

LIMITED ENVIRONMENTAL REVIEW

Project Identification

Project: Waverly Construction

Applicant: Greg Kempton, Mayor
Village of Waverly
201 W North St.
Waverly, Ohio 45690

Loan Number: FS390962-0009

Project Summary

The Village of Waverly in Pee Pee Township, Pike County has applied to Ohio EPA for financial assistance from the Water Supply Revolving Loan Account (WSRLA) to fund the construction of potentially two new raw water wells. The project is located at 9434 State Route 220 in Waverly, Ohio.

Ohio EPA anticipates awarding a WSRLA loan to the Village of Waverly in December 2018. The general project location within Pike County is identified in Figure 1. A Village of Waverly location map is provided in Figure 2, a project location map is identified in Figure 3, and a project plan map is identified in Figure 4.

The WSRLA program requires that a comprehensive environmental review be completed prior to the award of financial assistance. This Limited Environmental Review describes the project, the planning and analysis that were performed prior to the design and the potential for adverse environmental impacts during construction. Ohio EPA's environmental review has concluded that the proposed project will not result in significant adverse environmental impacts. More detailed information follows in the sections below.

History and Existing Conditions

The Village of Waverly's existing water treatment facility has three wells which pump water from the Teays Valley Aquifer. The location of the existing wells is in an area alongside the Scioto River and is susceptible to flooding. When flooding occurs, tests show that flood water infiltration occurs within the wells and has necessitated the Village's water department to issue boil alert notices to the entire village over multiple days. When these notices are issued, they place a tremendous hardship, not only on the Village residents, but also on several businesses that rely on the Village's water. Furthermore, as a groundwater facility, the occurrence of surface waters entering production wells leads to the reclassification of the facility as "under the influence," which the Village is not capable of treating. According to an August 2002 Source Water Assessment Report, the Village

received a “high-risk” determination of susceptibility to contamination and was required to produce a protective strategy plan to reduce the risk of contamination. Therefore, the Village plans to construct two new wells outside of the current well field. By installing new wells, the Village can decommission the current wells if they cannot be rehabilitated. It also brings the facility back into compliance.

Project Description

Several sites were evaluated for placement of new wells. Unfortunately, the water treatment plant is situated in such a way that locating a new well close to the plant is not possible; the treatment plant is surrounded by a flood zone to the south (the current well field), a wastewater treatment plant to the north/north-east, a railway to the east and industrial facilities to the west.

Two new proposed wells (Well #5 (B) and Well #6 (C)) will be drilled for the existing Village of Waverly’s Public Water System. The new well locations were chosen for their relative proximity and availability to the existing water treatment plant; therefore, less transmission line is needed to bring water to the plant for treatment. The proposed well sites will comply the EPA requirements in accordance with Ohio Administrative Code (OAC) Chapter 3745-9 and conditions set forth in the Village’s Well Site Approval letter, dated July 16, 2018. Surface disturbance will be limited to an access road and a construction area approximately 75 feet by 75 feet, large enough to accommodate a drill rig. Additionally, a raw water service line will be installed along State Route 220 toward the water treatment plant. The well heads will be elevated approximately 10 feet above ground level and have a platform surrounding them that is approximately 5-foot by 5-foot.

Implementation

Project Cost	\$1,056,939
Principal Forgiveness	\$440,000
WSRLA Principal Loan Amount	\$616,939
WSRLA Loan Term	30 years
WSRLA Interest Rate	0%
Market interest rate	For March 3.53%
WSRLA Savings through Reduced Rate	\$388,229
Combined WSRLA Savings with Rate and Principal Forgiveness	\$828,229

Public Participation

As part of its State Environmental Review Process, Ohio EPA's Division of Environmental and Financial Assistance (DEFA) will post this LER and Finding of No Significant Impact to its web page located under the heading "WSRLA Documents Available for Review and Comment" at:

<https://epa.ohio.gov/defa/ofa#169638770-wsrla-documents-for-review-and-comment>

Ohio EPA is unaware of any public opposition to this project.

Conclusion

Ohio EPA conducts environmental reviews of all projects prior to awarding WSRLA financing. The proposed project meets the project type criteria for a LER; namely, it is limited to the construction of new ancillary facilities adjacent or appurtenant to an existing facility. Furthermore, the project meets the other qualifying criteria for a LER; specifically, the proposed project:

- has no significant adverse environmental effect, as the planning activities for the project identified no potential adverse impacts on the quality of the human environment or on sensitive resources such as surface waters, floodplains, wetlands, state or federally designated wildlife areas, state or federally-designated wild, scenic or recreational rivers, riparian areas, prime or unique agricultural lands, aquifer recharge zones, archaeological or historically significant sites, or threatened or endangered species.
- does not require extensive specific impact mitigation, as the proposed project is in a fallow agricultural field currently vegetated in grasses. And although the project area contains one small historic-era archaeological site, it is not eligible for the National Register of Historic Places. And while the nearby Herbert Lillich House is a good example of the architectural style of the late 19th or early 20th centuries, its position relative to former gravel pits, railroad lines, the Village's wastewater treatment plant and industrial buildings, the farmstead no longer maintains its integrity of setting or feeling, and thereby, the proposed project will have no adverse effect on historic properties.
- has no adverse effect on high value environmental resources as no high-quality resources are present in the project area.
- represents a long-term solution to an identified water quality threat (infiltration of raw water wells by infiltration of flood waters) currently facing the water system, the cost of which is reasonable considering monetary and non-monetary factors.
- is not controversial, as no public opposition has been expressed.

- does not create a new, or relocate an existing, discharge to surface or ground waters, since the proposed project does not involve a point source discharge.
- will not result in substantial increases in the volume of discharge or loading of pollutants from an existing source or from new facilities to receiving waters, since the proposed project does not involve wastewater treatment or discharge.
- will not provide capacity to serve a population substantially greater than the existing population, since the proposed project is intended to improve water quality; and not to provide water to additional users.

The planning activities for the project have identified no potentially significant short- or long-term adverse impacts on the quality of the human environment or on sensitive resources. The project will benefit water quality and the Village of Waverly by eliminating the risk of well contamination via surface water infiltration through the construction of new water wells outside the flood zone. Therefore, the public water supply and health of the Village of Waverly residents is not at risk from surface water contamination.

Contact info

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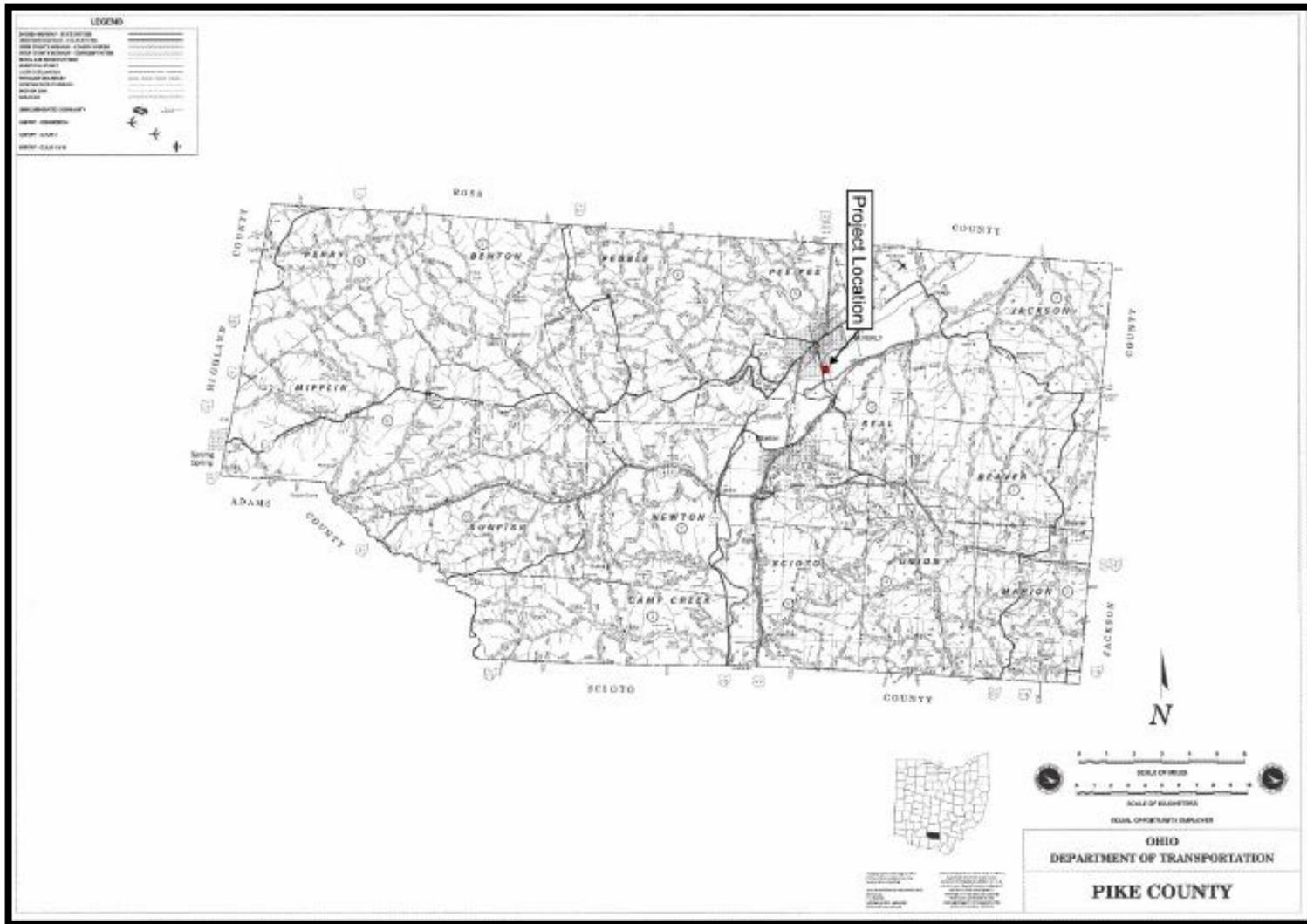


