



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
LANSING



LIESL EICHLER CLARK
DIRECTOR

November 19, 2020

TO: All Interested Citizens, Organizations, and Government Agencies

SUBJECT: FINDING OF NO SIGNIFICANT IMPACT
City of Cadillac, Wexford County
East 44 Road Well Field and Transmission Main
Drinking Water State Revolving Fund Project No. 7510-01

The purpose of this notice is to seek public input and comment on a preliminary decision by the Michigan Department of Environment, Great Lakes, and Energy (EGLE) that an Environmental Impact Statement (EIS) is not required to implement recommendations discussed in the attached Environmental Assessment of a water supply project plan submitted by the applicant mentioned above.

HOW WERE ENVIRONMENTAL ISSUES CONSIDERED?

Part 54, Safe Drinking Water Assistance, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, being Sections 324.5401 to 324.5418 of the Michigan Compiled Laws Annotated, requires EGLE to evaluate all environmental implications of a proposed water supply project. EGLE has done this by incorporating a detailed analysis of the environmental impact of the proposed alternatives in its review and approval process. A project plan was prepared by the applicant and reviewed by the State. EGLE has prepared the attached Environmental Assessment and found that the proposed project does not require the preparation of an EIS.

WHY IS AN EIS NOT REQUIRED?

Our environmental review concluded that no significant environmental impacts would result from the proposed action. Any adverse impacts have either been eliminated by changes in the project plan or will be reduced by the implementation of the mitigative measures discussed in the attached Environmental Assessment.

HOW DO I GET MORE INFORMATION?

A map depicting the location of the proposed project is attached. This information is also available on our website at www.michigan.gov/DWSRF under "Related Links." The Environmental Assessment presents additional information on the project, alternatives that were considered, impacts of the proposed action, and the basis for our decision. Further information can be obtained by calling or writing one of the contact people listed below.



HOW DO I SUBMIT COMMENTS?

Any comments supporting or disagreeing with this preliminary decision should be submitted to me at EGLE, Constitution Hall, P.O. Box 30457, Lansing, Michigan 48909-7957. We will not take any action on this project plan for 30 calendar days from the date of this notice in order to receive and consider any comments.

WHAT HAPPENS NEXT?

In the absence of substantive comments during this period, our preliminary decision will become final. The applicant will then be eligible to receive loan assistance from this Agency to construct the proposed project.

Any information you feel should be considered by EGLE should be brought to our attention. If you have any questions, please contact Mr. David J. Worthington, the project manager, at 517-554-1835, or email worthingtond@michigan.gov, or you may contact me. Your interest in this process and the environment is appreciated.

Sincerely,

Kelly Green, Administrator
Water Infrastructure Financing Section
Finance Division
517-284-5433

Attachment

DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
Drinking Water State Revolving Fund
City of Cadillac, Wexford County
Environmental Assessment
November 2020

PROJECT IDENTIFICATION

Applicant: City of Cadillac
Address: 200 North Lake Street
Cadillac, Michigan 49601

Authorized Representative: Mr. Marcus Peccia, City Manager
mpeccia@cadillac-mi.net

Project Number 7510-01

The city of Cadillac (Cadillac) is applying for a Drinking Water State Revolving Fund (DWSRF) loan to finance the construction of a new well field, three wells, and related transmission water main. The project will enable Cadillac to reach full capacity and eliminate the remaining wells at the 8th Street Well Field that are threatened with contamination from nearby industry. See Figure 1 for a site location map of the study area and proposed second well field site on East 44 Road.

The proposed project can be summarized as follows:

- Three municipal wells at a capacity of 1,000 gallon-per-minute (gpm) each;
- Three new well houses;
- Water department maintenance buildings (service/office/garage/storage);
- Two 16-inch diameter water transmission mains and a 12-inch diameter water main.

These improvements are estimated to cost \$10,484,500. Water rates for a typical customer are expected to increase approximately \$2.00 per month. Construction is scheduled to begin in April 2021 and be completed by May 2022.

PROJECT BACKGROUND

Cadillac's existing 8th Street Well Field has become surrounded by a developed industrial area. Wells in this well field are close in proximity to each other and located in the same aquifer. Groundwater contamination by trichloroethene was discovered in Well No. 7, and that well was removed from service in 1994. The well field no longer complies with the Act 399 requirements for a 2,000-foot isolation distance from areas of known contamination. As a result, Cadillac began evaluating options to replace the 8th Street Well Field starting in the early 2000's. The initial step toward this goal was the development of the Crosby Well Field in 2012, financed by the DWSRF, and located on the east side of the city. This field has three wells and is currently operational along with a portion of the 8th Street Well Field. Two additional wells in the 8th Street Well Field were abandoned upon completion of the Crosby Road project, leaving three wells operational. Construction of a new well field would allow for the removal and abandonment of the remainder of the 8th Street Well Field currently at risk of contamination. Between the Crosby Road Well Field and the proposed new well field described within, Cadillac's existing well capacity can be maintained along with the required firm capacity.

