

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

January 14, 2022

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 Carlisle

SRF Number: FS-91-20-DWSRF-032

County: Polk & Warren Counties

Iowa DNR Project Number: W2020-0126

State: Iowa

The City of Carlisle, Iowa is planning an upgrade to their drinking water infrastructure. 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 Carlisle is located in both Polk County and Warren County, Iowa approximately 12 southeast miles of Des Moines, Iowa and 15 miles northeast of Indianola, Iowa. The population of Carlisle according to the 2010 US Census was 4,282. The design population equivalent for the year 2030 is 9,395.

Currently, Avon Lake residents each have their own private water well. In 2017 the City of Carlisle extended a 12-inch water main to service the northwest area of Carlisle. The project provided water service to residents along SE 52nd Street and SE 64th Avenue, Iowa Department of Transportation Maintenance Facility, General Mills, and future commercial and industrial properties. Currently, the 12-inch water main consists of over 4-miles of dead-end pipe. The

presence of dead-ends increases the risk of stagnation due to low flow rates; stagnation may result in a decrease in the water quality. Carlisle has two elevated storage tanks.

The purpose of this project is to extend water service to the residents of an unincorporated area in Polk County known as Avon Lake. The proposed project will provide City of Carlisle portable water to residential homes in Polk County, fire flow protection, increased water reliability and quality by looping the water main and water service to future development ground. This project will complete a large loop providing redundancy to areas serviced by both the 2017 extension project and the planned Avon Lake loop, provide improved fire flow protection to these areas, and provide quality water to the residents.

The project area is currently existing residential property, existing paved roadway, and park property. The proposed project will consist of approximately 6,500 feet of 12-inch water main running from the Carlisle City Park through the Avon Lake area and connect to a previously constructed water main. A service line of approximately 11,000 feet of 6-inch water main for each property in Avon Lake will be constructed to provide water service up to the curb stop.

The project will not significantly affect the pattern and type of land use (industrial, commercial, agricultural, recreational, and 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 provided the terms of Consent Contract DACW25-9-21-4824 are abided by. The project will not affect threatened and endangered species or their habitats provided that any tree cutting is conducted between October 1 and March 31 to avoid impacting endangered bats. 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, alter the character of existing residential areas, or convert significant farmlands to non-agricultural purposes. The project will not affect the 100-year flood plain provided Flood Plain Development Permit Number 2021-0959FP-01 as well as local permits are abided by. 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 casey.laskowski@dnr.iowa.gov or 515-204-5672.

Sincerely,

Casey Laskowski
Environmental Specialist
502 E. 9th Street
Des Moines, IA 50319-0034

Enclosures: Environmental Assessment
Project Map

Distribution

List (email): John Gade, Fox Strand, Inc.
Mitch Holtz, Fox Strand, 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
Kate Sand, USDA Rural Development
Tokey Boswell, USDOJ, 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
Des Moines Register

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IOWA STATE REVOLVING FUND
ENVIRONMENTAL ASSESSMENT DOCUMENT

PROJECT IDENTIFICATION

Applicant: City of Carlisle
County: Polk & Warren Counties
State: Iowa

SRF Number: FS-91-20-DWSRF-032
Iowa DNR Project Number: W2020-0126

COMMUNITY DESCRIPTION

Location: The City of Carlisle is located in both Polk County and Warren County, Iowa approximately 12 southeast miles of Des Moines, Iowa and 15 miles northeast of Indianola, Iowa.

Population: The population of Carlisle according to the 2010 US Census was 4,282. The design population equivalent for the year 2030 is 9,395.

Current Source of Water: Currently, Avon Lake residents each have their own private water well.

Current Distribution System: In 2017 the City of Carlisle extended a 12-inch water main to service the northwest area of Carlisle. The project provided water service to residents along SE 52nd Street and SE 64th Avenue, Iowa Department of Transportation Maintenance Facility, General Mills, and future commercial and industrial properties. Currently, the 12-inch water main consists of over 4-miles of dead-end pipe. The presence of dead-ends increases the risk of stagnation due to low flow rates; stagnation may result in a decrease in the water quality. Carlisle has two elevated storage tanks.

