



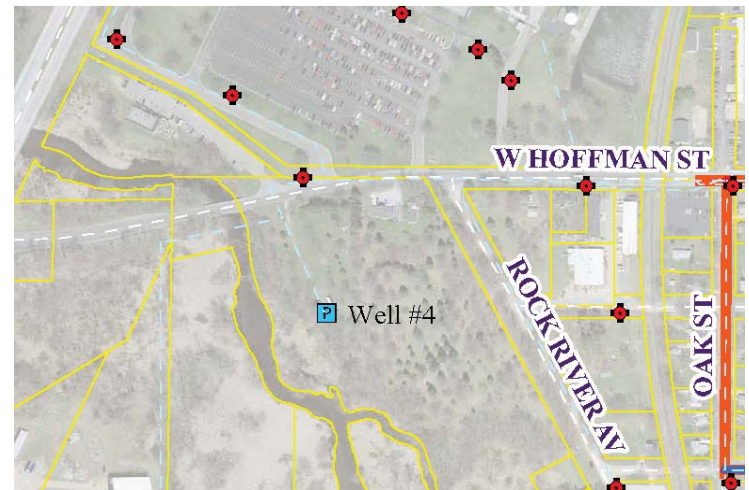
17. View of Eighth St. North from City Limits-093



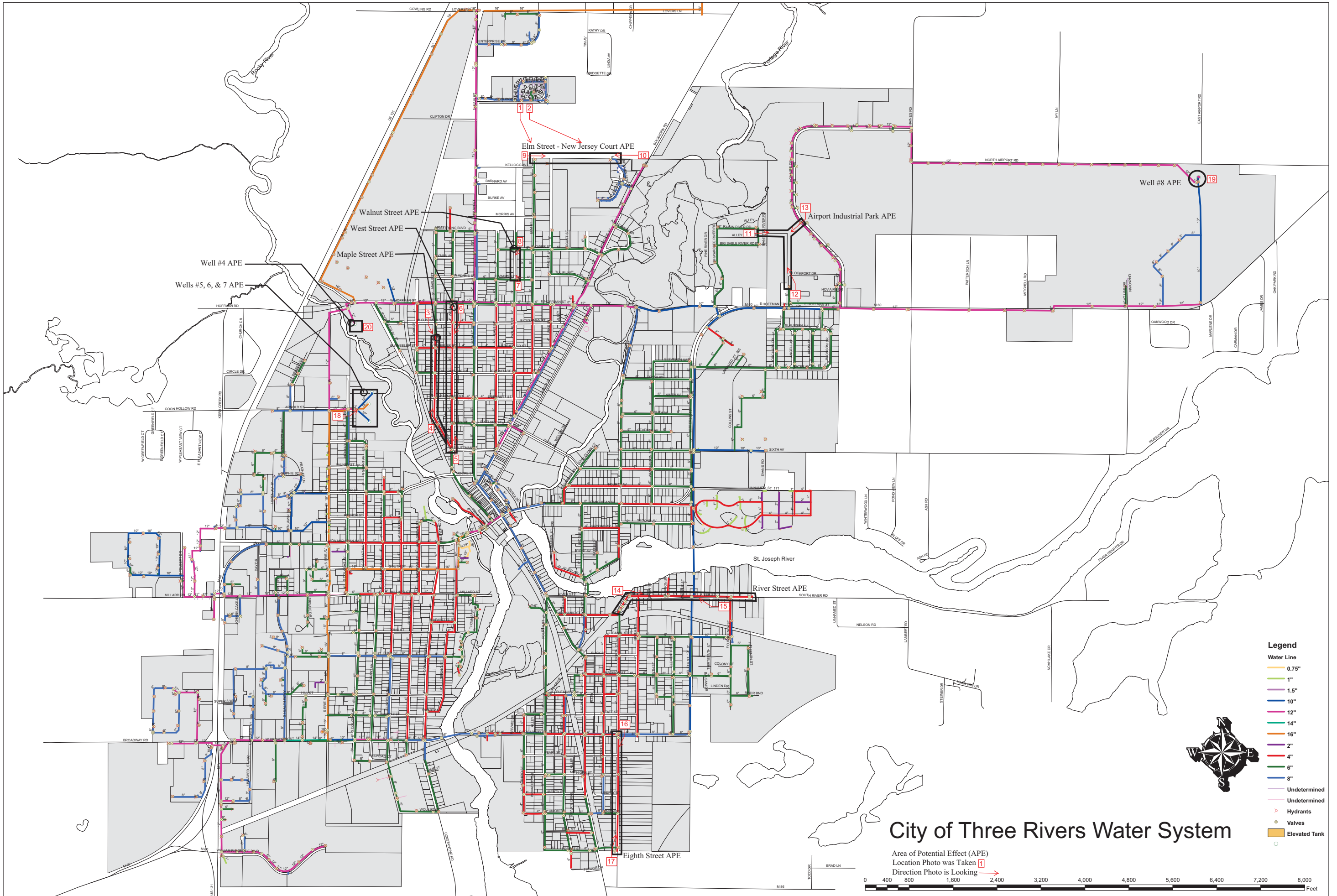
18. View of Wells #5, 6, & 7, East from Douglas Ave.-095



