a particular project. Include additional information including checklists, studies, analyses and documentation as appropriate.

Chief Elected Official:	
<u>Roger Hartwigsen</u> Print Name	 Signature
<u>Mayor</u> Title	<u>5/29/2020</u> Date



**U.S. Department of Housing
and Urban Development**
Great Plains Office – Region VII
400 State Avenue
Kansas City, Kansas 66101-2406

Environmental Assessment for HUD-funded Projects

[HUD recommended format per 24 CFR 58.40]

Project Name: **Glidden Wastewater Treatment Facility Improvements**

Responsible Entity: **City of Glidden**
[24 CFR 58.2(a)(7)]

Certifying Officer Name & Title: **Roger Hartwigsen, Mayor**
[24 CFR 58.2(a)(2)]

Environmental Review Record (ERR) File # **20-WS-013**

Environmental Assessment

Project Location: Glidden, Iowa

Estimated Total Project Cost (all sources): \$3,500,000

Amount of HUD Assistance: \$500,000 HUD Grant Program: CDBG

Grant Recipient (if different from Responsible Entity):

[24 CFR 58.2(a)(5)]

Recipient Address & Phone: 108 Idaho Street, P.O. Box 349, Glidden, IA 51443, 712-659-3010

RE Project Contact Name & Phone: Brooke Peterson, City Administrator, 712-659-3010

Conditions for Approval: (List all mitigation and project modification measures adopted by the responsible entity to eliminate or minimize adverse environmental impacts. These conditions must be included in project contracts and other relevant documents as requirements.) [24 CFR 58.40(d), 40 CFR 1505.2(c)]

FINDING: [58.40(g)]

- Finding of No Significant Impact (FONSI)**
(The project will not result in a significant impact on the quality of the human environment.)
- Finding of Significant Impact**
(The project may significantly affect the quality of the human environment.)

PREPARER SIGNATURE:  DATE: 5/28/20

PREPARER NAME & TITLE: Freddy Vasquez, Regional Planner

PREPARER'S AGENCY (If Different from RE): Region XII Council of Governments

RE APPROVING OFFICIAL SIGNATURE:  DATE: 5/29/2020

RE APPROVING OFFICIAL NAME & TITLE: Roger Hartwigsen, Mayor

Purpose of the Project: ["Statement of Purpose and Need for the Proposal" - 40 CFR 1508.9(b)]

The purpose of the project is to make improvements to the wastewater treatment facilities to enhance their reliability, increase capacity, to replace the obsolete system, and to enhance treatment capability specific to meet the new permit requirements.

Description of the Project: Include all contemplated actions that are logically either geographically or functionally a composite part of the project, regardless of the source of funding. [24 CFR 58.32, 40 CFR 1508.25] As appropriate, attach maps, site plans, renderings, photographs, budgets and other descriptive information.

The proposed project includes construction of a new aerated lagoon facility with SAGR and ultraviolet disinfection processes. The project will require a new lift station, force main, access road, and administration/blower building. The project will also involve reuse, abandonment, or demolition of the existing wastewater facility and various utility line re-routing.

Existing Conditions and Trends: Describe the existing conditions of the project area and its surroundings, and the trends likely to continue in the absence of the project. [24 CFR 58.40(a)]

The existing wastewater treatment facility was constructed in 1988 as an extended aeration activated sludge plant. At the time it was constructed, the population of the City was estimated to be 1,076 persons. Since then the City has grown and the physical condition of the facility has deteriorated. While the major concrete structures are in good condition, the process equipment in the activated sludge tanks, structural walkways, hand railing, and equipment in the head works building are in poor condition.

Part I: Statutory Checklist [24CFR §58.5]

DIRECTIONS – For each authority, check one of the appropriate boxes under “Status.”

“**A box**” The project is in compliance, either because: (1) the nature of the project does not implicate the authority under consideration, or (2) supporting information documents that project compliance has been achieved. In either case, information must be provided as to **WHY the authority is not implicated, or HOW compliance is met:** OR

“**B box**” The project requires an additional compliance step or action, including but not limited to consultation with or approval from an oversight agency, performance of a study or analysis, completion of remediation or mitigation measure, or obtaining of license or permit.

IMPORTANT: Compliance documentation consists of verifiable source documents and/or relevant base data. Appropriate documentation must be provided for each law or authority. Documents may be incorporated by reference into the ERR provided that each source document is identified and available for inspection by interested parties. Proprietary material and studies that are not otherwise generally available for public review shall be included in the ERR. Refer to HUD guidance for more information.

Statute, Authority, Executive Order Regulation or Policy cited at 24 CFR §58.5	STATUS		Compliance Documentation
	A	B	
1. Air Quality [Clean Air Act sections 176(c) & (d), and 40 CFR 6, 51, 93]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Project is NOT located in an EPA-designated non-attainment area or maintenance area for one or more of six "criteria pollutants", called National Ambient Air Quality Standards (NAAQS). Map documentation included in Appendix A and can be found at https://www3.epa.gov/airquality/greenbook/mapnmpoll.html
2. Airport Hazards (Clear Zones and Accident Potential Zones) [24 CFR 51D]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Project is not located within 2,500 feet of the end of a civil airport runway or 15,000 feet of the end of a military airfield runway. HUD policy is to promote compatible land uses in RCZ/CZ/APZ. Map from FAA NPIAS Report is located in Appendix B.
3. Coastal Zone Management [Coastal Zone Management Act sections 307(c) & (d)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No coastal zone management programs are in the states of HUD Region VII, per Nat'l Oceanic & Atmospheric Administration, Office of Ocean and Coastal Resource Management. (http://coastalmanagement.noaa.gov/mystate/welcome.html)
4. Contamination and Toxic Substances [24 CFR 58.5(i)(2)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Project location will not be affected by any contaminated or Toxic substances. A field inspection, land use search, and review of environmental compliance were conducted. All sites in proximity were in compliance. The IDNR contaminated sites database and the IDNR storage tank database were both searched. No sites or tanks were discovered to be in the proximity of the project location. There are six regulated underground storage tanks; two have been assigned a high-risk designation. Both tanks are not located within the project area. Documentation can be found in Appendix C.
5. Endangered Species [50 CFR 402]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Project will not affect any Federally listed endangered or threatened species or its habitat because the project location does not have habitat suitable for the listed species. A species list was requested and can be found in Appendix D.
6. Environmental Justice [Executive Order 12898]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Project site or neighborhood does not suffer from adverse health or environmental effects that disproportionately affect a minority or low-income population relative to the community at large. Project will assist low to moderate-income persons for a better quality of life. See census statistics in the Appendix E or here: https://www.epa.gov/ejscreen
7. Explosive and Flammable Operations [24 CFR 51C]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The project is a wastewater improvements project; therefore, this policy does not apply to this activity and is exempt from review under this regulation.

8. Farmland Protection [7 CFR 658]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Significant farmland will be impacted as determined by a Farmland Conversion Rating form conducted by the IDNR, but no lesser scoring alternative appears feasible. The farmland classification map can be found in Appendix F.
9. Floodplain Management [24 CFR 55, Executive Order 11988]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	According to the Iowa DNR Water Resources Section, this project will not impact the 100-year floodplain. Floodplain map can be found in Appendix G.
10. Historic Preservation [36 CFR 800]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The Iowa DNR consulted with the Iowa State Historic Preservation Office, and the DNR determined this project will not result in historic properties being affected. A finding of no significant impact was determined. SHPO documentation can be found in Appendix H.
11. Noise Control [24 CFR 51B]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	This project is exempt from noise considerations since it is a water/sewer project. Noise assessment guidelines of the Iowa CDBG Management Guide can be found in Appendix I.
12. Water Quality (Sole Source Aquifers) [40 CFR 149]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The project is not located within an EPA-designated sole source aquifer area. Map can be found in Appendix J.
13. Wetland Protection [24 CFR 55, Executive Order 11990]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	As noted in the IDNR environmental assessment, the U.S. Army Corps of Engineers concurs that the project will not impact wetlands. Map can be found in Appendix K.
14. Wild and Scenic Rivers [36 CFR 297]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The project is not located within one (1) mile of a designated Wild & Scenic River. Documentation can be found in Appendix L.

Part II: Environmental Assessment Checklist

[Environmental Review Guide HUD CPD-782, 24 CFR 58.40; 40 CFR 1508.8 & 1508.27]

For each impact category, evaluate the significance of the effects of the proposal on the character, features and resources of the project area. Enter relevant base data and credible, verifiable source documentation to support the finding. Note names, dates of contact, telephone numbers and page references. Then enter the appropriate determination of impact: None Anticipated, Potentially Adverse or Potentially Beneficial. Attach additional material as appropriate. Note conditions or mitigation measures required.

Impact Categories	Anticipated or Potential Impact • Adverse • Beneficial • No Impact	Source Documentation and Mitigation or Modification Required
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Land Development

Conformance with Comprehensive and Neighborhood Plans	No Impact	The project will have no impact on Glidden community plans. No mitigation is required. Veenstra and Kimm Facility Plan.
Land Use Compatibility and Conformance with Zoning	No Impact	The project will not significantly affect the pattern and type of land use or growth and population as noted in the IDNR environmental assessment. The Carroll County zoning designation for the project area is AG and exempt. No mitigation is required. Documentation can be found in the IDNR EA.
Urban Design - Visual Quality and Scale	No Impact	The project will not have a significant visual impact of the city. The proposed facility will be located adjacent to the existing facility, therefore in an agricultural based area. The force main will run beneath ground level, therefore having no visual impact as well. No mitigation is required. Documentation can be found in the Veenstra and Kimm Facility Plan.
Slope	No Impact	The project will not have an impact on the slope. No mitigation required. U.S.G.S map can be found in the Appendix.

Erosion	No Impact	Care will be taken to maintain dirt to avoid erosion and runoff as specified in the IDNR EA. No mitigation is required. Documentation can be found in the Appendix and in the Veenstra and Kimm Facility Plan.
Soil Suitability	No Impact	The project will have no impact on soil suitability. No mitigation is required. Soli map can be found in the Appendix.
Hazards and Nuisances, including Site Safety	No Impact	The project will not have an impact on hazards and nuisances. No mitigation is required. Documentation can be found in the Veenstra & Kimm Facility Plan.
Noise - Effects of Ambient Noise on Project & Contribution to Community Noise Levels	No Impact	The project will not have an impact on noise after the project has been completed. Noise levels may be above normal as construction is underway, but this should only be a temporary problem, as noise quality will be handled by limited hours of contractor work time during the day as noted in the IDNR EA. No long-term impacts are anticipated, and the impact of noise on residential areas is anticipated to be minimal. No mitigation is required.
Air Quality - Effects of Ambient Air Quality on Project & Contribution to Community Pollution Levels	No Impact	Temporary air quality degradation may occur due to dust and fumes from construction equipment. The applicant shall take reasonable precautions to prevent discharge of visible emissions of fugitive dusts beyond the lot line of the property during the proposed project as noted in the IDNR EA. No mitigation is required.
Energy Conservation	No Impact	Fuels, materials, and various forms of energy will be utilized during construction, but this is an irreversible and irretrievable commitment to resources as noted in the IDNR EA. No mitigation is required.

Socioeconomic Factors

Demographic Character Changes	No Impact	The project will not impact the demographics of Glidden, nor will it impact the character of such demographics. No mitigation is required. Veenstra & Kimm Facility Plan & IDNR EA.
Displacement	No Impact	The project will not displace population nor will it alter the character of existing residential areas as noted in the IDNR EA. No mitigation is required.
Employment and Income Patterns	No Impact	The project will have no impact on employment and income patterns. No mitigation is required. Veenstra & Kimm Facility Plan.

Community Facilities and Services

Educational Facilities	No Impact	The project will have no impact on the educational facilities in Glidden. No mitigation is required. Veenstra & Kimm Facility Plan.
Commercial Facilities	No Impact	The project will have no impact on commercial facilities within Glidden. The project will be on the outskirts of town and partially constructed outside of city limits with no commercial facilities within proximity of the project. No mitigation is required. Veenstra & Kimm Facility Plan.
Health Care	No Impact	There will be no impact on health care facilities because there are no health care facilities located in Glidden. No mitigation is required. Veenstra & Kimm Facility Plan.
Social Services	No Impact	The project will have no impact on the social services in Glidden. No mitigation is required. Veenstra & Kimm Facility Plan.
Solid Waste	No Impact	The project will have no impact on solid waste services/facilities in Glidden. Solid wastes resulting from the construction project will be regularly cleared away with substantial efforts made to minimize inconvenience to area residents according to the IDNR EA. No mitigation is required. Veenstra & Kimm Facility Plan & IDNR EA.

Waste Water	Beneficial	The proposed improvements will allow the upgraded facilities to comply with the new requirements set in the NPDES permit. The system will treat the new limits set by the IDNR. The facility will therefore reduce the amount of discharge of the pollutants as noted in the IDNR EA. No mitigation is required. Veenstra & Kimm Facility Plan & IDNR EA.
Storm Water	No Impact	The project will have no impact to the storm water facilities in Glidden. No mitigation is required. Veenstra & Kimm Facility Plan.
Water Supply	No Impact	The project will have no impact on the water supply of Glidden. No mitigation is required. Veenstra & Kimm Facility Plan.
Public Safety • Police	No Impact	The project will have no impact on police services. Glidden does not operate a local police department. No mitigation is required. Veenstra & Kimm Facility Plan & City of Glidden.
• Fire	No Impact	The project will have no impact on the fire services and facilities in Glidden. No Mitigation is required. Veenstra & Kimm Facility Plan.
• Emergency Medical	No Impact	The project will have no impact on the emergency medical services. No mitigation is required. Veenstra & Kimm Facility Plan & IDNR EA.
Open Space and Recreation • Open Space	No Impact	The project will have no impact on the open space in Glidden. No mitigation is required. Veenstra & Kimm Facility Plan.
• Recreation	No Impact	The project will have no impact on recreation facilities in Glidden. No mitigation is required. Veenstra & Kimm Facility Plan.
• Cultural Facilities	No Impact	The project will have no impact on cultural facilities in Glidden. No mitigation is required. Veenstra & Kimm Facility Plan.
Transportation	No Impact	Traffic patterns may be interrupted, but it is not certain as the IDNR EA states. Traffic control methods will be used if patterns are to be interrupted. No mitigation is required. IDNR EA & Veenstra & Kimm Facility Plan.

Natural Features

Water Resources	Beneficial	The project will reduce the discharge amounts into the Willow Creek. This will have a positive effect on the A2 stream that the treated effluent will be discharged in. No mitigation is required. Veenstra & Kimm Facility Plan & IDNR EA.
Surface Water	No Impact	The project will have no adverse impacts to the surface water or groundwater quality or quantity according to the IDNR EA. No mitigation is required. IDNR EA & Veenstra & Kimm Facility Plan.
Unique Natural Features and Agricultural Lands	No Impact	The project will have no impact on unique natural features. The new wastewater facility will be located on what is now land for agriculture, and will be located adjacent to the existing facility. No mitigation is required. Veenstra & Kimm Facility Plan.
Vegetation and Wildlife	No Impact	The project will have no impact on vegetation and wildlife. No mitigation is required. IDNR EA & Endangered Species List.

Part III: Other Requirements [24 CFR §58.6]

Complete the following table or attach a separate §58.6 Checklist.

§58.6 Requirements	Compliance Status (Y/N)	Source Documentation
Flood Disaster Protection Act [Flood Insurance] [§58.6(a)]	Yes	According to the Iowa DNR Water Resources Section, this project will not affect the 100-year floodplain. IDNR EA & Floodplain Map in Appendix.
Coastal Barrier Resources Act/Coastal Barrier Improvement Act [§58.6(c)]	YES	No Coastal Barrier Resource Areas in MO/KS/NE/IA. http://coastalmanagement.noaa.gov/mystate/welcome.html
Airport Runway Clear Zone Disclosure & Notification [§58.6(d)]	Yes	The project is not in the proximity of an airport runway. Airport map can be found in Appendix A.

