

Introduction

Tyco evaluated long-term water supply alternatives for the Town of Peshtigo near the Tyco Fire Technology Center on Industrial Parkway South.

The initial evaluation was completed in accordance with Wisconsin Department of Natural Resources (DNR) criteria and identified eight alternatives.

Evaluation Criteria

Each alternative was evaluated against criteria approved by the DNR.

- Long-term susceptibility
- Quality of water
- Quantity of water
- Technical feasibility
- System redundancy
- Anticipated public acceptance
- Timing to implement
- Legal and regulatory complexity
- Operation and maintenance
- Monitoring, reporting, compliance
- Operation and maintenance cost

Recommended Alternative

Statement regarding recommended alternative to be determined with input from DNR.

Alternatives Evaluated

- 1) *City of Marinette Water System Expansion*
Extend the City of Marinette municipal water lines into the Town of Peshtigo. Residents become water customers of the City of Marinette operated and maintained municipal water system.
 - 2) *City of Marinette Water Expansion to Town Sanitary District*
Create a new drinking water Sanitary District operated and maintained by the Town of Peshtigo. Drinking water would be purchased from the City of Marinette.
 - 3) *Treatment Systems on Private Wells*
Provide a private Point of Entry Treatment (POET) system on each impacted well. This is considered a short-term water supply solution by DNR.
 - 4) *Private Special Casing Deep Wells*
New private deep wells extending several hundred feet to a water source with a special well casing. DNR has expressed uncertainty that deep wells would be able to provide safe drinking water into the future.
 - 5) *Town of Peshtigo Public Water System*
Create a new public water system operated and maintained by the Town of Peshtigo. Water would be obtained from new special casing deep wells or the Bay of Green Bay and treated to meet public drinking water standards. DNR has expressed uncertainty that deep wells would be able to provide safe drinking water into the future.
 - 6) *Combination of Water Supply Methods*
Provide a combination of the various options specific to each affected well such as: POET System on existing wells or connecting to a new public water system.
- 7A) *City of Peshtigo Water Expansion to Town Sanitary District*
Create a new drinking water Sanitary District with a water storage tank and water transmission main operated and maintained by the Town of Peshtigo. Drinking water would be purchased from the City of Peshtigo.
- 7B) *City of Peshtigo Water System Expansion*
Extend the City of Peshtigo municipal water lines into the Town of Peshtigo. Residents become water customers of the City of Peshtigo operated and maintained municipal water.

Alternatives Comparison Table

Alternative		Pros	Cons
1	City of Marinette Water System Expansion	<ul style="list-style-type: none"> • Technically feasible • Long-term system use and adaptive to changes • Long-term quantity and quality of water supply • City's distribution system operation and maintenance (O&M) • Redundant source of water • Time to implement 	<ul style="list-style-type: none"> • City's legal and regulatory requirements and agreements
2	City of Marinette Water Supply Expansion to Town Sanitary District	<ul style="list-style-type: none"> • Technically feasible • Long-term system use and adaptive to changes • Long-term quantity and quality of water supply • Redundant source of water 	<ul style="list-style-type: none"> • Town's responsible for distribution system O&M • Town's legal and regulatory complexity • Town's responsible for monitoring, reporting, and compliance • Time to implement longer than Alternative 1
3	Treatment Systems on Private Wells	<ul style="list-style-type: none"> • Time to implement 	<ul style="list-style-type: none"> • Short-term solution per DNR • Homeowner's well and treatment system O&M • No redundant source of water
4	Private Special Casing Deep Wells	<ul style="list-style-type: none"> • Time to implement 	<ul style="list-style-type: none"> • Long term technical feasibility of deep wells not being affected can not be guaranteed • Homeowner's well and treatment system O&M • No redundant source of water
5	Town of Peshtigo Public Water System	<ul style="list-style-type: none"> • Technically feasible • Long-term system use and adaptive to changes • Long-term quantity and quality of water supply • Redundant source of water 	<ul style="list-style-type: none"> • Town owns and operates municipal water system and is responsible for distribution/treatment system O&M • Town's legal and regulatory complexity • Town's responsible for monitoring, reporting, and compliance • Time to implement longer than Alternative 1
6	Combination of Water Supply Methods		<ul style="list-style-type: none"> • Not technically feasible • High level of O&M complexity • High level of legal and regulatory complexity
7A	City of Peshtigo Water Supply Expansion to Town Sanitary District		
7B	City of Peshtigo Water System Expansion		

Next Steps

- 30-Day Public Comment Period - August 20, 2019 to September 18, 2019
- Public Meeting September 18, 2019

FOR MORE INFO

(888) 626-3244

<http://dnr.wi.gov/topic/contaminants/marinette.html>