PROJECT DESCRIPTION

Purpose: The purpose of this project is to extend water service to the residents of an unincorporated area in Polk County known as Avon Lake. The proposed project will provide City of Carlisle portable water to residential homes in Polk County, fire flow protection, increased water reliability and quality by looping the water main and water service to future development ground. This project will complete a large loop providing redundancy to areas serviced by both the 2017 extension project and the planned Avon Lake loop, provide improved fire flow protection to these areas, and provide quality water to the residents.

Proposed Improvements: The project area is currently existing residential property, existing paved roadway, and park property. The proposed project will consist of approximately 6,500 feet of 12-inch water main running from the Carlisle City Park through the Avon Lake area and connect to a previously constructed water main. A service line of approximately 11,000 feet of 6-inch water main for each property in Avon Lake will be constructed to provide water service up to the curb stop.

ALTERNATIVES CONSIDERED

Alternatives Considered: Continued use of private wells, combined private shared water treatment and distributions system, and Avon Lake water main installation.

Reasons for Selection of Proposed Alternative: Continued use of private wells and a combined private shared water treatment and distributions system are both undesirable and too expensive. The Avon Lake water main installation will improve redundancy and flows to the area.

The project site was selected for the availability of land as well as minimization of the impacts to the environment.

MEASURES TAKEN TO ASSESS IMPACT

Public Involvement: A public hearing was held on August 23, 2021 at 6:30 PM. The public notice of this hearing was published in the Des Moines Register on July 24, 2021. 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
- 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”).

Historical/Archaeological: The State Historical Preservation Office (SHPO), the Certified Local Government 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#2004001340), 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: A Joint Application was submitted by the City’s consultant to the Iowa DNR Conservation and Recreation Division and U.S. Army Corps of Engineers. 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 provided that any tree cutting is conducted between October 1 and March 31 to avoid impacting endangered bats. 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 provided Flood Plain Development Permit Number 2021-0959FP-01 as well as local permits are abided by. No adverse impacts are expected to result from this project, such as those to surface water

quantity, or groundwater quality or quantity. No significant impact to surface water quality, fish, shellfish, wildlife, or their natural habitats is expected.

Land Use and Trends: The project will not displace population nor will it alter the character of existing residential areas. No significant farmlands will be impacted. 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 Irretrievable 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 maintained water quality for the citizens of Carlisle. This project will reduce the possibility of stagnation and low flows which can lead to a catastrophic loss of water supply and could result in City-wide health impacts due to a lack of sanitation and the use of other water sources that may not meet Federal drinking water standards.

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, and 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 provided the terms of Consent Contract DACW25-9-21-4824 are abided by.
- The project will not affect threatened and endangered species or their habitats provided that any tree cutting is conducted between October 1 and March 31 to avoid impacting endangered bats. 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, alter the character of existing residential areas, or convert significant farmlands to non-agricultural purposes.
- The project will not affect the 100-year flood plain provided Flood Plain Development Permit Number 2021-0959FP-01 as well as local permits are abided by.
- 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 44.10(3) relating to compliance with the National Environmental Policy Act of 1969. No adverse effect or significant environmental impact is foreseen at this time.

Casey Laskowski

Environmental Review Specialist

State Revolving Fund

Iowa Department of Natural Resources

USGS 7.5 Minute Quadrangle: Des Moines Southeast
Section: 33 & 34, Township: 78 N, Range: 23 W
Section: 03, Township: 77 N, Range: 23 W
Date: 1976
Scale: 1 Inch = 2,000 Feet