Summary of Findings and Conclusions

Project Alternatives Considered [24 CFR 58.40(e), Ref. 40 CFR 1508.9] (As appropriate, identify other reasonable courses of action that were considered and not selected, such as other sites, design modifications, or other uses of the subject site. Describe the benefits and adverse impacts to the human environment of each alternative and the reasons for rejecting it. Include consideration of the No Action Alternative, that is, not implementing the preferred alternative).

In accordance to the facility plan, three alternatives were explored within the plan.

Alternative 1: Lemna Enhanced Aerated Lagoon Facility at Existing Site: Under this alternative, the existing activated sludge treatment facility would be abandoned and a new enhanced aerated lagoon system using the LEMNA system would be constructed east of the existing facility. A new lift station would be constructed at the existing plant site and a force main would be constructed to convey flow to the new treatment facility. Two aerated lagoon cells would be constructed with insulated covers and baffles to create four compartments in each cell. Aeration and mixing would be provided in varying levels in each compartment.
Cost for Alternative 1: \$3,536,800

Alternative 2: SAGR Enhanced Aerated Lagoon at New Site: Under this alternative, a new SAGR enhanced aerated lagoon facility would be constructed at a new site easterly of the existing wastewater treatment facility. The existing wastewater treatment facility would be abandoned. Under this alternative, a lift station would be constructed near the existing wastewater treatment facility. A force main would be constructed to convey the flow to the new facility. Two new aerated lagoon cells would be constructed at the new site, followed by a smaller settling cell.
Cost for Alternative 2: \$3,600,000

Alternative 3: Activated Sludge at Existing Site: Under this alternative, the existing activated sludge system would be renovated with new equipment to replace the aged and corroded Aero-Mod equipment. The replacement equipment would be of corrosion resistant materials. The wet weather flow equalization basin would continue to be used. A new flow splitting arrangement with a new flow meter would be constructed to accurately measure incoming plant flows and to divert high wet weather flows to the equalization basin. The head works building and equipment would be constructed to replace deteriorated equipment and to comply with current building codes regarding electrical equipment in classified areas such as preliminary treatment. Building modifications would be made to isolate spaces that are considered explosion classified areas and that contain corrosive gases. An additional sludge storage tank would be added to provide the storage volume required by Iowa DNR.
Cost of Alternative 3: \$3,040,000

No Alternative: To comply with new and more stringent NPDES discharge limits the existing system requires additional treatment steps, thus the no-action alternative was not discussed any further.

The evaluation of the viable alternatives indicates the least viable alternative is Alternative 2. The primary factor in the determination that Alternative 2 is the least viable of the three viable alternatives is its capital cost and present worth cost. This alternative is more costly to construct and more costly to operate than the LEMNA lagoon based alternative. However, the initial cost of all three alternatives is within a 10% range, which is considered equivalent from a cost-effective comparison perspective.

Alternative 1 and Alternative 2 are considered similar from a cost perspective. Alternative 1 is less expensive, but within 10% of the cost of Alternative 2.

Alternative 3 has a lower initial cost, but involves continued use of existing concrete tankage, which is almost 30 years old and is not expected to be usable after the next 20-year design period. Almost all of the investment in Alternative 3 will be lost at the end of the 20-year design life of the improvements.

Based on a comparison of the advantages and disadvantages of the viable alternatives, Alternative 2 was determined to be the preferred alternative by the City. This alternative is competitive with Alternative 1 and Alternative 3 and provides significant advantages to the City by providing a new facility with longer life than an upgrade or renovation to the existing treatment plant.

Mitigation and Project Modification Measures Recommended

[24 CFR 58.40(d), 40 CFR 1508.20]

(Recommend feasible ways in which the proposal or its external factors should be modified in order to minimize adverse environmental impacts and restore or enhance environmental quality.)

Federal, state, and local agencies were asked to comment on the proposed project as well as tribes, and no adverse comments were received from any agencies or the general public. No adverse environmental impacts were identified for the project.

Additional Studies Performed

(List the reports, studies or analyses performed for this assessment, and attach studies or summaries.)

Facility Plan completed by Veenstra & Kimm Inc., and IDNR Environmental Assessment.

List of Agencies and Persons Consulted [40 CFR 1508.9(b)]

(List agencies and persons consulted for this assessment.)

IDNR

Iowa DNR Conservation and Recreation Division

Iowa DNR Water Resources Section

Iowa SRF

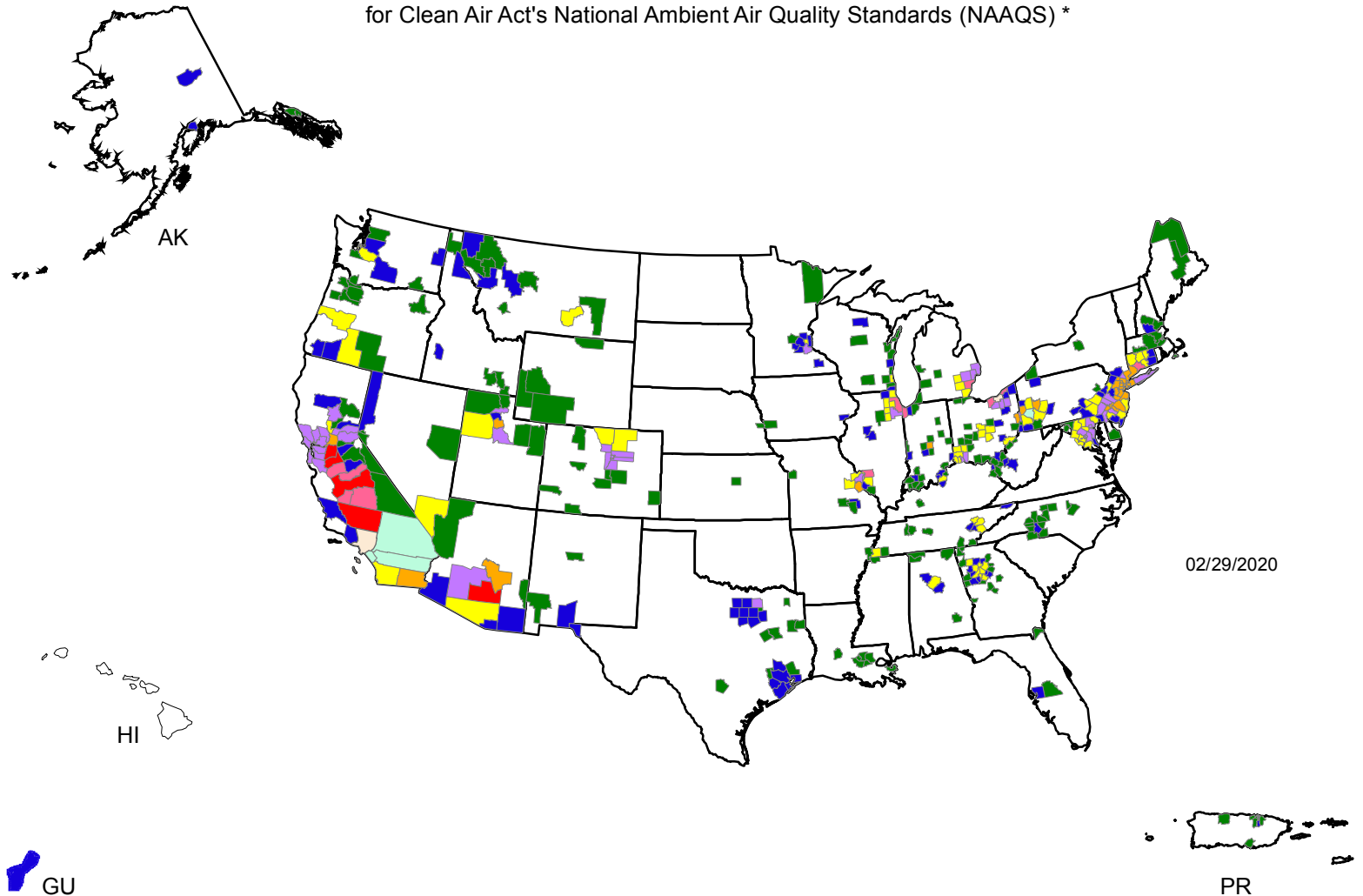
Iowa SHPO

City of Glidden

Appendix A
EPA Non-Attainment Areas

Counties Designated "Nonattainment" or "Maintenance"

for Clean Air Act's National Ambient Air Quality Standards (NAAQS) *



Legend **

- County Designated Nonattainment or Maintenance for 9 NAAQS Pollutants
- County Designated Nonattainment or Maintenance for 8 NAAQS Pollutants
- County Designated Nonattainment or Maintenance for 7 NAAQS Pollutants
- County Designated Nonattainment or Maintenance for 6 NAAQS Pollutants
- County Designated Nonattainment or Maintenance for 5 NAAQS Pollutants
- County Designated Nonattainment or Maintenance for 4 NAAQS Pollutants
- County Designated Nonattainment or Maintenance for 3 NAAQS Pollutants
- County Designated Nonattainment or Maintenance for 2 NAAQS Pollutants
- County Designated Nonattainment or Maintenance for 1 NAAQS Pollutants

* The National Ambient Air Quality Standards (NAAQS) are health standards for Carbon Monoxide, Lead (1978 and 2008), Nitrogen Dioxide, 8-hour Ozone (2008), Particulate Matter (PM-10 and PM-2.5 (1997, 2006 and 2012), and Sulfur Dioxide.(1971 and 2010)

** Included in the counts are counties designated for NAAQS and revised NAAQS pollutants. Revoked 1-hour (1979) and 8-hour Ozone (1997) are excluded. Partial counties, those with part of the county designated nonattainment and part attainment, are shown as full counties on the map.

Appendix B
FAA NPIAS Report

Appendix C
Contamination and Toxic Substances



Iowa Department of Natural Resources and Public Safety State Fire Marshal Office Storage Tanks

Leading Iowans in caring for our natural resources

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[Advanced](#) search UST Registration Number ▼ for [Go](#)

Advanced Search

UST
 LUST
 AST
 UST 3rd Party Inspections
 UST Certifications

Leak Number:
 Leak Risk Classification:
 Site Name:
 Site Address:
 Site City:
 County:
 Site Status:

[Search](#)

Export Results

Leak No.	Leak Classification	Registration No.	Name	Address
8LTT28	High Risk	197910061	FORMER MOBIL STATION	JCT HWY 30 & 286 Glidden, IA 51443-
7LTX41	High Risk	198601661	GLIDDEN COUNTRY STORE	126 E 9TH ST Glidden, IA 51443

DISCLAIMER: The information on this website represents data provided to the DNR from outside entities. Although believed to be generally reliable, its accuracy cannot be guaranteed. No warranty, expressed or implied, is provided for the data herein, or its use. The Tanks database does not display nor contain all the records submitted for a site. Additional information may be obtained from the DNR Records Center at 515-725-8480 or DNR.Records@dnr.iowa.gov.

The Above Ground Storage Tank (AST) information on this website is no longer maintained. The DNR does not regulate ASTs. For additional information on ASTs, please contact the State Fire Marshal office at (515)-725-6145.



Iowa Department of Natural Resources and Public Safety State Fire Marshal Office

Storage Tanks

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Advanced search Leak Number for Go

Leak #: 8LTT28 Registration #: 197910061 Name: FORMER MOBIL STATION
Address: JCT HWY 30 & 286 City: Glidden Zip: 51443- FO: 4

LUST Location Affiliates Initial Release Cost Admin Contract 28e Certification UST Site GWP Tracking Summary Initial
Tracking Tier 1 Tier 2 Tier 3 Free Product Bedrock Classification SMR Remediation CA/Tier 3 Documents

Classification

Priority Ranking:

Very High

Risk Classification

Date: 01/24/2008

No Action

Low Risk

High Risk

None

Corrective Actions

Release Not Verified:

No Action Required Free Product:

No Action Required - Not Eligible for NFA Certificate:

Sent to Contaminated Sites:

Sent to EPA:

EPA Case Num:

Cleanup Start Date:

Cleanup Complete Date:

Institutional Controls

Institutional Control Obtained:

Date:

Type:

LUST Current:

4.1.5.5973

State of Iowa Home
webmaster@dnr.iowa.gov

DNR Home Site Policy
© Iowa Department of Natural Resources



Iowa Department of Natural Resources and Public Safety State Fire Marshal Office

Storage Tanks

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[Advanced search](#) Leak Number for [Go](#)

Leak #: 7LTX41 **Registration #: 198601661** **Name: GLIDDEN COUNTRY STORE**
Address: 126 E 9TH ST **City: Glidden** **Zip: 51443 FO: 4**

LUST **Location** **Affiliates** **Initial Release** **Cost Admin** **Contract** **28e** **Certification** **UST Site** **GWP** **Tracking Summary** **Initial**
Tracking **Tier 1** **Tier 2** **Tier 3** **Free Product** **Bedrock** **Classification** **SMR** **Remediation** **CA/Tier 3** **Documents**

- Classification

Priority Ranking:

Risk Classification

Date:

- No Action
- Low Risk
- High Risk
- None

Corrective Actions

Release Not Verified:

No Action Required Free Product:

No Action Required - Not Eligible for NFA Certificate:

Sent to Contaminated Sites:

Sent to EPA:

EPA Case Num:

Cleanup Start Date:

Cleanup Complete Date:

LUST Current:

Institutional Controls

Institutional Control Obtained:

Date:

Type:

CONTAMINATED SITES

Site Search

Sites may be searched by entering text in one text boxes at the base of the columns (name, address, city or program). Other search criteria may also be entered the general text box including county, zip code, project manager, alternative name, or ownership type.

The system will start sorting as a search is initiated in the general text search box; pressing an enter or return key isn't necessary. The best results are obtained by using the column text boxes in combination with the general text box to narrow the search list.