19. Aerial View of Well #8

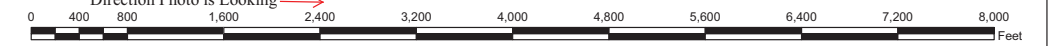


20. Aerial View of Well #4



# City of Three Rivers Water System

Area of Potential Effect (APE)  
 Location Photo was Taken [1]  
 Direction Photo is Looking →







# Jones & Henry Engineers, Ltd.

4791 CAMPUS DRIVE, KALAMAZOO, MICHIGAN 49008 • 269/353-9650  
www.jheng.com FAX • 269/353-9651

March 10, 2010

U.S. Fish and Wildlife Service  
East Lansing Field Office  
2651 Coolidge Road  
East Lansing, MI 48823

Subject: City of Three Rivers  
2010 Drinking Water Revolving Fund Project Plan  
487-6381.001

Dear Administrator:

We wish to advise you that City of Three Rivers (City) is planning work on their Drinking Water System at multiple locations throughout the City.

Jones & Henry Engineers, Ltd. has been hired by the City to prepare a Project Plan which must be submitted to MDEQ by May 1, 2010 as part of the requirements for receipt of a low-interest loan from the State Revolving Fund.

The complete project includes multiple sites throughout the Drinking Water System. The name, location, and a general description of each project are listed below. Attached are two maps, one is the USGS map of the City of Three Rivers and the surrounding area, and the second is a street and water main map. Both maps show the general location and area of potential effect (APE) of each project. All of the projects will require land disturbance.

- A. Well #8 – located in the northeast corner of the City at the airport –The building at this location will receive modifications in order to accommodate the additional equipment required for disinfection and possibly the addition of equipment for iron removal.
- B. Airport Industrial Park – located at the west end of the airport – The City plans to complete a water main loop from the existing apartment buildings and mobile home community to the 12-inch water main in the industrial park drive.
- C. Elm Street – New Jersey Court – located near the north side of the City – The City plans to complete a water main loop between the end of New Jersey Court and Elm Street.
- D. Walnut Street – located near the north side of town – The City plans to place a new water main in Walnut Street between Flower Street and Adams Street and abandon the existing water main in a backyard easement.
- E. West Street – located on the northwestern side of the City – The City plans to remove and replace the existing 4-inch water main between Hoffman Street and Prutzman Street.
- F. Maple Street – located on the northwestern side of the City – The City plans to remove and replace the existing 4-inch water main between Cushman Street and Prutzman Street.
- G. Wells #5, 6, & 7 – located on the west side of the City – The City plans to add disinfection and water treatment to their wells. A new building will be added to this well field to accommodate the disinfection and water treatment.
- H. Well #4 – located on the west side of the City and northeast of wells #5, 6, & 7 – The City plans to add disinfection and water treatment at this location also. A new building will also be constructed at this site.



U.S. Fish and Wildlife Service  
487-6381.001  
March 10, 2010  
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- I. River Street – located on the southeast side of the City – The City plans to remove and replace the existing 4-inch water main between Mechanic Street and the east City limits.
- J. Eighth Street – located on the southeast side of the City – The City plans to remove and replace the existing 4-inch water main between Broadway Street and the south City limits.

Please send any comments you may have to my attention. Thank you for your interest in this matter.

Sincerely,

JONES & HENRY ENGINEERS, LTD.