North

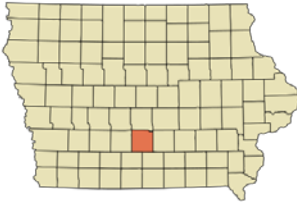
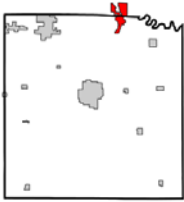
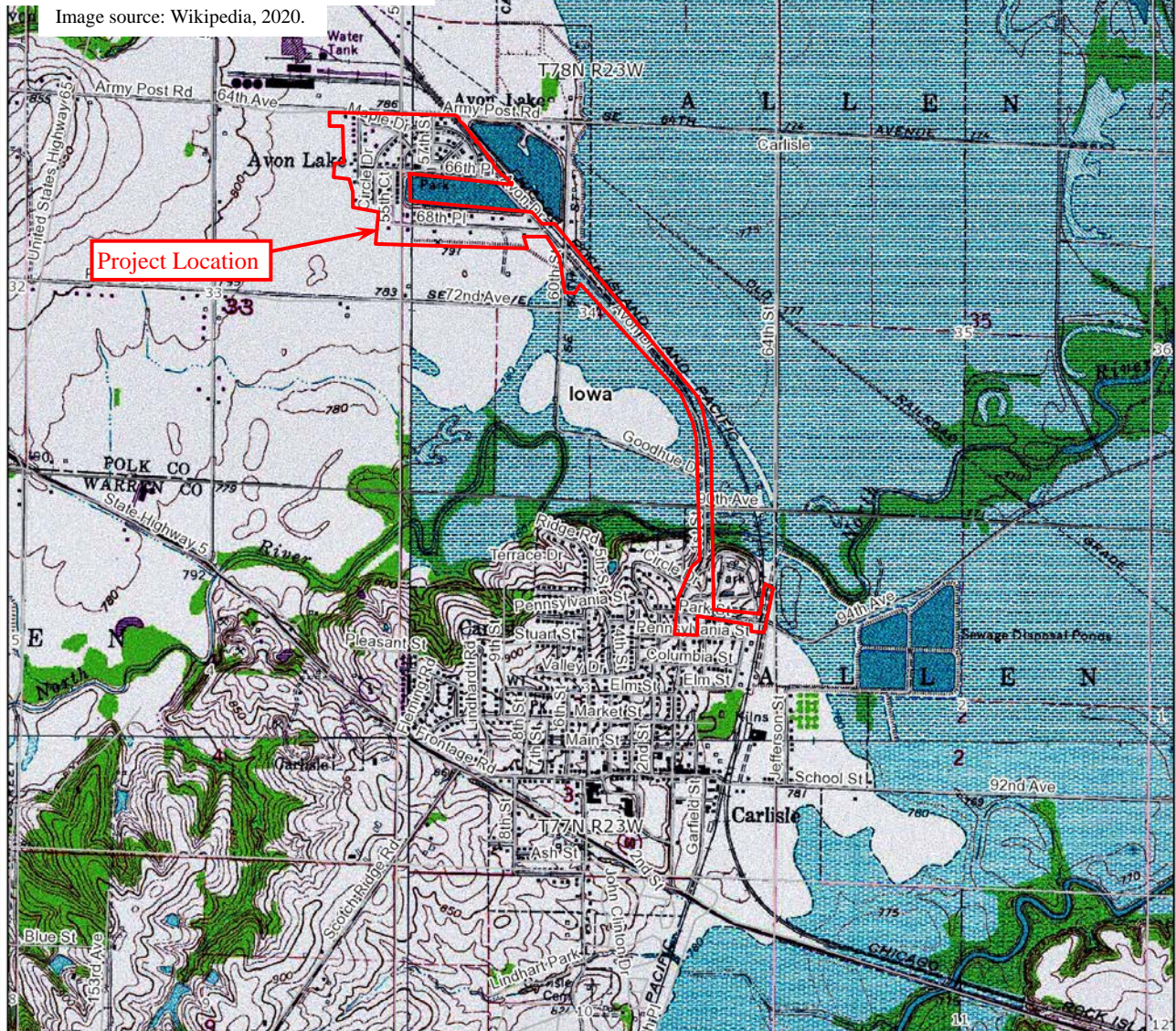


Image source: Wikipedia, 2020.