Copy CSV Print

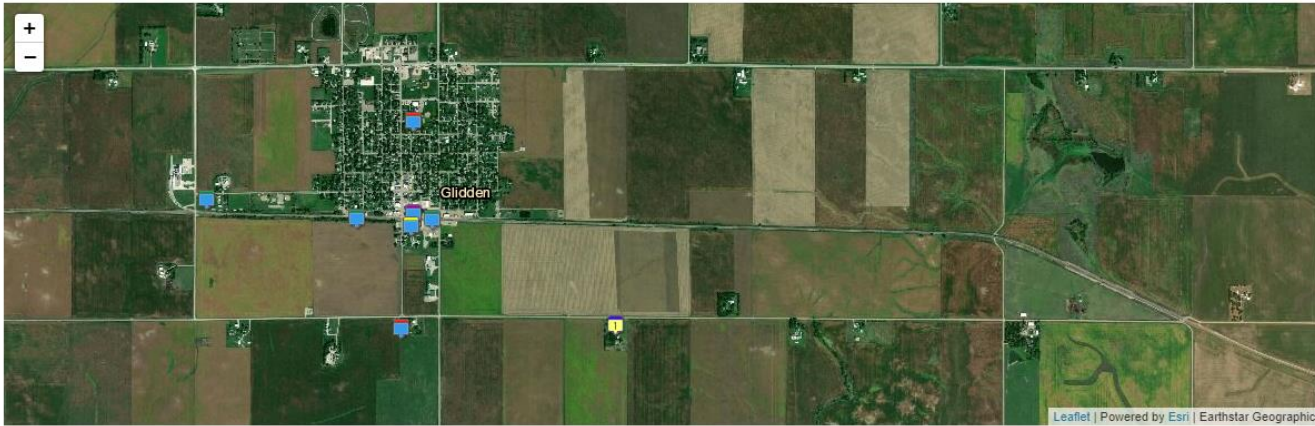
Show entries

Search:

ID	Name	Address	City	Program
No matching records found				
	<input type="text" value="Search"/>	<input type="text" value="Search"/>	<input type="text" value="Glidden"/>	<input type="text" value="-- (All) --"/>

Showing 0 to 0 of 0 entries (filtered from 2,334 total entries)

Previous Next



[Customize Columns](#)
[Download Data](#)
[Quick CSV Download](#)
[Results Guide](#)
[Reports Legend](#)

Facility Name	Mapped	Street Address	City	State	FRS ID	Reports	Inspections (5 years)	Significant Violations	Quarters with Noncompliance (3 years)	Formal Enforcement Actions (5 years)
COMMUNITY OIL CO - GLIDDEN		101 ARIZONA ST	GLIDDEN	IA	110040826489		0	No	0	0
GLIDDEN WATER SUPPLY		108 IDAHO STREET	GLIDDEN	IA	110013114959		0	No	1	0
GLIDDEN WWTP		E 1ST ST & UTAH ST	GLIDDEN	IA	110010035915		1	No	12	0
GLIDDEN-RALSTON C S D		602 IDAHO	GLIDDEN	IA	110011409190		0	No	0	0
IOWA CORN PROCESSORS		20481 SYCAMORE STREET	GLIDDEN	IA	110001387996		0	No	0	0
NEW COOPERATIVE INC - GLIDDEN		102 NEVADA ST	GLIDDEN	IA	110022400800		0	No	0	0
NORTHERN NATURAL GAS - GLIDDEN TBS		28840 210TH ST	GLIDDEN	IA	110070594426		0	No	0	0
SCHON LUMBER		127 WEST 1ST STREET	GLIDDEN	IA	110001761736		0	No	0	0

Current Search —

8 Facilities Found

Selected Criteria

Search Type: All Data
 City, State, and/or ZIP Code: Glidden, Iowa ✕
 Active/Operating: Yes ✕

Explore Enforcement and Compliance Criteria

- 1 Facilities with Current Violations
- 0 Facilities with Significant Violations
- 2 Facilities with Violations (3 years)
- 0 Facilities with Formal Enforcement Actions (5 years)
- 2 Facilities with Informal Enforcement Actions (5 years)

[Modify Search](#)

Filter Facilities —

Not Filtering on 8 Facilities

Only Show Matches

Facility Characteristics

- Facility Type
- 0 Major 8 Minor
- Facility Permit/ID
- 1 Has Water Permit (ICIS-NPDES) 4 Has ICIS-Air ID
 - 3 Has RCRA ID 0 Has TRI Releases

Enforcement and Compliance Characteristics

- 2 Facilities with Violations (1 or more quarters within the past 3 years)
- Facilities with Formal Enforcement Actions (5 yrs)
- 0 Yes 8 No
- Facilities with Informal Enforcement Actions (5 yrs)
- 2 Yes 6 No

Appendix D
Endangered Species List



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Illinois-Iowa Ecological Services Field Office
Illinois & Iowa Ecological Services Field Office
1511 47th Ave
Moline, IL 61265-7022
Phone: (309) 757-5800 Fax: (309) 757-5807

In Reply Refer To:

May 21, 2020

Consultation Code: 03E18000-2020-SLI-1708

Event Code: 03E18000-2020-E-04063

Project Name: City of Glidden WWTF Improvements

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The attached species list identifies any federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat if present within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation.

Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-federal representative) must consult with the Service if they determine their project "may affect" listed species or critical habitat.

Under 50 CFR 402.12(e) (the regulations that implement Section 7 of the Endangered Species Act) the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally. You may verify the list by visiting the ECOS-IPaC website <http://ecos.fws.gov/ipac/> at regular intervals during project planning and implementation and completing the same process you used to receive the attached list. As an alternative, you may contact this Ecological Services Field Office for updates.

Please use the species list provided and visit the U.S. Fish and Wildlife Service's Region 3 Section 7 Technical Assistance website at - <http://www.fws.gov/midwest/endangered/section7/s7process/index.html>. This website contains step-by-step instructions which will help you

determine if your project will have an adverse effect on listed species and will help lead you through the Section 7 process.

For all wind energy projects, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

Although no longer protected under the Endangered Species Act, be aware that bald eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.) and Migratory Bird Treaty Act (16 U.S.C. 703 et seq), as are golden eagles. Projects affecting these species may require measures to avoid harming eagles or may require a permit. If your project is near an eagle nest or winter roost area, see our Eagle Permits website at <http://www.fws.gov/midwest/midwestbird/EaglePermits/index.html> to help you determine if you can avoid impacting eagles or if a permit may be necessary.

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
 - USFWS National Wildlife Refuges and Fish Hatcheries
 - Wetlands
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Illinois-Iowa Ecological Services Field Office

Illinois & Iowa Ecological Services Field Office

1511 47th Ave

Moline, IL 61265-7022

(309) 757-5800

Project Summary

Consultation Code: 03E18000-2020-SLI-1708

Event Code: 03E18000-2020-E-04063

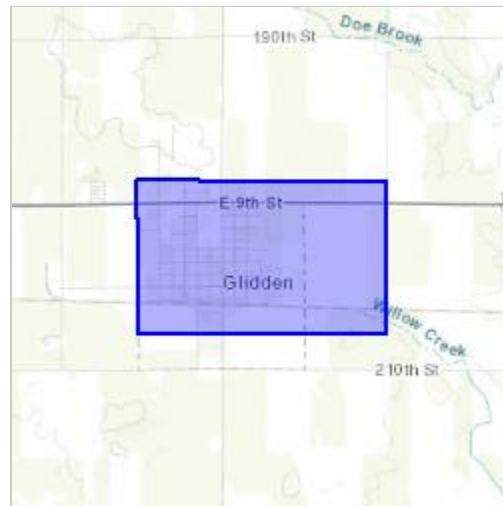
Project Name: City of Glidden WWTF Improvements

Project Type: WASTEWATER FACILITY

Project Description: The City of Glidden is planning to upgrade their wastewater treatment facilities.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/42.05929792421462N94.7212994098447W>



Counties: Carroll, IA

Endangered Species Act Species

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Fishes

NAME	STATUS
Topeka Shiner <i>Notropis topeka</i> (=tristis) Population: Wherever found, except where listed as an experimental population There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/4122	Endangered

Flowering Plants

NAME	STATUS
Prairie Bush-clover <i>Lespedeza leptostachya</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4458	Threatened
Western Prairie Fringed Orchid <i>Platanthera praeclara</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1669	Threatened

Critical habitats

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

NAME	STATUS
Topeka Shiner <i>Notropis topeka</i> (=tristis) https://ecos.fws.gov/ecp/species/4122#crithab	Final

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) 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 OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Wetlands

Impacts to [NWI wetlands](#) 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.S. Army Corps of Engineers District](#).

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.

FRESHWATER EMERGENT WETLAND

- [PEM1Cx](#)

FRESHWATER POND

- [PUBFx](#)
- [PUBKx](#)

RIVERINE

- [R4SBC](#)
-

Environmental: The project area is currently an agricultural field and existing wastewater treatment plant. According to the Iowa DNR Conservation and Recreation Division, the proposed project will not interfere with any State-owned parks, recreational areas or open spaces. The U.S. Army Corps of Engineers concurs that the project will not impact wetlands. The project will not impact any wild and scenic rivers as none exist within the State of Iowa. The U.S. Fish & Wildlife Service Section 7 Technical Assistance website consultation determined, and Iowa DNR Conservation and Recreation Division agree, that the project will not impact threatened or endangered species or their habitats. However, if any State- or Federally-listed threatened or endangered species or communities are found during the planning or construction phases, additional studies and/or mitigation may be required. According to the Iowa DNR Water Resources Section, this project will not impact the 100-year floodplain. No adverse impacts are expected to result from this project, such as those to surface water quantity, or groundwater quality or quantity.

Land Use and Trends: The project will not displace population nor will it alter the character of existing residential areas. An analysis of the conversion of the significant farmland impacted is currently underway; while significant farmland will be impacted as determined by a Farmland Conversion Rating Form, no lesser scoring alternative appears feasible. This project should not impact population trends as the presence or absence of existing water/sewer infrastructure is unlikely to induce significant alterations in the population growth or distribution given the myriad of factors that influence development in this region. Similarly, this project is unlikely to induce significant alterations in the pattern and type of land use.

Irreversible and Irrecoverable Commitment of Resources: Fuels, materials, and various forms of energy will be utilized during construction.

POSITIVE ENVIRONMENTAL EFFECTS TO BE REALIZED FROM THE PROPOSED PROJECT

Positive environmental effects will be improved treatment of the wastewater from the City of Glidden, compliance with effluent discharge permit limits, reduced discharge of the pollutants to the receiving stream, and improved water quality in the receiving stream.

SUMMARY OF REASONS FOR CONCLUDING NO SIGNIFICANT IMPACT

- The project will not significantly affect the pattern and type of land use (industrial, commercial, agricultural, recreational, residential) or growth and distribution of population.
- The project will not conflict with local, regional or State land use plans or policies.
- The project will not impact wetlands.

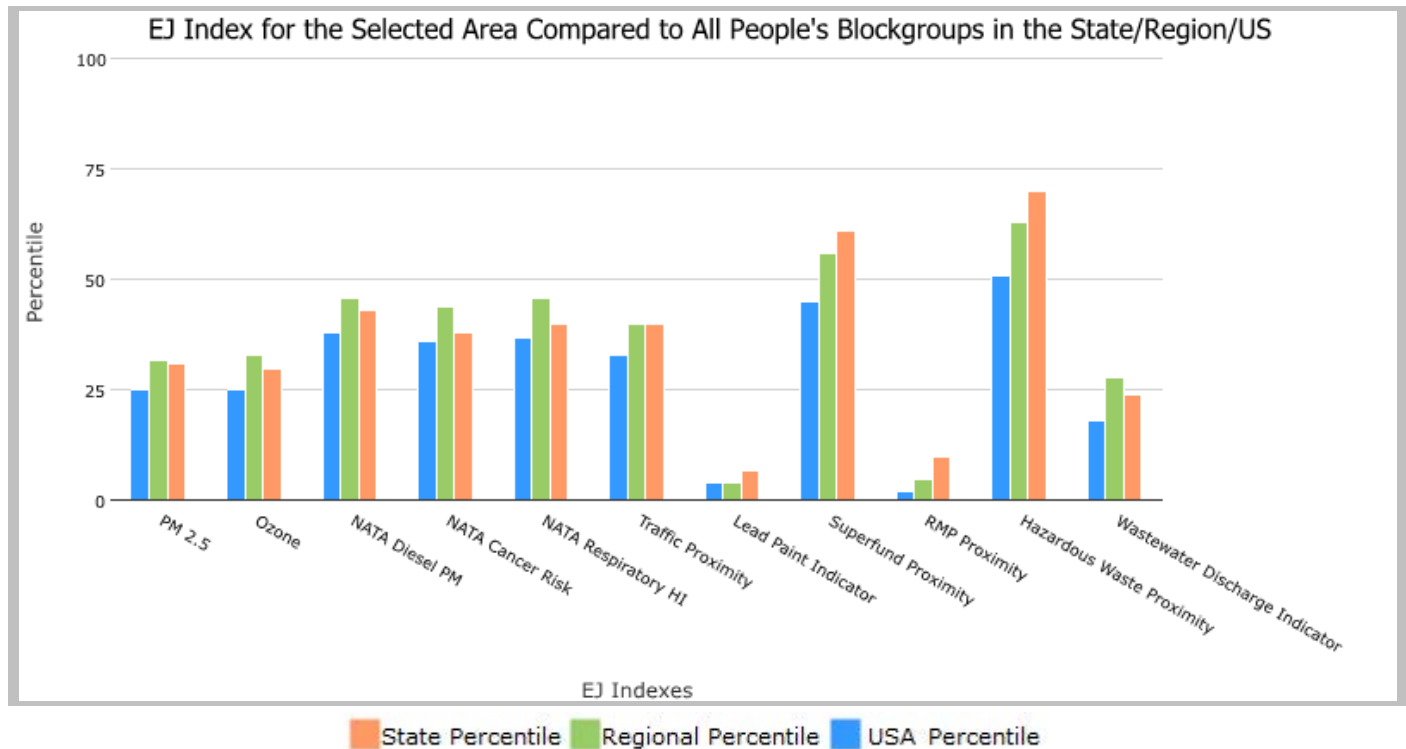
Appendix E
Environmental Justice Report

1 miles Ring Centered at 42.056370,-94.725960, IOWA, EPA Region 7

Approximate Population: 1,351

Input Area (sq. miles): 3.14

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	31	32	25
EJ Index for Ozone	30	33	25
EJ Index for NATA* Diesel PM	43	46	38
EJ Index for NATA* Air Toxics Cancer Risk	38	44	36
EJ Index for NATA* Respiratory Hazard Index	40	46	37
EJ Index for Traffic Proximity and Volume	40	40	33
EJ Index for Lead Paint Indicator	7	4	4
EJ Index for Superfund Proximity	61	56	45
EJ Index for RMP Proximity	10	5	2
EJ Index for Hazardous Waste Proximity	70	63	51
EJ Index for Wastewater Discharge Indicator	24	28	18

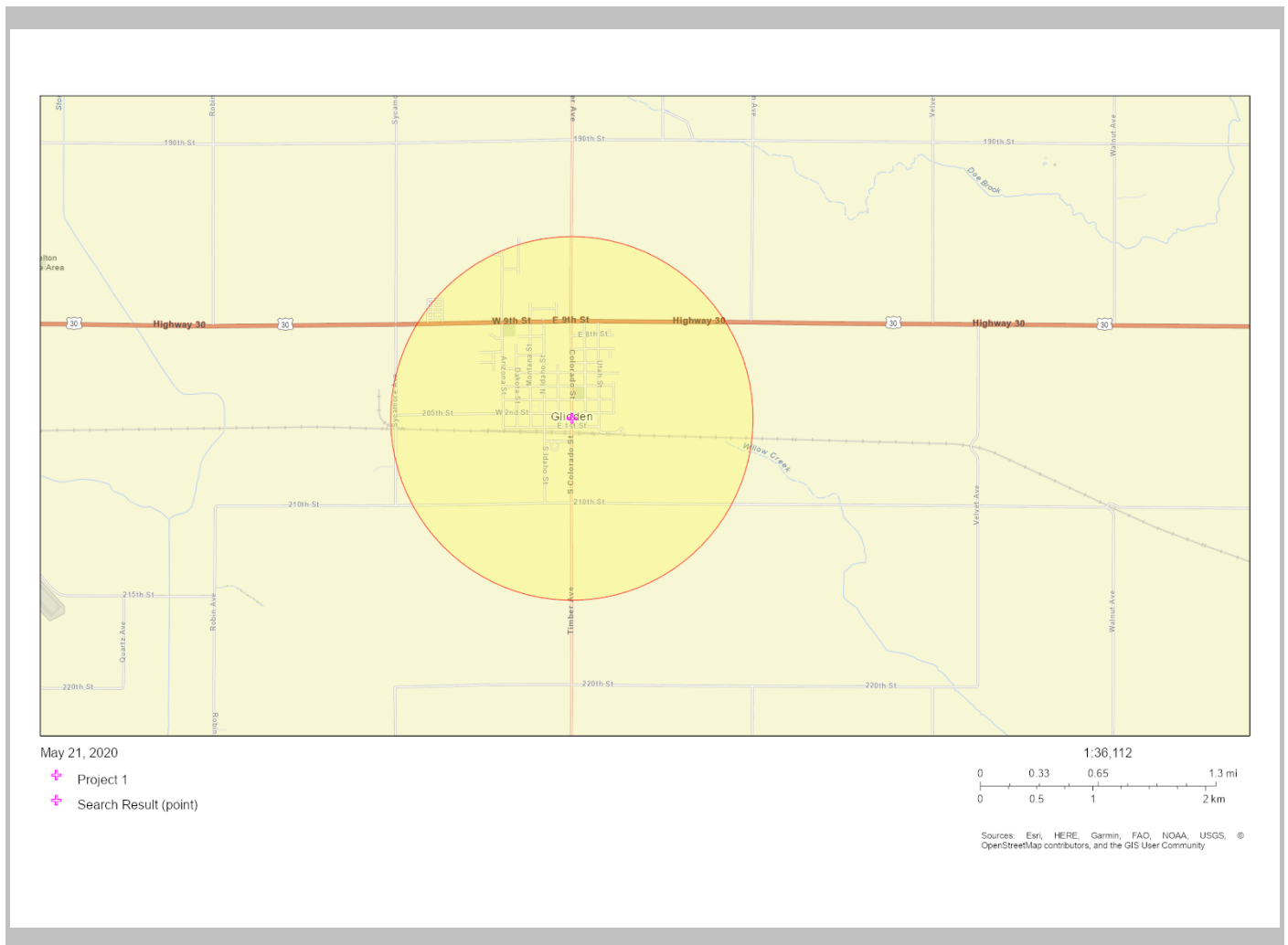


This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

1 miles Ring Centered at 42.056370,-94.725960, IOWA, EPA Region 7

Approximate Population: 1,351

Input Area (sq. miles): 3.14



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

EJSCREEN Report (Version 2019)