PROPOSED PROJECT

A. Project Need/Justification

Reliable operation of Cadillac's well fields and water distribution lines within the service area has a direct impact on the health and safety of Cadillac's citizens and visitors. Reliability and downtime during repairs of deficient water mains and wells affects the ability to provide safe drinking water to the system users. The three wells located at the 8th Street Well Field pose the greatest health risk to Cadillac's water customers due to potential contamination. A 16-inch diameter transmission main is needed to connect the new well field to the water distribution system along White Pine Trail to Sunnyside Drive.

In addition, a second 16-inch diameter transmission main from the existing Crosby Road well field is required to provide reliability and redundancy as the entire field would be out of service if the existing main were to break or require maintenance.

Finally, a new 12-inch diameter water main on Lincoln Street between Carmel and Warren Streets is needed to fully loop and close a gap in the water distribution system and to enable additional flow to reach the storage tank via the Crosby Road transmission main.

B. Description of the Proposed Project

Construction of three wells at East 44 Road is proposed. This option includes constructing and equipping three new wells, building well houses and an interconnecting water main, as well as erecting new headquarters and material/equipment storage facilities for the Cadillac Water Department. The required capacity needed to allow abandonment of the 8th Street Well Field is approximately 3,000 gallons per minute. Based on the hydrogeological report, preliminary well testing, and the previous construction of the Crosby Road Well Field, the aquifer will support three 1,000 gallons per minute wells with the desired redundancy and firm capacity needed by Cadillac.

An interconnecting 16-inch diameter transmission main is proposed. For reliability, a 16-inch transmission main at the Crosby Well Field site is included. To provide a loop to transport additional water to the water storage tower, a 12-inch diameter main on Lincoln Street will be constructed.

See Figure 2 for a location map of the proposed water system improvements and Figure 3 for a proposed site plan of the East 44 Road Well Field.

C. Alternatives Considered

No-action Alternative

Department of Environment, Great Lakes and Energy (EGLE) has assigned the existing wells at the 8th Street Well Field a high geologic sensitivity vulnerability rating due to the industrial land uses in the area. Two contamination plumes have been identified in the area and place the wells at risk. If no action is taken, the existing 8th Street Well Field will continue to see increased threat of contamination. The proposed water mains are essential to enable the water system to function at 100% reliability and efficiency. The No Action alternative is not a feasible option.

Regional Alternative

No other water supply systems are close nor able to provide the water supply needs of the City. Interconnection with other systems is not a feasible option.

D. Project Cost and Implementation

Table I provides an estimate of the budget for the proposed project:

Table I. Project Budget Summary

Project Budget Item	Cost Estimate
Administration and Legal	\$41,500
Architectural and Engineering Fees & Inspection	\$1,013,000
Construction	\$8,600,000
Contingencies	\$830,000
Total (rounded up to nearest \$5,000)	\$10,485,000

Cadillac intends to finance the proposed project with a DWSRF loan for a 30-year term at an interest rate of 2.25 percent. The DWSRF is co-administered by EGLE and the Michigan Finance Authority. Water rates for a typical customer can be expected to increase approximately \$2.00 per month from the current rate of \$19.60 per month.

An Act 399 Water Systems and an Act 327 Water Withdrawal Permit will be required to construct the project. A Michigan Department of Transportation right-of-way permit is necessary for East 44 Road water main construction.

IMPACT OF PROJECT

A. Water Quality Impacts

Improved reliability and safety of Cadillac's drinking water system is the primary beneficial long-term water quality impact of this project for area residents and users. Hydrogeological characteristics of the aquifer have been carefully analyzed by EGLE to ensure no quantitative or qualitative harmful effects from the water withdrawal at the proposed new well field will occur.

B. Construction Impacts

Typical impacts of noise, dust and traffic will be encountered should this project proceed to construction. These effects are unavoidable but temporary until construction is completed. Impacts will be minimized by adherence to contract requirements for soil erosion and sedimentation control. Traffic control measures will be used to minimize traffic impacts.

The State Historical Preservation Office and Tribal Historic Preservation Officers have reviewed the proposed project for impacts on historical, archeological, religious, and culturally significant resources. It has been determined that the project is unlikely to disturb sites of historic or cultural importance or artifacts of archaeological significance.

A biological review utilizing input from the United States Fish and Wildlife Service and Michigan Natural Features Inventory indicated that endangered or threatened species or their habitat are unlikely to be encountered within the zone of the project.

C. Socioeconomic Impacts

Construction will create temporary jobs for contractors and their employees. Users of the system would help defray the costs of the improvements. Having a safe, reliable water system will be necessary for any economic growth in the city.

PUBLIC PARTICIPATION

Cadillac held numerous public meetings for years leading to this proposal. In addition, three public hearings have been held to encourage public input and comment. Due to Covid-19, the most recent hearing was held virtually on June 15, 2020 after being advertised in the *Cadillac News*, on May 7, 2020. No opposition to the proposed project was received from the public. There were no public comments at the most recent hearing or during the 30-day public comment period. Cadillac adopted the selected alternative in the DWSRF Project Plan on June 15, 2020.