*Amy Roth*

Amy Roth, P.E.  
Project Engineer

Enc. USGS Map  
Street and water main map  
Endangered species list  
Aerial of wells #5, 6, & 7  
No adverse effect letter



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March 10, 2010

Endangered Species Specialist  
MDNR Wildlife Division  
P.O. Box 30180  
Lansing, MI 48909

Subject: City of Three Rivers  
2010 Drinking Water Revolving Fund Project Plan  
487-6381.001

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Endangered Species Specialist  
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JONES & HENRY ENGINEERS, LTD.

Amy Roth, P.E.  
Project Engineer

Enc. USGS Map  
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Endangered species list  
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No adverse effect letter

**County Distribution of Michigan's Federally  
Threatened, Endangered, Proposed, and Candidate Species**  
For more information about threatened and endangered species in Michigan, contact the  
U.S. Fish & Wildlife Service office at 2651 Coolidge Road, Suite 101,  
East Lansing, Michigan 48823 (517/351-6274)

Downloaded 03/10/2010

County	Species	Status	Habitat
St. Joseph	Indiana bat ( <i>Myotis sodalis</i> )	Endangered	Summer habitat includes small to medium river and stream corridors with well developed riparian woods; woodlots within 1 to 3 miles of small to medium rivers and streams; and upland forests. Caves and mines as hibernacula.
St. Joseph	Copperbelly water snake ( <i>Nerodia erythrogaster neglecta</i> )	Threatened	Wooded and permanently wet areas such as oxbows, sloughs, brushy ditches and floodplain woods
St. Joseph	Eastern massasauga ( <i>Sistrurus catenatus catenatus</i> )	Candidate	
St. Joseph	Mitchell's satyr butterfly ( <i>Neonympha mitchellii mitchellii</i> )	Endangered	Fens; wetlands characterized by calcareous soils which are fed by carbonate-rich water from seeps and springs
St. Joseph	Eastern prairie fringed orchid ( <i>Plantathera leucophaea</i> )	Threatened	Mesic to wet prairies and meadows

March 10, 2010  
Jones & Henry Engineers, Ltd.  
Attention: Amy Roth  
4791 Campus Drive  
Kalamazoo, MI 49008

Dear U.S. Fish and Wildlife Service, East Lansing Michigan Field Office:

We are requesting concurrence from the U.S. Fish and Wildlife Service that the proposed City of Three Rivers Drinking Water System Improvements is *not likely to adversely affect* Indiana Bat's wooded stream corridor, Copperbelly water snake's wooded permanently wet areas, or Eastern massasauga's habitat. The proposed project is located in St. Joseph County, Michigan. The project is requesting funding from the Michigan Department of Natural Resources and Environment Drinking Water Revolving Fund.

The proposed project involves improvements or new construction of water treatment facilities at the City's well fields located east of the intersection of Arnold Street and Douglas Avenue, and on the south side of Hoffman Street, east of the Rocky River. These projects are located next to, but do not directly impact the low lands adjacent to the Rocky River. The remainder of the project includes water main replacement located under existing rights-of-way, and a new or expanded building at well #8, which is located at the municipal airport.

We carefully reviewed your agency's Section 7 Consultation website on March 10, 2010 for a list of species and critical habitat that "may be present" within the project area. There are three species that may be present: Indiana Bat, Copperbelly water snake, and Eastern massasauga.

The Indiana Bat, which may be present in the trees surrounding this area, could be impacted by the construction noise and activity that will occur during the construction process. They may also be impacted by additional traffic from the municipal workers who will be taking care of chemical monitoring and other treatment processes. No trees are planned for removal, so no direct impact is expected.

The Copperbelly water snake may be living in grassy areas where a new or expanded treatment building will be placed. The square footage of the building is expected to be no more than 3,000 square feet and is planned to be placed on the highest ground available. Construction noises and activity may also impact the snake, but they are planned to be short term impacts. No direct impact of the habitat is expected.

The Eastern massasauga snake may also be living in grassy areas where a new or expanded treatment building will be placed. Construction noises and activity may also impact the snake, but they are planned to be short term impacts. No direct impact of the habitat is expected.

For these reasons, we conclude that the City of Three Rivers Drinking Water System Improvements project is not likely to adversely affect the Indiana Bat, Copperbelly water snake, or Eastern massasauga. We request your concurrence with our determination.