1 miles Ring Centered at 42.056370,-94.725960, IOWA, EPA Region 7

Approximate Population: 1,351

Input Area (sq. miles): 3.14

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in $\mu\text{g}/\text{m}^3$)	7.34	7.71	20	7.77	22	8.3	23
Ozone (ppb)	39.8	40.3	33	42.5	9	43	27
NATA* Diesel PM ($\mu\text{g}/\text{m}^3$)	0.159	0.266	22	0.367	<50th	0.479	<50th
NATA* Cancer Risk (lifetime risk per million)	17	22	8	27	<50th	32	<50th
NATA* Respiratory Hazard Index	0.22	0.28	11	0.36	<50th	0.44	<50th
Traffic Proximity and Volume (daily traffic count/distance to road)	60	260	41	330	37	750	27
Lead Paint Indicator (% Pre-1960 Housing)	0.58	0.42	70	0.34	77	0.28	81
Superfund Proximity (site count/km distance)	0.013	0.11	8	0.1	11	0.13	8
RMP Proximity (facility count/km distance)	1.9	1.2	80	0.94	85	0.74	90
Hazardous Waste Proximity (facility count/km distance)	0.027	0.49	2	0.8	6	4	2
Wastewater Discharge Indicator (toxicity-weighted concentration/m distance)	0.0014	0.54	72	0.97	63	14	68
Demographic Indicators							
Demographic Index	12%	21%	24	26%	19	36%	11
Minority Population	6%	13%	38	19%	28	39%	13
Low Income Population	18%	29%	27	32%	26	33%	28
Linguistically Isolated Population	0%	2%	65	2%	66	4%	45
Population With Less Than High School Education	5%	8%	40	10%	35	13%	29
Population Under 5 years of age	7%	6%	59	6%	58	6%	60
Population over 64 years of age	12%	16%	30	15%	35	15%	42

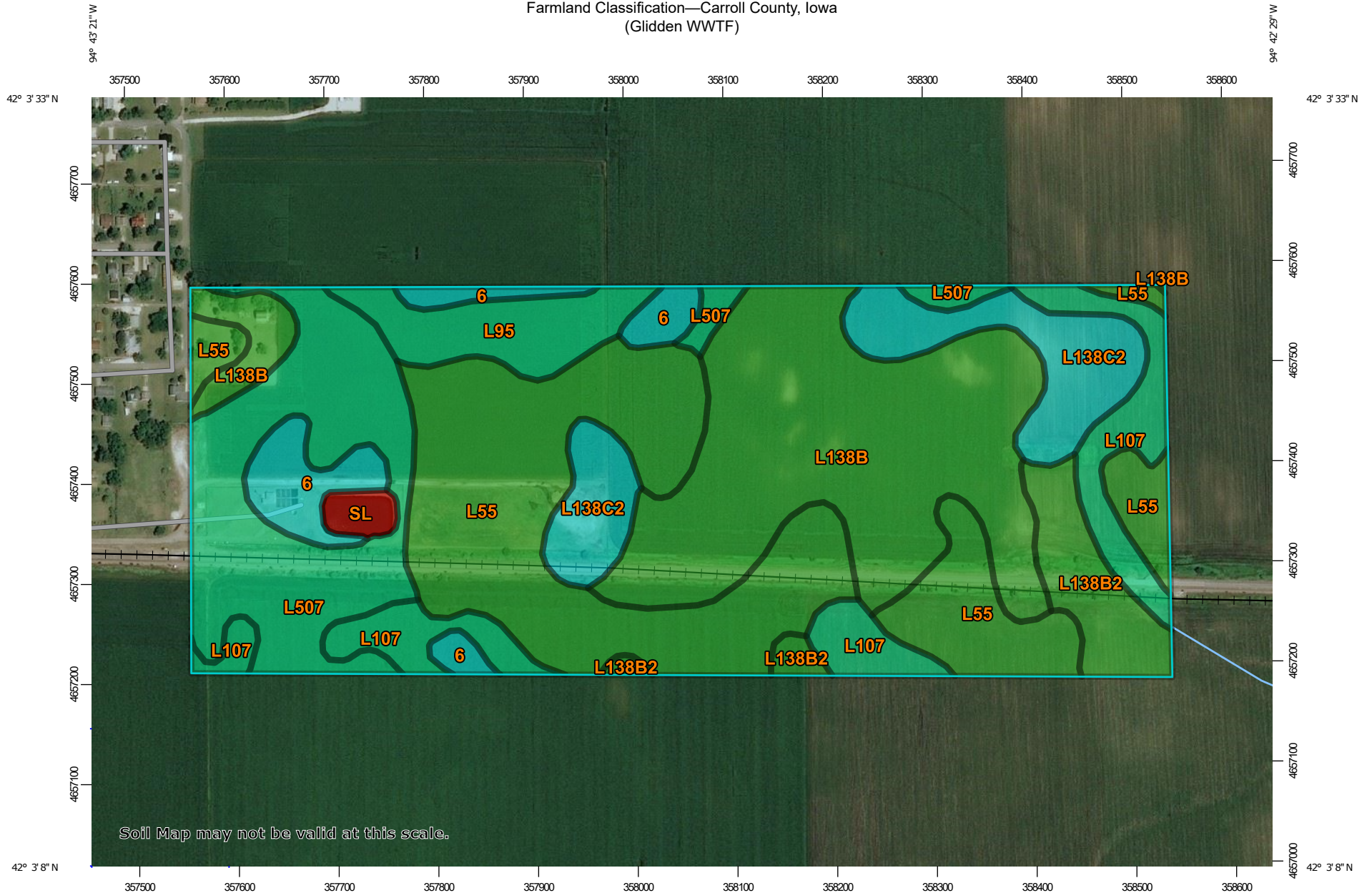
* The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: <https://www.epa.gov/national-air-toxics-assessment>.

For additional information, see: www.epa.gov/environmentaljustice

EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

Appendix F
Farmland Classification

Farmland Classification—Carroll County, Iowa
(Glidden WWTF)



Soil Map may not be valid at this scale.

Map Scale: 1:5,410 if printed on A landscape (11" x 8.5") sheet.

0 50 100 200 300 Meters

0 250 500 1000 1500 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84



Natural Resources
Conservation Service


Web Soil Survey
National Cooperative Soil Survey

5/21/2020
Page 1 of 5

Farmland Classification—Carroll County, Iowa
(Glidden WWTF)









MAP LEGEND








Area of Interest (AOI)






 Area of Interest (AOI)








Soils



Soil Rating Polygons

-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained
-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season









-  Prime farmland if subsoiled, completely removing the root inhibiting soil layer
-  Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
-  Prime farmland if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance
-  Farmland of statewide importance, if drained
-  Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if irrigated

-  Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if irrigated and drained
-  Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer
-  Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60






















-  Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
-  Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
-  Farmland of statewide importance, if warm enough
-  Farmland of statewide importance, if thawed
-  Farmland of local importance
-  Farmland of local importance, if irrigated

-  Farmland of unique importance
-  Not rated or not available

Soil Rating Lines

-  Not prime farmland
-  All areas are prime farmland
-  Prime farmland if drained
-  Prime farmland if protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated and drained
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season

Farmland Classification—Carroll County, Iowa
(Glidden WWTF)

<ul style="list-style-type: none">  Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season  Farmland of statewide importance, if irrigated and drained  Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season  Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer  Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60 	<ul style="list-style-type: none">  Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium  Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season  Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season  Farmland of statewide importance, if warm enough  Farmland of statewide importance, if thawed  Farmland of local importance  Farmland of local importance, if irrigated 	<ul style="list-style-type: none">  Farmland of unique importance  Not rated or not available <p>Water Features</p> <ul style="list-style-type: none">  Streams and Canals <p>Transportation</p> <ul style="list-style-type: none">  Rails  Interstate Highways  US Routes  Major Roads  Local Roads <p>Background</p> <ul style="list-style-type: none">  Aerial Photography 	<p>The soil surveys that comprise your AOI were mapped at 1:15,800.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>Warning: Soil Map may not be valid at this scale.</p> <p>Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.</p> </div> <p>Please rely on the bar scale on each map sheet for map measurements.</p> <p>Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)</p> <p>Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.</p> <p>This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.</p> <p>Soil Survey Area: Carroll County, Iowa Survey Area Data: Version 24, Sep 13, 2019</p> <p>Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.</p> <p>Date(s) aerial images were photographed: Apr 30, 2012—Sep 21, 2017</p> <p>The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.</p>
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Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
6	Okoboji silty clay loam, 0 to 1 percent slopes	Farmland of statewide importance	4.5	4.7%
L55	Nicollet loam, 1 to 3 percent slopes	All areas are prime farmland	26.7	28.2%
L95	Harp clay loam, Bemis moraine, 0 to 2 percent slopes	Prime farmland if drained	4.3	4.5%
L107	Webster clay loam, Bemis moraine, 0 to 2 percent slopes	Prime farmland if drained	7.9	8.4%
L138B	Clarion loam, Bemis moraine, 2 to 6 percent slopes	All areas are prime farmland	23.8	25.2%
L138B2	Clarion loam, Bemis moraine, 2 to 6 percent slopes, moderately eroded	All areas are prime farmland	4.4	4.7%
L138C2	Clarion loam, Bemis moraine, 6 to 10 percent slopes, moderately eroded	Farmland of statewide importance	8.1	8.6%
L507	Canisteo clay loam, Bemis moraine, 0 to 2 percent slopes	Prime farmland if drained	14.0	14.8%
SL	Sewage lagoon	Not prime farmland	0.8	0.8%
Totals for Area of Interest			94.5	100.0%

Description

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

Rating Options

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower

**GLIDDEN WASTEWATER TREATMENT FACILITY
CARROLL COUNTY, IOWA
FARMLAND CONVERSION IMPACT RATING EVALUATION
August 20, 2019**

The proposed project includes construction of a new aerated lagoon facility with SAGR and ultraviolet disinfection processes. The project will require a new lift station, forcemain, access road, and administration/blower building. The project will also involve reuse, abandonment, or demolition of the existing wastewater facility and various utility line re-routing. As part of this project, approximately 22.9 acres of farmland will be converted in the Glidden Quadrangle, Section 29, Township 84 N, Range 33 W.

As a result, a Farmland Conversion Impact Rating is required in accordance with Title 7 CFR 658. Part V of the form was completed by the local office of the Natural Resource Conservation Service (NRCS) and received a score of 88. Part VI, was completed by the Iowa Department of Natural Resources (IDNR) and received a score of 76. The total rating score is 164.

Title 7 CFR 658.4(c)(2) states "*Sites receiving scores totaling 160 or more be given increasingly higher levels of consideration for protection.*" And Title 7 CFR 658.4(c)(4) states "*When making decisions on proposed actions for sites receiving scores totaling 160 or more, agency personnel consider:*

- (i) *Use of land that is not farmland or use of existing structures;*
- (ii) *Alternative sites, locations and designs that would serve the proposed purpose but convert either fewer acres of farmland or other farmland that has a lower relative value;*
- (iii) *Special siting requirements of the proposed project and the extent to which an alternative site fails to satisfy the special siting requirements as well as the originally selected site."*

Consideration to each point was given with the following evaluation.

- (i) *Use of land that is not farmland or use of existing structures;*

The Glidden wastewater treatment facility (WWTF) is located in Carroll County. Carroll County has an approximate land area of 364,232 acres. According to the 2017 US Census of Agriculture, approximately 348,944 (94.8%) acres of the total land area is farmland. The remaining 4.2% of the land area is either urbanized or non-cultivated.

Approximately 22.9 acres of agricultural land will be converted for the construction of the new WWTF. Site selection for the proposed WWTF is limited by existing wastewater infrastructure. The existing wastewater treatment lagoon facility is located within the boundaries of the Glidden city limits; the new wastewater facility, while adjacent, extends approximately 0.5 miles east of the Glidden city limits. The applicant is proposing to make use of existing wastewater treatment facility and expand from it to immediately adjacent land. Cultivated agricultural land surrounds the wastewater treatment lagoon facility.

- (ii) *Alternative sites, locations and designs that would serve the proposed purpose but convert either fewer acres of farmland or other farmland that has a lower relative value;*

Siting restrictions for the proposed WWTF have been described above. The 22.9 acre lot immediately east of the lagoon facility is the smallest parcel of agricultural land in the immediate vicinity that is sufficient for the needs of the project.

From soil survey data of Carroll County, Iowa, the proposed WWTF site is surrounded by Prime and Important Farmland with low to moderate slope. No alternative sites with lower farmland ratings have been identified.

The size of the proposed WWTF is based on expected flows and loading as well as existing standards. It is already minimally-sized. One alternative would be to construct a new wastewater treatment facility in a different location. However, this most likely would require converting more farmland than the project currently proposes. The applicant has no desire to convert more farmland than is needed for the project.

- (iii) *Special siting requirements of the proposed project and the extent to which an alternative site fails to satisfy the special siting requirements as well as the originally selected site."*

Special siting requirements for the construction of wastewater infrastructure generally include avoiding extreme slopes (greater than 14 percent) and erodible stream sides. There is a very small portion of the area within one mile of the site that has the characteristics of the special siting requirements or is not considered Prime or Important Farmland based on soil type; this portion is the existing 0.8 acre wastewater lagoon. Therefore, selection of an alternate farmed site within the one mile area of the proposed site would have resulted in a similar rating score.

Other factors considered in the evaluation of this site included:

- Eighty-three percent (301,644) of the entire land in this County is utilized for harvested cropland, primarily corn and soybeans. The total area being removed from farmland production is approximately 22.9 acres. This is less than one hundredth of a percent of the area in the County utilized for harvested cropland. Removing this area from production should not have a significant impact on the production of corn in the area, nor should it have any significant impact on the agricultural industry in the area.
- This project will not attract future development within the immediate area.