REASONS FOR CONCLUDING NO SIGNIFICANT IMPACTS

Negative effects from construction of a new well field on East 44 Road and the accompanying transmission main are temporary. This project is considered necessary due to the threat of contamination to the remaining wells of the city's 8th Street Well Field. The project's long-term positive impact is the provision of safe, reliable drinking water to residents and visitors of the area.

Questions regarding this Environmental Assessment should be directed to:

Ms. Kelly Green, Administrator
Water Infrastructure Financing Section
Finance Division
Michigan Department of Environment, Great Lakes, and Energy
P.O. Box 30457
Lansing, Michigan 48909-4957
Telephone: 517-284-5433
E-Mail: Greenk1@michigan.gov



Figure 1 Site Location Map

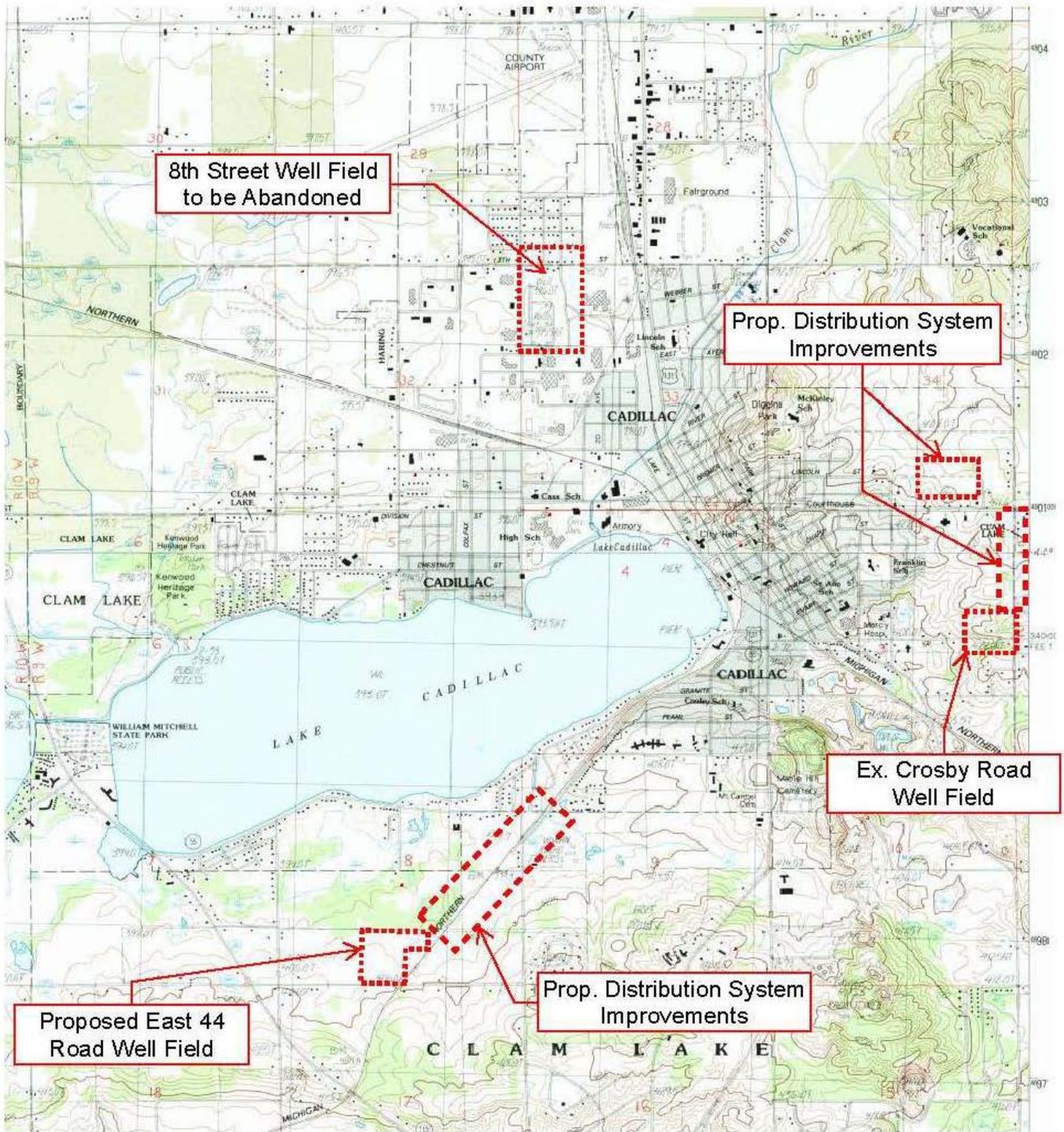


Figure 2
Proposed Water System Improvements