Figure 1. Pike County, Ohio location map

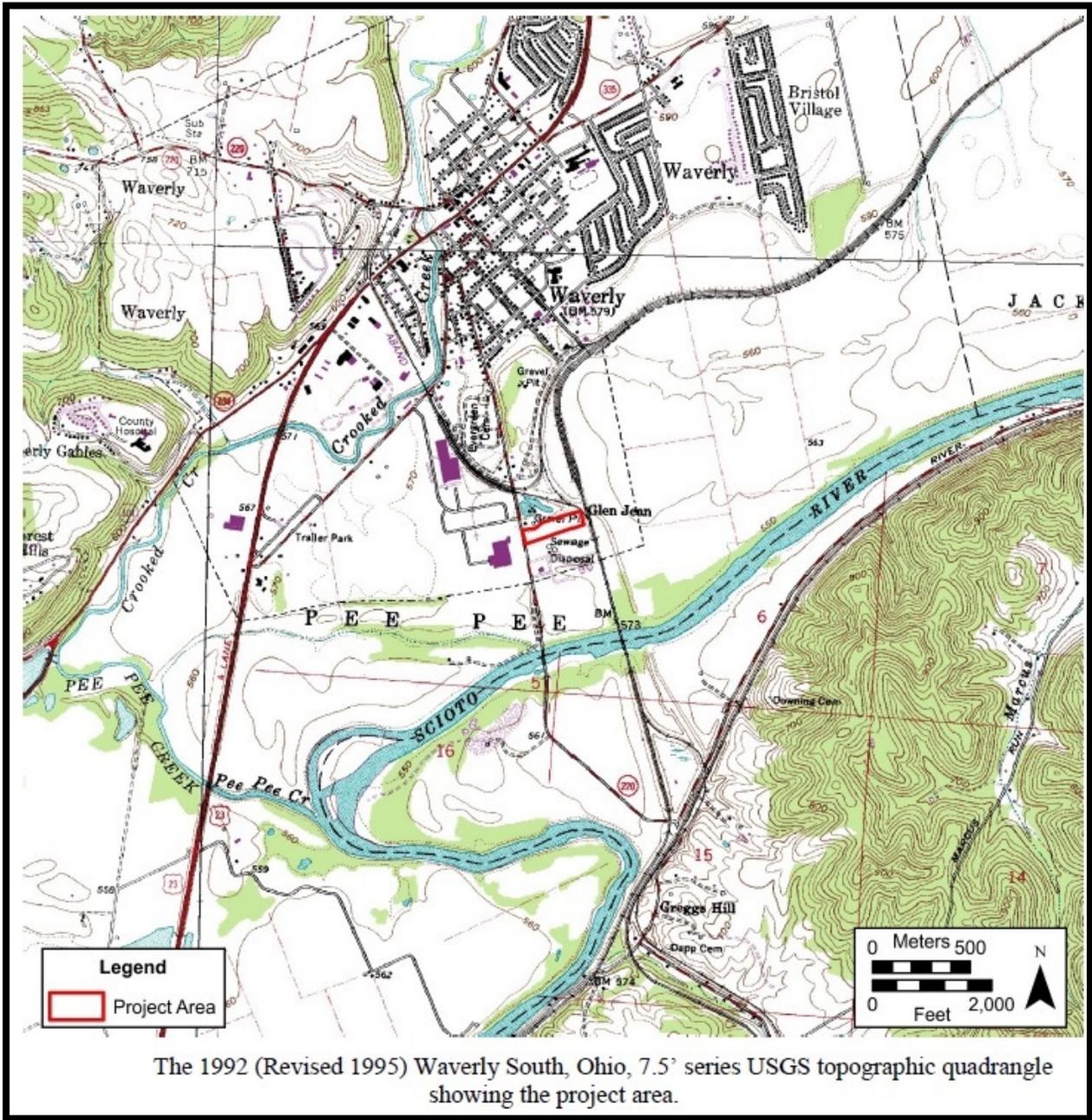


Figure 2. Village of Waverly location map



2015 Google aerial photograph showing the project location.

Figure 3. Waverly Project Location Map



Figure 4. Waverly Project Plan Map