U.S. Department of Agriculture

FARMLAND CONVERSION IMPACT RATING

PART I (To be completed by Federal Agency)	Date Of Land Evaluation Request 7/15/19
---	--

Name Of Project Glidden Wastewater Treatment Expansion	Federal Agency Involved DNR/SRF/EPA
---	--

Proposed Land Use Additional Treatment facilities	County And State Carroll County, Iowa
--	--

PART II (To be completed by NRCS)	Date Request Received By NRCS 7/16/2019
--	--

Does the site contain prime, unique, statewide or local important farmland? <i>(If no, the FPPA does not apply -- do not complete additional parts of this form).</i>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Acres Irrigated 496	Average Farm Size 325
--	---	-------------------------------	---------------------------------

Major Crop(s) Corn & Soybean	Farmable Land In Govt. Jurisdiction Acres: 352930 % 97	Amount Of Farmland As Defined in FPPA Acres: 218781 % 60
--	---	---

Name Of Land Evaluation System Used	Name Of Local Site Assessment System	Date Land Evaluation Returned By NRCS 7/16/2019
-------------------------------------	--------------------------------------	---

PART III (To be completed by Federal Agency)	Alternative Site Rating			
	Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	22.9			
B. Total Acres To Be Converted Indirectly	0.0			
C. Total Acres In Site	22.9	0.0	0.0	0.0

PART IV (To be completed by NRCS) Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	20.8			
B. Total Acres Statewide And Local Important Farmland	2.1			
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted	0.01			
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value	31			

PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value Of Farmland To Be Converted (Scale of 0 to 100 Points)	88	0	0	0
---	----	---	---	---

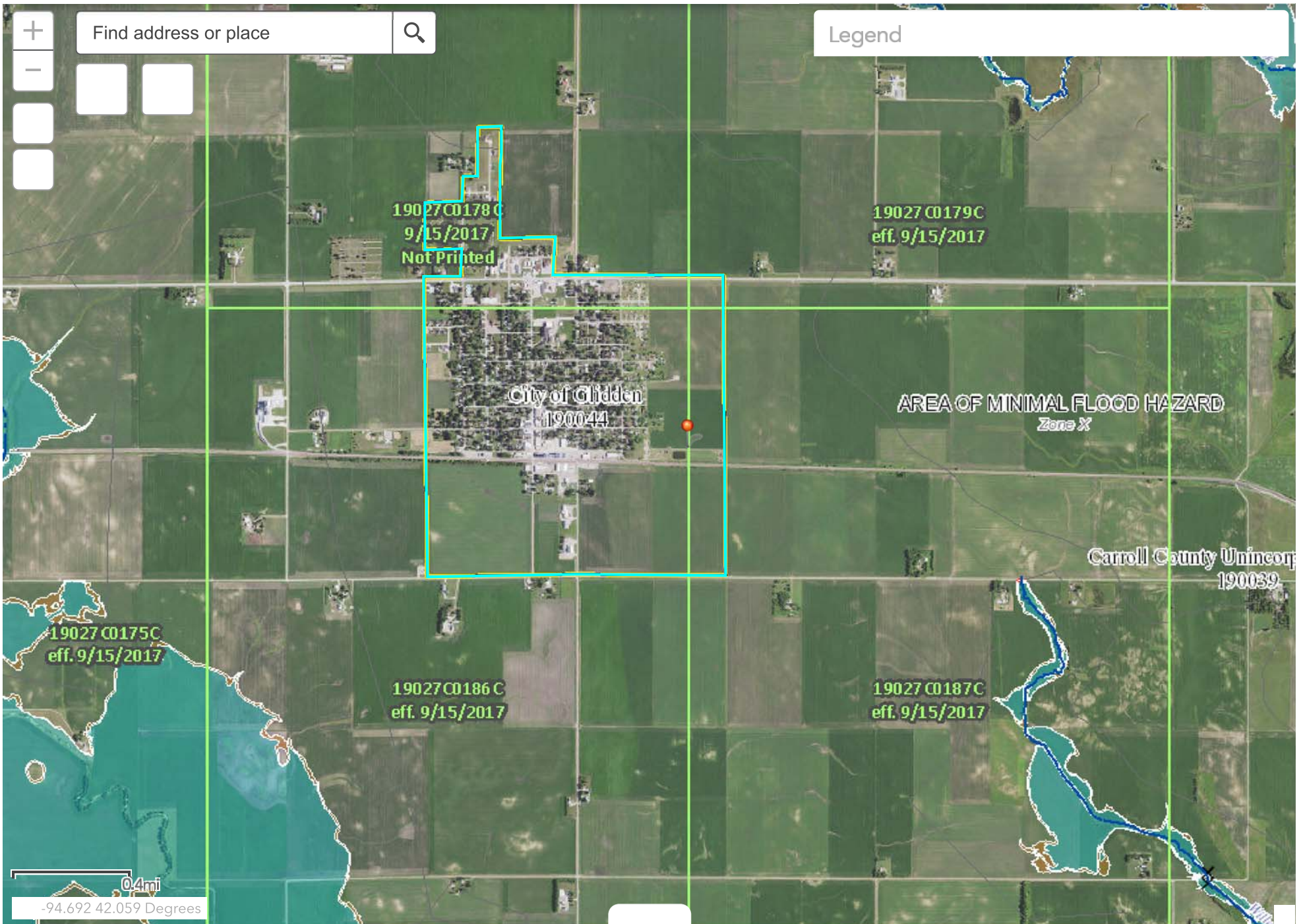
PART VI (To be completed by Federal Agency) Site Assessment Criteria (These criteria are explained in 7 CFR 658.5(b))	Maximum Points				
1. Area In Nonurban Use	15	14			
2. Perimeter In Nonurban Use	10	10			
3. Percent Of Site Being Farmed	20	20			
4. Protection Provided By State And Local Government	20	20			
5. Distance From Urban Builtup Area	15	5			
6. Distance To Urban Support Services	15	0			
7. Size Of Present Farm Unit Compared To Average	10	0			
8. Creation Of Nonfarmable Farmland	10	0			
9. Availability Of Farm Support Services	5	5			
10. On-Farm Investments	20	2			
11. Effects Of Conversion On Farm Support Services	10	0			
12. Compatibility With Existing Agricultural Use	10	0			
TOTAL SITE ASSESSMENT POINTS	160	76	0	0	0

PART VII (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)	100	88	0	0	0
Total Site Assessment (From Part VI above or a local site assessment)	160	76	0	0	0
TOTAL POINTS (Total of above 2 lines)	260	164	0	0	0

Site Selected:	Date Of Selection	Was A Local Site Assessment Used? Yes <input type="checkbox"/> No <input type="checkbox"/>
----------------	-------------------	---

Reason For Selection:

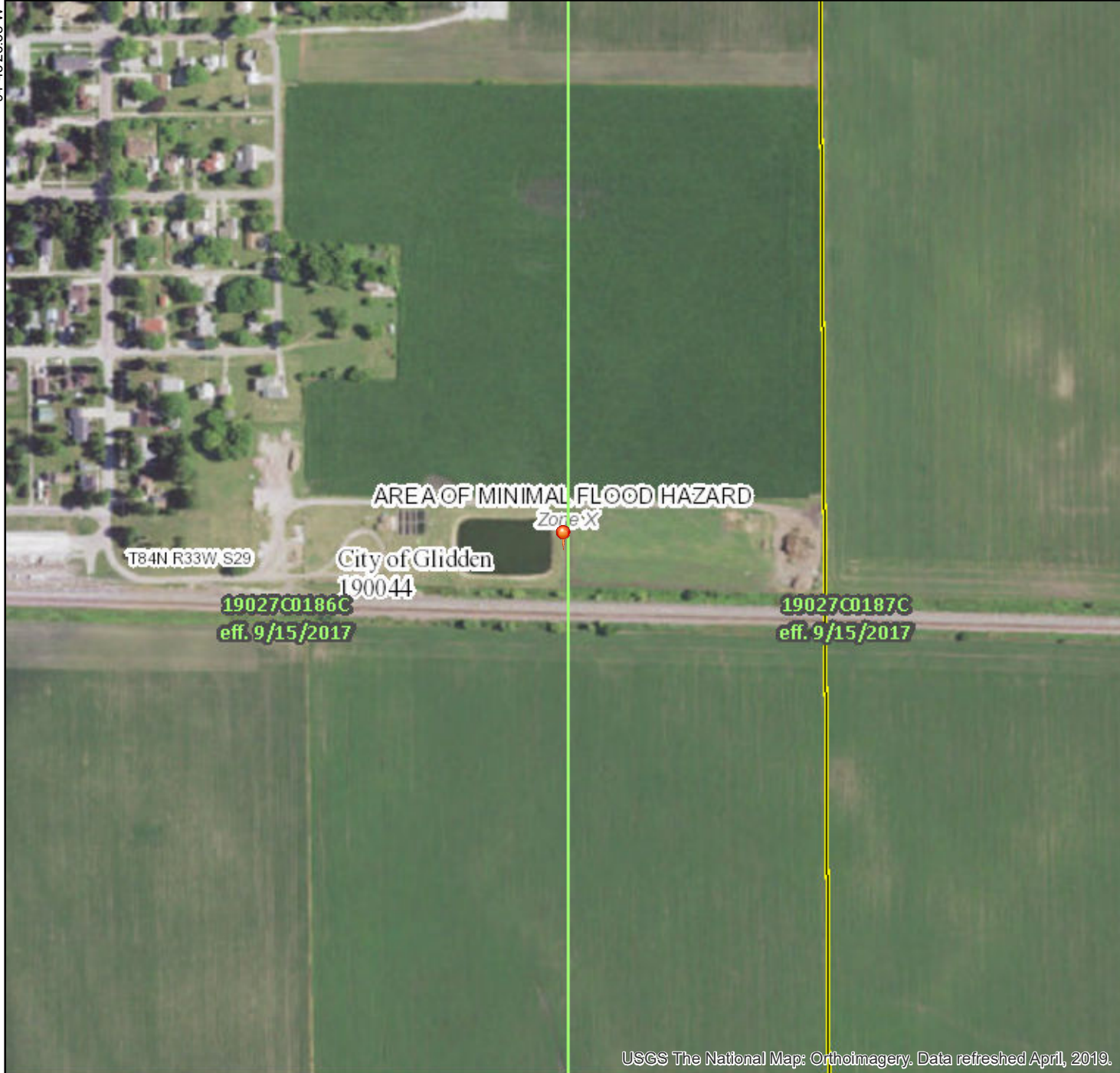
Appendix G
Floodplain Documentation



National Flood Hazard Layer FIRMMette



42°3'33.22"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **5/21/2020 at 1:02:51 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

USGS The National Map: Orthoimagery. Data refreshed April, 2019.



42°3'6.51"N

94°42'48.93"W



Appendix H
SHPO Documentation

190814067

REQUEST FOR SHPO COMMENT ON A PROJECT

Submit one copy with each property for which our comment is requested. Please print or type.
Return to: State Historical Society of Iowa, State Historic Preservation Office, 600 E. Locust St, Des Moines, IA 50319-0290

I. GENERAL INFORMATION

- This is a new submittal
- This is more information relating to SHPO R&C #: _____
- a. Property Name: Glidden Wastewater Treatment Plant Upgrade
- b. Property Street & Number: See Map
- c. County: Carroll City: Glidden Zip: 51443
- d. Federal Agency: IDNR/SRF Federal Funding Program/Permit: IDNR/SRF
- e. Agency Project No.: CS1920929 01
- f. Contact Person on Project: Jean Mayne Phone: (515) 725-0487
- g. Contact Address: 502 E. 9th Street, Des Moines, IA Zip: 50319-0034
email: jean.mayne@dnr.iowa.gov

II. IDENTIFICATION OF HISTORIC PLACES

Scope of Effort Applied

- As agreed in programmatic or other agency agreements with SHPO (if applicable)
- Includes the attached elements required under 36 CFR 800.4(a)
 - 1) Area of potential effects, as defined in 800.16(d), is shown on map
 - 2) Existing information has been reviewed on historic properties in the property area at SHPO office and/or other locations of inventory data
 - 3) Information has been sought from parties likely to have knowledge about historic properties in the project area
 - 4) Information gathered from Indian tribes, as appropriate

Identification Results

History and Architecture

- An attached Iowa Site Inventory form is completed for each building 50 years of age or older

Archaeology

- Yes No The project will involve excavation
- If yes, submit all of the following information (use attachments of necessary)
 - 1) Precise project location map (preferably U.S.G.S. 7.5 min Quad with name, date, & location)
 - 2) Site plan showing limits of proposed excavation
 - 3) Number of acres in project 29.4
 - 4) Legal location: Section(s) 29 Township(s) 84 N Range(s) 33 W
 - 5) Description of width and depth of proposed excavation and current conditions of project area

III. APPLICANT CERTIFICATION (Check Either Adverse Effect or No Adverse Effect for Historic Property Affected category)

Findings (Check One)

- No historic properties will be affected (i.e., none are present or there are historic properties present but the project will have no effect upon them) and adequate documentation under 800.11 is provided, including:
 - 1) A description of the undertaking, specifying the Federal involvement, and its area of potential effects, including photographs, maps, drawings, as necessary **and**
 - 2) A description of the steps taken to identify historic properties, including, as appropriate, efforts to seek information pursuant to 800.4(b) **and**
 - 3) The basis for determining that no historic properties are present or affected.

I understand that the SHPO has 30 days from receipt to object to the finding, after which the applicant's responsibilities under Section 106 of the Historic Preservation Act are fulfilled.

- An historic property will be affected for which documentation is provided as required in 36 CFR Part 800.11(e) and, in applying the criteria of adverse effect under 800.5, propose that the project be considered to have (Check One):
 - A No Adverse Effect under which, in consultation with the SHPO, the project will be modified or conditions imposed to avoid adverse effects. I understand that failure of the SHPO to provide a dated response within 30 days from receipt to the finding shall be considered agreement of the SHPO with the finding
 - An Adverse Effect is found and the applicant, or other federally authorized representative, will consult with the SHPO and other consulting parties to resolve the adverse effect under 800.6

Federally Authorized Signature: _____

Type name below

→ Jean Mayne, Environmental Review Specialist, SRF, IDNR

Date: 8/16/19

IV. STATE HISTORIC PRESERVATION OFFICE COMMENT

<input checked="" type="checkbox"/> Agree with the finding in section III above (move to reader's file) <input type="checkbox"/> Object to the finding for reasons indicated in attached letter <input type="checkbox"/> Cannot review until information is sent as follows: _____	<input type="checkbox"/> See attached follow-up letter
Authorized Signature: <u>Jean Mayne</u> Date: <u>9/12/2019</u>	

Please mail a copy of this signed statement to your contact person at the Federal Agency

Version: 12/18/02



August 16, 2019

Mr. Daniel Higginbottom
State Historical Preservation Office
State Historical Society of Iowa
600 E. Locust St.
Des Moines, IA 50319-0290

RE: Section 106 Review
City of Glidden – Wastewater Treatment Upgrade
Carroll County, Iowa
Glidden USGS 7.5 Minute Quadrangle
Section: 29, Township: 84 N, Range: 33W

Dear Mr. Higginbottom:

The City of Glidden, Iowa is planning an upgrade to their wastewater treatment facility. The city has applied for financial assistance through the State Revolving Fund (SRF) loan program to build the project.

We ask that you check the project location for any known or suspected adverse impacts to historic properties that run counter to or have not been considered by our determination. The attached maps and drawings show the location of the project. Also attached is a Request for SHPO Comment on a Project form.

The project area is currently an agricultural field and existing wastewater treatment plant. The proposed project includes construction of a new aerated lagoon facility with SAGR and ultraviolet disinfection processes. The project will require a new lift station, forcemain, access road, and administration/blower building. The project will also involve reuse, abandonment, or demolition of the existing wastewater facility and various utility line re-routing.