USGS Topographic Map

Carlisle Drinking Water Infrastructure Improvements
Carlisle, IA

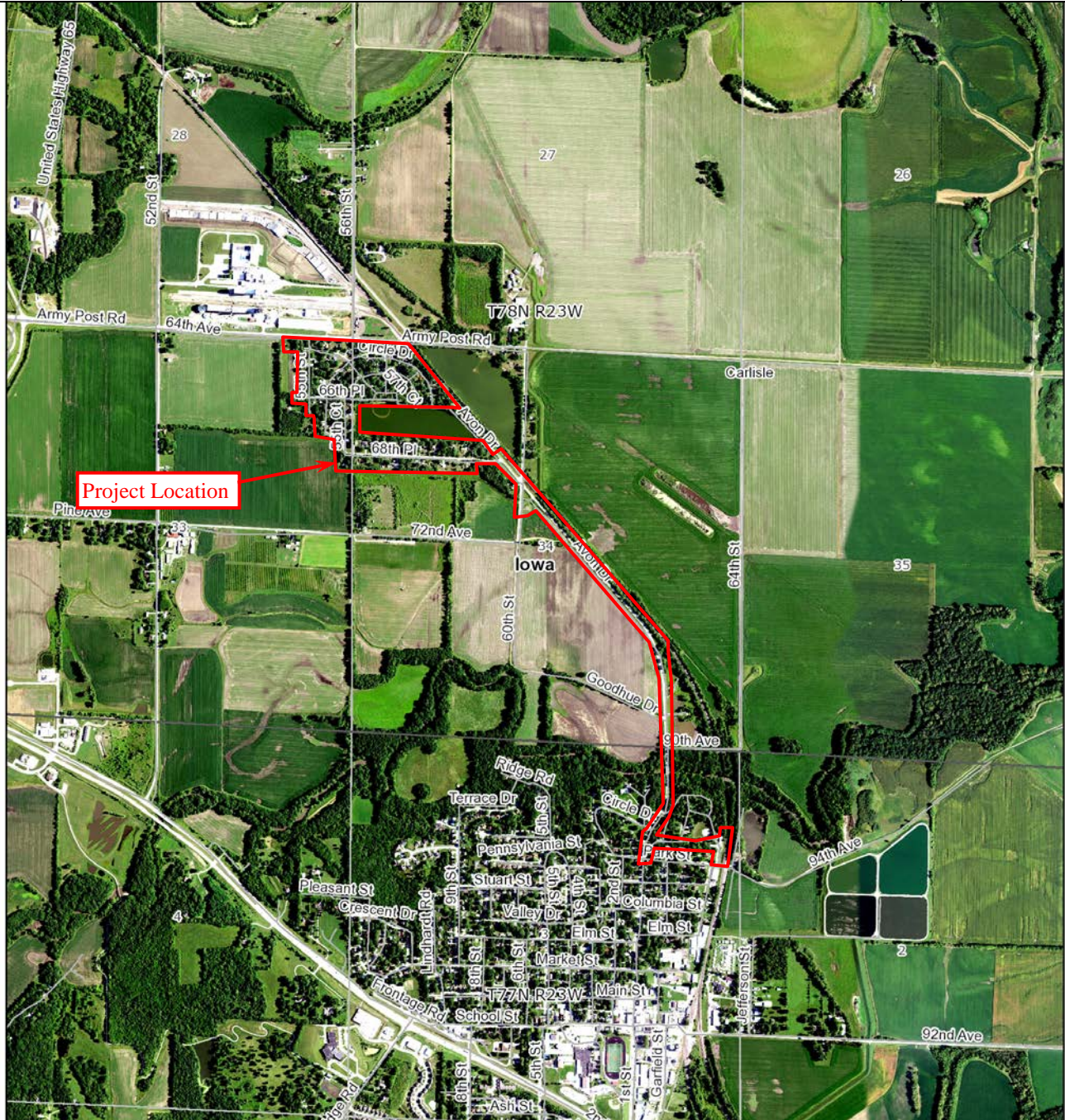


State Revolving Fund
502 East 9th Street
Des Moines, IA 50319-0034

Location information provided by FOX Engineering



North



Aerial Photograph

Carlisle Drinking Water Infrastructure Improvements
Carlisle, IA



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