The proposed project will disturb an estimated 29.4 acres of land. An archaeological firm, the Office of the State Archeologist (OSA), was retained to perform a Phase 1 Intensive Archaeological Survey of the project area. No significant archaeological resources were identified within the project area. The Archaeological Report completed by the OSA is attached. Based on this information we believe that further archaeological survey of the project area is not justified.

The National Register of Historic Places does not list any sites in the City of Glidden. While National Register eligible properties may exist within Glidden, the proposed project will not affect any existing structures other than the existing wastewater treatment structures which were constructed in 1988. Based on this information we believe that further historical survey of the project area is not justified.

In accordance with Section 106 of the National Historic Preservation Act, we request that you respond in writing to this office within 30 days of receipt of this letter with any comments. If a response is not received within 30 days, the Department will assume that there are no comments. Please forward your comments to me at the address listed in the footer below.

If you have any questions, please contact me by email at Jean.Mayne@dnr.iowa.gov or by phone at (515) 725-0487.

Sincerely,



Jean Mayne
Environmental Review Specialist

502 E. 9th Street
Des Moines, IA 50319-0034

REQUEST FOR SHPO COMMENT ON A PROJECT

Submit one copy with each property for which our comment is requested. Please print or type.
 Return to: State Historical Society of Iowa, State Historic Preservation Office, 600 E. Locust St, Des Moines, IA 50319-0290

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 This is more information relating to SHPO R&C #: _____

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 c. County: Carroll City: Glidden Zip: 51443
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 e. Agency Project No.: CS1920929 01
 f. Contact Person on Project: Jean Mayne Phone: (515) 725-0487
 g. Contact Address: 502 E. 9th Street, Des Moines, IA Zip: 50319-0034
 email: jean.mayne@dnr.iowa.gov

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Archaeology

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 if yes, submit all of the following information (use attachments if necessary)
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 An Adverse Effect is found and the applicant, or other federally authorized representative, will consult with the SHPO and other consulting parties to resolve the adverse effect under 800.6

Federally Authorized Signature: Jean Mayne
 Type name below → Jean Mayne, Environmental Review Specialist, SRF, IDNR

Date: 3/16/19

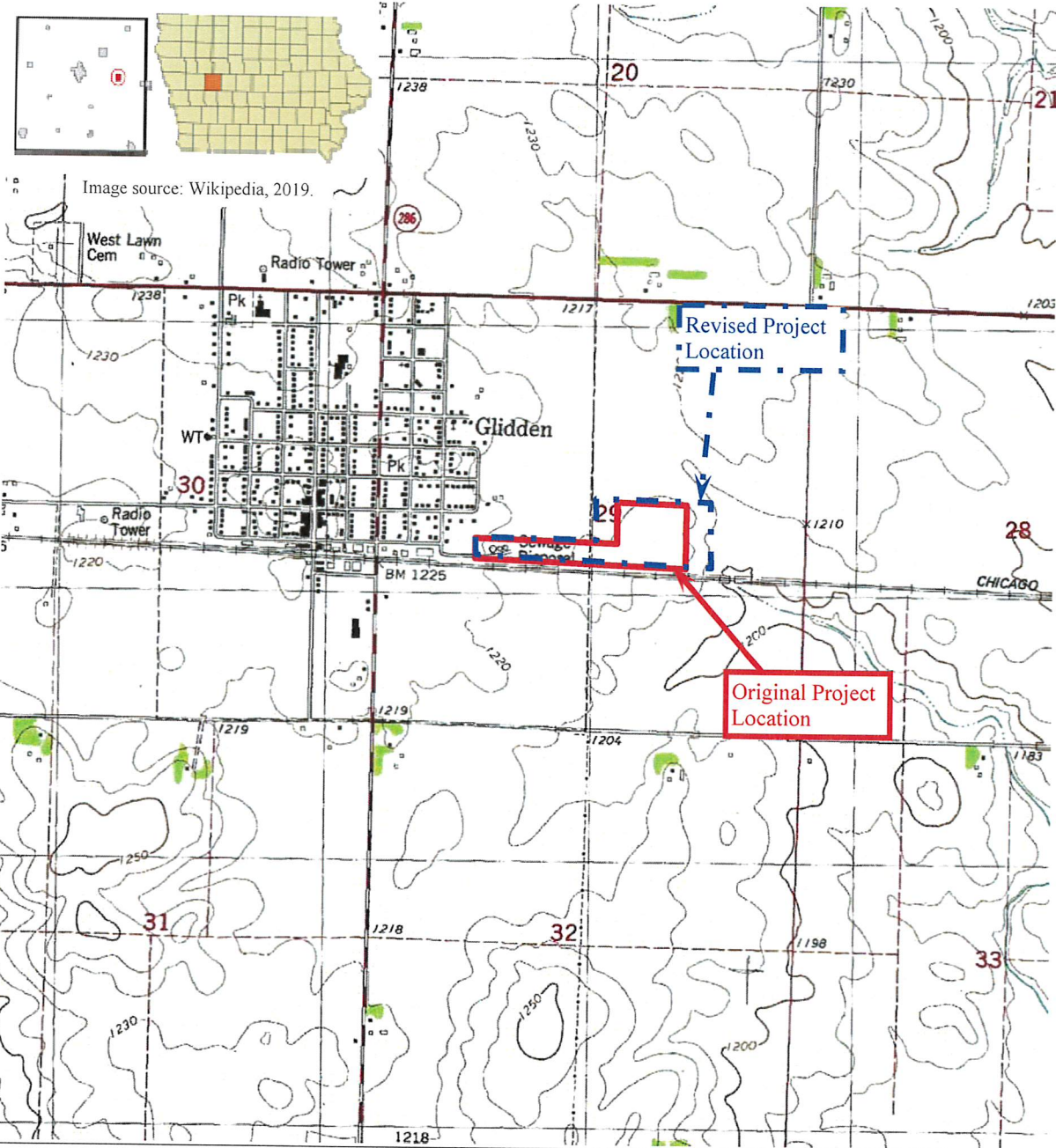
IV. STATE HISTORIC PRESERVATION OFFICE COMMENT

<input type="checkbox"/> Agree with the finding in section III above (move to reader's file)	<input type="checkbox"/> See attached follow-up letter
<input type="checkbox"/> Object to the finding for reasons indicated in attached letter	
<input type="checkbox"/> Cannot review until information is sent as follows: _____	
Authorized Signature: _____	Date: _____

USGS 7.5 Minute Quadrangle: Glidden
Section: 29, Township: 84 N, Range: 33 W
Date: 1980
Scale: 1 Inch = 2,000 Feet



North



USGS Topographic Map

Glidden Wastewater Treatment Plant Upgrade
Glidden, IA



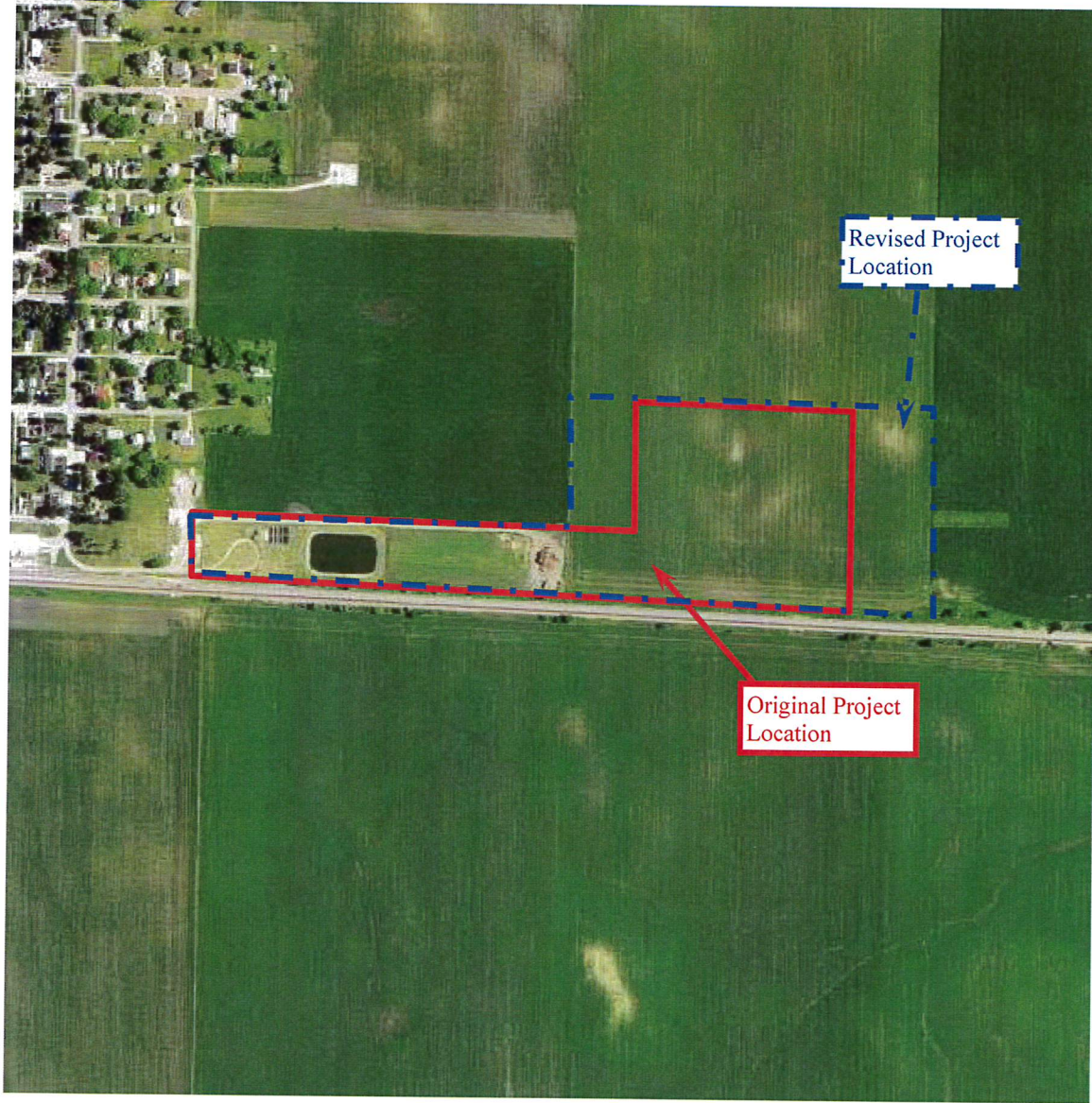
State Revolving Fund
502 East 9th Street
Des Moines, IA 50319-0034

2017

Location information provided by Veenstra & Kimm, Inc.



North



Aerial Photograph

Glidden Wastewater Treatment Plant Upgrade
Glidden, IA



State Revolving Fund
502 East 9th Street
Des Moines, IA 50319-0034

Appendix I
Noise Control

ADDITIONAL INFORMATION FOR EA AND CEST PROJECTS - SHEET C

Noise Assessment Guidelines

Noise: The Quiet Communities Act (24 CFR Part 51, Subpart B):

The Act establishes specific noise control requirements for CDBG-funded projects. Grant Recipients must take into consideration the noise criteria and standards in the environmental review process and consider ameliorative actions when noise sensitive land development is proposed in noise exposed areas.

The prime concern of a CDBG environmental impact assessment for noise should be the effect of existing and projected noise levels on the proposed activities and facilities.

If your project is not noise sensitive (e.g., water & sewer projects) then you can skip this assessment and note in the environmental review that the nature of the project, as described, is not noise sensitive.

An assessment will be needed if housing and other noise sensitive uses are proposed:

1. Document the following on a map (either your project meets this criteria or not):

- Existing or proposed commercial or military airports within 15 miles of the site.
- Roadways within 1,000 feet of the site with such characteristics (e.g., high traffic levels, high speed, heavy truck/bus usage, slope gradients, etc.) that would indicate high ambient vehicular noise levels.
- Railroads within 3,000 feet of the site.
- Other significant noise sources (e.g., industrial/manufacturing facilities, power generating stations, firing ranges) in proximity to the site.

2. If you project is within the distance criteria above, you must perform a noise calculation. It can be found here: <https://www.hudexchange.info/environmental-review/dnl-calculator/>.

- a. Airports: contact Airport for noise contour maps
- b. Road data: <https://iowadot.gov/maps/digital-maps/traffic-maps/county>
- c. Railroads: <http://safetydata.fra.dot.gov/OfficeofSafety/publicsite/crossing/xingqryloc.aspx>
 - i. Some defaults:
 - 1. Diesel Engines: # of diesel = 2, # of rail cars = 50, Average Speed = 30, nighttime of ATO = .15 or 15%
 - 2. Electric Engines: # of electric = 1, # of rail cars = 8, Average Speed = 30, nighttime of ATO = .15 or 15%

3. If your decibel level is above 65 dB – 75 dB:

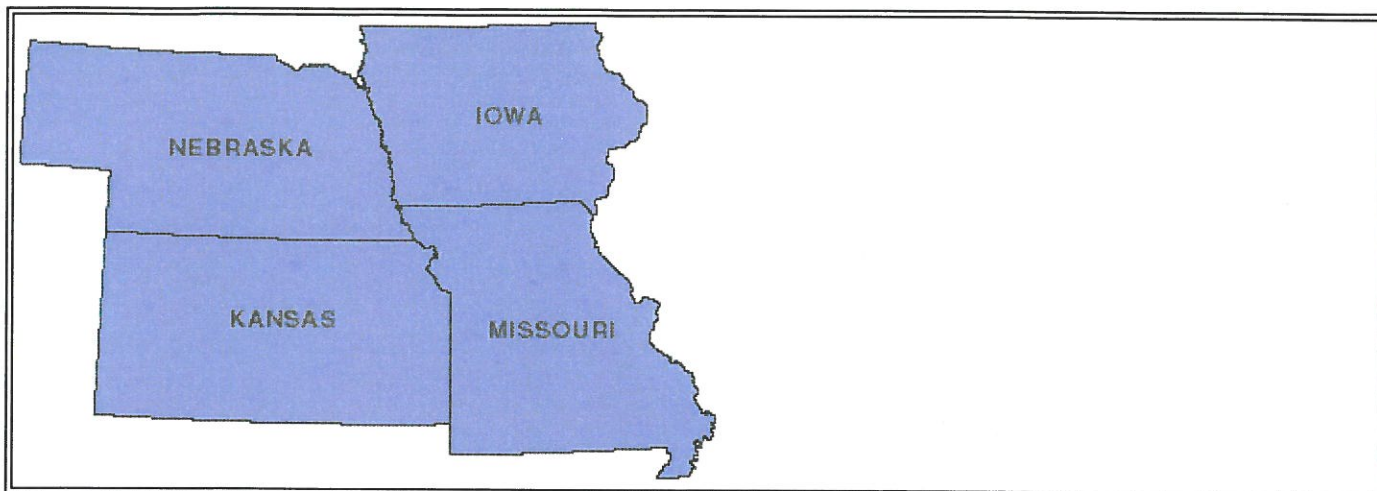
- a. For new construction – you MUST mitigate
- b. For Rehab – you are strongly encouraged to mitigate

However, if above 75 dB you MUST contact leslie leager at IEDA for additional instructions.

Appendix J
Sole Source Aquifers

Designated Sole Source Aquifers in EPA Region VII

Iowa, Kansas, Missouri, Nebraska



REGION VII (IA, KS, MO, NE)

Stephanie Lindberg
Drinking Water/Ground Water Branch
EPA Region 7
901 N. 5th Street
Kansas City, KS 66101
phone: (800) 223-0425
email: lindberg.stephanie@epa.gov

There are no designated Sole Source Aquifers in Region VII. Contact the coordinator above for more information about designating SSAs in Region VII.

Return to: [Sole Source Aquifer program home page](#)

Appendix K
Wetland Protection



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov

May 21, 2020

Wetlands

- | | | |
|--|---|--|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland |  Lake |
|  Estuarine and Marine Wetland |  Freshwater Forested/Shrub Wetland |  Other |
| |  Freshwater Pond |  Riverine |

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.

Appendix L
Wild and Scenic Rivers

2019 Novel Coronavirus (COVID-19) Response

Following guidance from the White House, Centers for Disease Control and Prevention, and state and local public health authorities, we are increasing access and services in a phased approach across all units of the National Park System. Before visiting a park, please check the [park website](#) to determine its operating status. Updates about the overall NPS response to COVID-19, including safety information, are posted on www.nps.gov/coronavirus.

National Park Service

Rivers

Iowa

River	County	Reach	Length (miles)	Description	Potential Classification	ORVs	Watershed (HUC Code 8)	Year Listed/Updated	Other State
Boone River	Hamilton and Webster	From Webster City to confluence with Des Moines River.	26	Iowa's first designated "Protected Water Area." Identified for its scenic and natural qualities, including relatively undisturbed riparian habitat and excellent smallmouth bass fishery.	Recreational	Fish, Recreational, Scenic, Wildlife	Middle Des Moines	1995	
Cedar River	Louisa, Muscatine	Highway 6 to mouth at Iowa River	31	Two federally listed endangered species of mussel and one federally listed species of bat may be found along the river; potentially rich in cultural resources; nice streamside relief with bluffs and ridges.		Cultural, Fish, Wildlife	Lower Cedar	1982	
Maquoketa River	Jackson, Jones	US 151 Bridge to Mississippi River (omit small reservoir northwest of Maquoketa)	81	River cuts narrow, gorge-like valley up to 150 feet deep through limestone; excellent water quality supporting productive smallmouth bass fishery; potentially rich in cultural resources; threatened northern wild monkshood has been found in basin.		Cultural, Fish, Geologic, Historic, Recreational, Scenic, Wildlife, Other	Maquoketa	1982	
Middle Raccoon River	Guthrie and Dallas	City of Panora to the city of Redfield dam.	17	A designated Iowa "Protected Water Area." Beautiful canoe route with good access. Excellent smallmouth bass fishing and wildlife viewing.	Scenic	Fish, Recreational, Scenic, Wildlife	South Raccoon	1995	
Turkey River	Clayton, Gayette, Winneshiek, Howard	Vernon Springs to Mississippi River	134	Gently rolling hills with dense stands of trees; good trout stream; high potential for significant cultural resources; northern wild monkshood, a federally listed endangered species, has been found in the basin.		Cultural, Fish, Geologic, Historic, Recreational, Scenic, Other	Turkey	1982	
Upper Iowa River	Winneshiek and Allamakee	City of Kendallville to Highway 76 crossing.	73	A designated "Protected Water Area." The state's most scenic canoe river with towering limestone outcroppings and beautiful riparian habitat. Good bass and trout fishing.	Wild	Scenic, Recreational, Geologic, Fish, Wildlife	Upper Iowa	1995	

Wapsipinicon River	Clinton, Scott, Cedar, Jones, Linn, Buchanan, Black Hawk, Bremer	Frederika to mouth at Mississippi River omitting reservoir NW of Independence, IA.	215	A designated Iowa "Protected Water Area." Wide, wooded flood plain with only limited development and agricultural encroachment; wide diversity of fish and wildlife habitat; exposed geologic fault; historically valuable Stone City quarries.		Fish, Geologic, Historic, Scenic, Wildlife	Upper Wapsipinicon	1982
Yellow River	Allamakee	Highway W60 near Myron (section 3, Post Township) to boundary of Effigy Mounds National Monument	32	Heavily wooded with marked relief, camping and backpacking opportunities; unusual ecological niches and plant life, including the northern wild monkshood, a federally listed threatened plant, has been found in the basin; good fishery; high potential for cultural resources (Effigy Mounds National Monument adjoins near mouth).		Cultural, Fish, Historic, Recreational, Scenic, Wildlife	Coon-Yellow	1982
Yellow River	Allamakee	Entire segment within Effigy Mounds National Monument	4	One of fastest falling rivers in state, providing excellent fishing and canoeing opportunities. Numerous prehistoric Indian burial mounds. Site of Jefferson Davis Sawmill upstream from boundary.	Scenic	Cultural, Geologic, Historic, Recreational, Scenic, Wildlife	Coon-Yellow	1982/ 1993

Last updated: November 30, 2016

EXPERIENCE MORE

SUBJECTS

Urban Parks and Programs

Wetlands

Watersheds

+ View All Related Subjects

PARKS

Alagnak Wild River

Big South Fork National River & Recreation Area

Bluestone National Scenic River

Buffalo National River

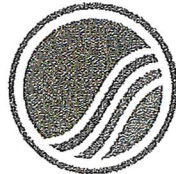
Chattahoochee River National Recreation Area

Delaware Water Gap National Recreation Area

View All Related Parks

Appendix M
IDNR Environmental Assessment

Why You Should Read This: The document below reviews the environmental impact likely from a project. This project is planned to be federally funded through your tax dollars; therefore, you are entitled to take part in its review. If you have concerns about the environmental impact of this project, raise them now. We encourage public input in this decision making process.



IOWA STATE REVOLVING FUND
ENVIRONMENTAL INFORMATION ASSESSMENT DOCUMENT

PROJECT IDENTIFICATION

Applicant: City of Glidden
County: Carroll
State: Iowa

SRF Number: CS1920929 01
Iowa DNR Project Number: 2016-0396A

COMMUNITY DESCRIPTION

Location: The City of Glidden is located in Carroll County, Iowa approximately 90 miles northwest of Des Moines, Iowa and 120 miles northeast of Omaha, Nebraska.

Population: The population of Glidden according to the 2010 US Census was 1,146 persons. The design population equivalent for the year 2038 is 1,300.

Current Waste Treatment: The Glidden Wastewater treatment facility was constructed in 1988 as an extended aeration activated sludge plant. At the time it was constructed, the population of the City was estimated to be 1,076 persons. Since then the City has grown and the physical condition of the facility has deteriorated. While the major concrete structures are in good condition, the process equipment in the activated sludge tanks, structural walk ways, hand railing, and equipment in the head works building are in poor condition.

PROJECT DESCRIPTION

Purpose: The purpose of this project is to make improvements to the wastewater treatment facilities to enhance their reliability, increase capacity and to replace obsolete system to safely and reliably operate the City of Glidden's wastewater system for at least the next 20 years.

Proposed Improvements: The proposed project includes construction of a new aerated lagoon facility with SAGR and ultraviolet disinfection processes. The project will require a new lift station, forcemain, access road, and administration/blower building. The project will also involve reuse, abandonment, or demolition of the existing wastewater facility and various utility line re-routing.

Receiving Stream: The treated wastewater from the facility will discharge to Willow Creek, a tributary to the South Raccoon River. It has a use stream designation of A2 BWW2. An A2 stream is one in which recreational or other uses may result in contact with the water that is either incidental or accidental. During the recreational use, the probability of ingesting appreciable quantities of water is minimal. Class A2 uses include fishing, commercial and recreational boating, any limited contact incidental to shoreline activities and activities in which users do not swim or float in the water body while on a boating activity. A BWW2 stream is one in which flow or other physical characteristics are capable of supporting a resident aquatic community that includes a variety of native nongame fish and invertebrate species. The flow and other physical characteristics limit the maintenance of warm water game fish populations. These waters generally consist of small perennially flowing streams.

ALTERNATIVES CONSIDERED

Alternatives Considered: Reuse of the existing activated sludge system was considered for this project. Construction of a new treatment plant was considered, including several variations of treatment design and method. Construction of an ultraviolet disinfection system or a chlorination/dechlorination system (using either gas or liquid chlorine) were also considered.

Reasons for Selection of Proposed Alternative: The No-Action alternative is not viable due to the condition of the existing facility and the new permit requirements. The Reuse of existing activated sludge system to meet the projected flows and loadings and to comply with the new permit limits would require a fairly extensive reconstruction and was eliminated from consideration. After an analysis, it was found that the ultraviolet disinfection system had a lowest capital, operating, and maintenance cost of the alternatives examined.

The project site was selected for the availability of land, engineering criteria, cost, separation distances, proximity to existing infrastructure, and ease of use as well as minimization of the impacts to the environment.

MEASURES TAKEN TO ASSESS IMPACT

Public Involvement: A public hearing was held on October 14, 2019 at 5:30PM at the City's regular council meeting. The public notice of this hearing was published in the

Times Herald newspaper on September 10, 2019. The purpose of this hearing was to present the environmental and financial impacts of the proposed improvement project. No written or oral comments were received.

Coordination and Documentation with Other Agencies and Special Interest Groups:

The following Federal, state and local agencies were asked to comment on the proposed project to better assess the potential impact to the environment:

- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- Natural Resources Conservation Service
- State Historical Society of Iowa (State Historical Preservation Office)
- Iowa DNR Conservation and Recreation Division
- Iowa DNR Water Resources Section
- Citizen Band Potawatomi Indian Tribe
- Flandreau Santee Sioux
- Ho-Chunk Nation
- Iowa Tribe of Kansas and Nebraska
- Iowa Tribe of Oklahoma
- Kickapoo Tribe in Kansas
- Kickapoo Tribe of Oklahoma
- Lower Sioux Indian Community Council
- Miami Tribe of Oklahoma
- Omaha Tribal Council
- Osage Tribal Council
- Otoe-Missouria Tribe
- Pawnee Nation of Oklahoma
- Peoria Tribe of Indians of Oklahoma
- Ponca Tribe of Indians of Oklahoma
- Ponca Tribe of Nebraska
- Prairie Band Potawatomi Nation
- Prairie Island Indian Community
- Sac & Fox Nation of Mississippi in Iowa
- Sac & Fox Nation of Missouri
- Sac & Fox Nation of Oklahoma
- Santee Sioux Nation
- Shakopee Mdewakanton Sioux Community
- Sisseton-Wahpeton Oyate
- Spirit Lake Tribal Council
- Three Affiliated Tribes Mandan, Hidatsa & Arikara Nations
- Upper Sioux Tribe
- Winnebago Tribal Council
- Yankton Sioux Tribal Business and Claims Committee

No adverse comments were received from any agencies or general public. Conditions placed on the applicant by the above agencies in order to assure no significant impact are included in the Summary of Reasons for Concluding No Significant Impact section.

ENVIRONMENTAL IMPACT SUMMARY

Construction: Traffic patterns within the community may be disrupted and above normal noise levels in the vicinity of the construction equipment can be anticipated during construction and should be a temporary problem. Adverse environmental impacts on noise quality will be handled by limited hours of contractor work time during the day. Other adverse environmental effects from construction activities will be minimized by proper construction practices, inspection, prompt cleanup, and other appropriate measures. Areas temporarily disturbed by the construction will be restored. Solid wastes resulting from the construction project will be regularly cleared away with substantial efforts made to minimize inconvenience to area residents.

Care will be taken to maintain dirt to avoid erosion and runoff. The proposed project will disturb soils over an area greater than one acre; therefore, the applicant is required to obtain an NPDES General Permit Number 2 (for storm water discharge associated with construction activities) and abide by its terms. Provided that this permit is obtained and the terms of which are abided by, no significant impact to surface water quality, fish, shellfish, wildlife, or their natural habitats is expected.

Temporary air quality degradation may occur due to dust and fumes from construction equipment. The applicant shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property during the proposed project (567 Iowa Administrative Code IAC 23.3(2)“c”).

This project may require the disposal of sewage sludge. It is the responsibility of the applicant to ensure that the disposal of any sewage sludge complies with applicable requirements found in 40 CFR Part 503 and 567 Iowa Administrative Code IAC 67.

Historical/Archaeological: The State Historical Preservation Office (SHPO) and various Native American tribes with an interest in the area were provided information regarding the project. The DNR has determined, and the SHPO has concurred (R&C#190814067), that this undertaking will result in “no historic properties affected” based on the scope of the project, the prior use of the project area, and the findings of the Phase I Archeological Survey conducted on the project property. However, if project activities uncover any item(s) that might be of archaeological, historical, or architectural interest, or if important new archaeological, historical, or architectural data should be encountered in the project APE, the applicant should make reasonable efforts to avoid further impacts to the property until an assessment can be made by an individual meeting the Secretary of the Interior’s professional qualifications standards (36 CFR Part 61).

Environmental: The project area is currently an agricultural field and existing wastewater treatment plant. According to the Iowa DNR Conservation and Recreation Division, the proposed project will not interfere with any State-owned parks, recreational areas or open spaces. The U.S. Army Corps of Engineers concurs that the project will not impact wetlands. The project will not impact any wild and scenic rivers as none exist within the State of Iowa. The U.S. Fish & Wildlife Service Section 7 Technical Assistance website consultation determined, and Iowa DNR Conservation and Recreation Division agree, that the project will not impact threatened or endangered species or their habitats. However, if any State- or Federally-listed threatened or endangered species or communities are found during the planning or construction phases, additional studies and/or mitigation may be required. According to the Iowa DNR Water Resources Section, this project will not impact the 100-year floodplain. No adverse impacts are expected to result from this project, such as those to surface water quantity, or groundwater quality or quantity.

Land Use and Trends: The project will not displace population nor will it alter the character of existing residential areas. An analysis of the conversion of the significant farmland impacted is currently underway; while significant farmland will be impacted as determined by a Farmland Conversion Rating Form, no lesser scoring alternative appears feasible. This project should not impact population trends as the presence or absence of existing water/sewer infrastructure is unlikely to induce significant alterations in the population growth or distribution given the myriad of factors that influence development in this region. Similarly, this project is unlikely to induce significant alterations in the pattern and type of land use.

Irreversible and Irrecoverable Commitment of Resources: Fuels, materials, and various forms of energy will be utilized during construction.

POSITIVE ENVIRONMENTAL EFFECTS TO BE REALIZED FROM THE PROPOSED PROJECT

Positive environmental effects will be improved treatment of the wastewater from the City of Glidden, compliance with effluent discharge permit limits, reduced discharge of the pollutants to the receiving stream, and improved water quality in the receiving stream.

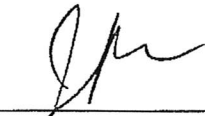
SUMMARY OF REASONS FOR CONCLUDING NO SIGNIFICANT IMPACT

- The project will not significantly affect the pattern and type of land use (industrial, commercial, agricultural, recreational, residential) or growth and distribution of population.
- The project will not conflict with local, regional or State land use plans or policies.
- The project will not impact wetlands.

- The project will not affect threatened and endangered species or their habitats. If any State- or Federally-listed threatened or endangered species or communities are found during the planning or construction phases, additional studies and/or mitigation may be required.
- The project will not displace population or alter the character of existing residential areas. An analysis of the conversion of the significant farmland impacted is currently underway; while significant farmland will be impacted as determined by a Farmland Conversion Rating Form, no lesser scoring alternative appears feasible.
- The project will not affect the 100-year flood plain.
- The project will not have effect on parklands, preserves, other public lands, or areas of recognized scenic or recreational value.
- No Historic Properties will be adversely affected by the proposed project. However, if project activities uncover any item(s) that might be of archaeological, historical, or architectural interest, or if important new archaeological, historical, or architectural data should be encountered in the project APE, the applicant should make reasonable efforts to avoid further impacts to the property until an assessment can be made by an individual meeting the Secretary of the Interior's professional qualifications standards (36 CFR Part 61).
- The project will not have a significant adverse effect upon local ambient air quality provided the applicant takes reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property during the proposed project (567 IAC 23.3(2)"c").
- The project will not have a significant adverse effect upon local ambient noise levels, surface water quantity, groundwater quality or quantity, or water supply.
- No significant impact to surface water quality, fish, shellfish, wildlife, or their natural habitats is expected provided that an NPDES General Permit Number 2 (for storm water discharge associated with construction activities) is obtained and the terms of which are abided by.

THEREFORE:

The above project conforms to the criteria in 567 Iowa Administrative Code 92.8(1)"b" relating to compliance with the National Environmental Policy Act of 1969. No adverse effect or significant environmental impact is foreseen at this time.

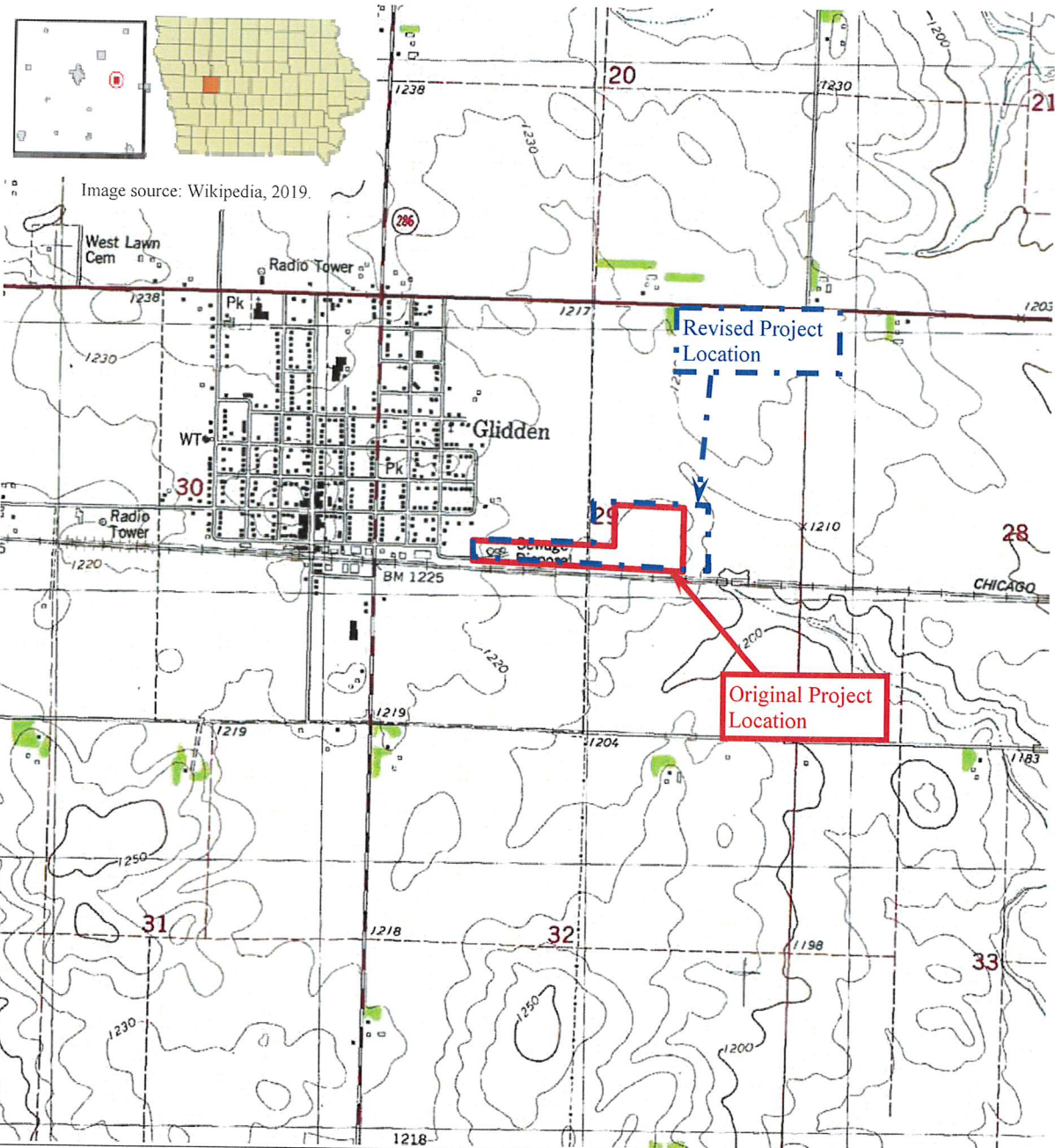


Jean Mayne
Environmental Review Specialist
State Revolving Fund
Iowa Department of Natural Resources

USGS 7.5 Minute Quadrangle: Glidden
Section: 29, Township: 84 N, Range: 33 W
Date: 1980
Scale: 1 Inch = 2,000 Feet



North



USGS Topographic Map

Glidden Wastewater Treatment Plant Upgrade
Glidden, IA



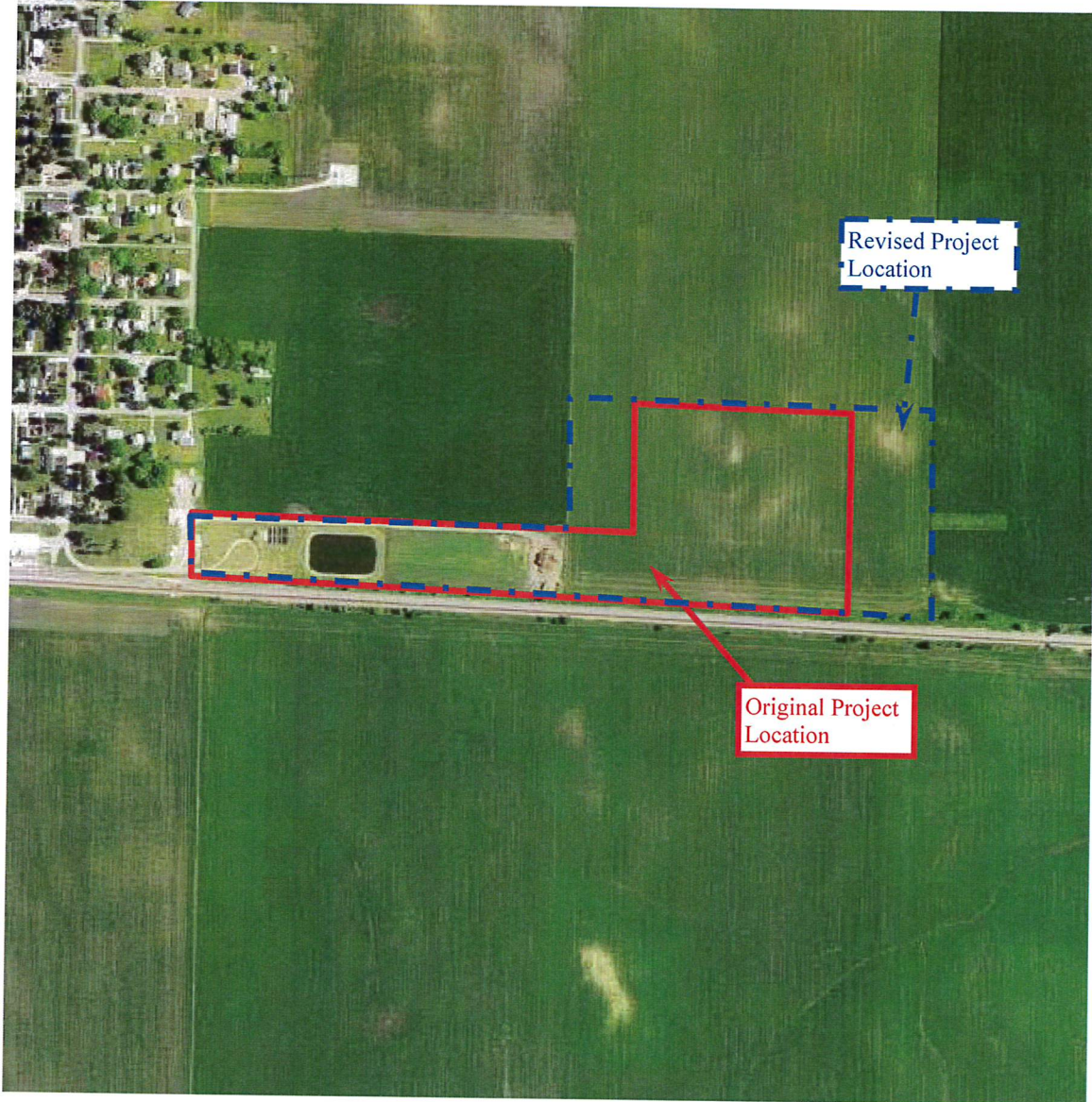
State Revolving Fund
502 East 9th Street
Des Moines, IA 50319-0034

2017

Location information provided by Veenstra & Kimm, Inc.



North



Aerial Photograph

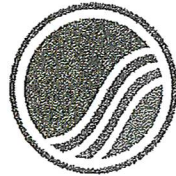
Glidden Wastewater Treatment Plant Upgrade
Glidden, IA



State Revolving Fund
502 East 9th Street
Des Moines, IA 50319-0034

Appendix N
IDNR Finding of No Significant Impact

Why You Should Read This: The document below reviews the environmental impact likely from a project. This project is planned to be federally funded through your tax dollars; therefore, you are entitled to take part in its review. If you have concerns about the environmental impact of this project, raise them now. We encourage public input in this decision making process.



IOWA STATE REVOLVING FUND
FINDING OF NO SIGNIFICANT IMPACT

October 30, 2019

To: All Interested Citizens, Government Agencies, and Public Groups

An environmental review has been performed based on the procedures for implementing the National Environmental Policy Act (NEPA), for the proposed agency action below:

Applicant: City of Glidden
County: Carroll
State: Iowa

SRF Number: CS1920929 01
Iowa DNR Project Number: 2016-0396A

The City of Glidden, Iowa is planning an upgrade to their wastewater treatment facility. The city has applied for financial assistance through the State Revolving Fund (SRF) loan program to build the project. The State Revolving Loan Program is a program authorized by the Environmental Protection Agency (EPA) and administered by the Iowa Department of Natural Resources (DNR) in partnership with the Iowa Finance Authority.

The City of Glidden is located in Carroll County, Iowa approximately 90 miles northwest of Des Moines, Iowa and 120 miles northeast of Omaha, Nebraska. The population of Glidden according to the 2010 US Census was 1,146 persons. The design population equivalent for the year 2038 is 1,300.

The Glidden Wastewater treatment facility was constructed in 1988 as an extended aeration activated sludge plant. At the time it was constructed, the population of the City was estimated to be 1,076 persons. Since then the City has grown and the physical condition of the facility has deteriorated. While the major concrete structures are in good condition, the process

equipment in the activated sludge tanks, structural walk ways, hand railing, and equipment in the head works building are in boor condition.

The purpose of this project is to make improvements to the wastewater treatment facilities to enhance their reliability, increase capacity and to replace obsolete system to safely and reliably operate the City of Glidden's wastewater system for at least the next 20 years. The proposed project includes construction of a new aerated lagoon facility with SAGR and ultraviolet disinfection processes. The project will require a new lift station, forcemain, access road, and administration/blower building. The project will also involve reuse, abandonment, or demolition of the existing wastewater facility and various utility line re-routing.

The treated wastewater from the facility will discharge to Willow Creek, a tributary to the South Raccoon River. It has a use stream designation of A2 BWW2. An A2 stream is one in which recreational or other uses may result in contact with the water that is either incidental or accidental. During the recreational use, the probability of ingesting appreciable quantities of water is minimal. Class A2 uses include fishing, commercial and recreational boating, any limited contact incidental to shoreline activities and activities in which users do not swim or float in the water body while on a boating activity. A BWW2 stream is one in which flow or other physical characteristics are capable of supporting a resident aquatic community that includes a variety of native nongame fish and invertebrate species. The flow and other physical characteristics limit the maintenance of warm water game fish populations. These waters generally consist of small perennially flowing streams.

Positive environmental effects will be improved treatment of the wastewater from the City of Glidden, compliance with effluent discharge permit limits, reduced discharge of the pollutants to the receiving stream, and improved water quality in the receiving stream. The project will not significantly affect the pattern and type of land use (industrial, commercial, agricultural, recreational, residential) or growth and distribution of population. The project will not conflict with local, regional or State land use plans or policies.

The project will not impact wetlands. The project will not affect threatened and endangered species or their habitats. If any State- or Federally-listed threatened or endangered species or communities are found during the planning or construction phases, additional studies and/or mitigation may be required. The project will not displace population or alter the character of existing residential areas. An analysis of the conversion of the significant farmland impacted is currently underway; while significant farmland will be impacted as determined by a Farmland Conversion Rating Form, no lesser scoring alternative appears feasible. The project will not affect the 100-year flood plain.

The project will not have effect on parklands, preserves, other public lands, or areas of recognized scenic or recreational value. No Historic Properties will be adversely affected by the proposed project. However, if project activities uncover any item(s) that might be of archaeological, historical, or architectural interest, or if important new archaeological, historical, or architectural data should be encountered in the project APE, the applicant should

make reasonable efforts to avoid further impacts to the property until an assessment can be made by an individual meeting the Secretary of the Interior's professional qualifications standards (36 CFR Part 61).

The project will not have a significant adverse effect upon local ambient air quality provided the applicant takes reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property during the proposed project (567 IAC 23.3(2)"c"). The project will not have a significant adverse effect upon local ambient noise levels, surface water quantity, groundwater quality or quantity, or water supply. No significant impact to surface water quality, fish, shellfish, wildlife, or their natural habitats is expected provided that an NPDES General Permit Number 2 (for storm water discharge associated with construction activities) is obtained and the terms of which are abided by.

Minimum separation distances will be maintained. Noise during construction will be maintained at tolerable levels through controls on construction activities. Any construction debris will be removed from the site for proper disposal. Adverse environmental effects from construction activities will be minimized with proper construction practices, inspection, prompt clean up and other appropriate measures. Areas temporarily disturbed by the construction will be restored.

It has been determined that the proposed action will result in no significant impacts to the surrounding environment. This determination is based on a careful review of the engineering report, the environmental assessment and other supporting data which are on file at the Department of Natural Resources' office in Des Moines, Iowa. These are available for public review upon request. A copy of the environmental assessment is attached. This Department will not take any administrative action on the project for at least thirty (30) calendar days from the above date. Persons disagreeing with the above environmental decision may submit comments to the department during this period. Please direct your comments to me at Jean.Mayne@dnr.iowa.gov or 515-725-0487.

Sincerely,



Jean Mayne
Environmental Specialist
502 E. 9th Street
Des Moines, IA 50319-0034

Enclosures: Environmental Assessment
Project Map

Distribution

List (email): Veenstra & Kimm, Inc.
Michael Drummond, Council on Environmental Quality

Jake Hansen, Iowa Department of Agriculture and Land Stewardship
Ken Sharp, Iowa Department of Public Health
Sara Carmichael-Stanley, Iowa Department of Public Health
Leslie Leager, Iowa Economic Development Authority
Ingrid Gronstal, Iowa Environmental Council
Tracy Scebold, Iowa Finance Authority
Alyson Fleming, Iowa Finance Authority
Mickey Shields, Iowa League of Cities
Jane Clark, Sierra Club
Josh Mandelbaum, Environmental Law and Policy Center
Charles Detrick, USDA Rural Development
Kate Sand, USDA Rural Development
Tokey Boswell, USDO, National Park Service, Midwest Region
Kraig McPeck, Fish and Wildlife Service, Rock Island Field Office
Christopher Simmons, USEPA Region VII
Kelly Beard-Tittone, USEPA Region VII
The Times Herald newspaper