Commonwealth of Massachusetts

Executive Office of Energy and Environmental Affairs
Massachusetts Environmental Policy Act (MEPA) Office

Environmental Notification Form

For Office Use Only
EEA#: 16019
MEPA Analyst: Alex Strysky

The information requested on this form must be completed in order to submit a document electronically for review under the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Dry Bridge Road Water Treatment Plant		
Street Address: 240 Union Street, Westfield, MA 01085		
Municipality: Westfield	Watershed: Westfield	
Universal Transverse Mercator Coordinates:	Latitude: 42.13477° N Longitude: 72.72007° W	
Estimated commencement date: Fall 2019	Estimated completion date: Fall 2020	
Project Type: New Construction Water Treatment Plant and Pipeline	Status of project design: 60% complete	
Proponent: City of Westfield Department of Public Works		
Street Address: 28 Sackett Street		
Municipality: Westfield	State: MA	Zip Code: 01085
Name of Contact Person: Tracy Adamski, AICP		
Firm/Agency: Tighe & Bond	Street Address: 53 Southampton Road	
Municipality: Westfield	State: MA	Zip Code: 01085
Phone: 413-572-3256	Fax:413-562-5317	E-mail: TJAdamski@tighebond.com

Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
☐Yes ☒No

If this is an Expanded Environmental Notification Form (ENF) (see 301 CMR 11.05(7)) or a Notice of Project Change (NPC), are you requesting:

a Single EIR? (see 301 CMR 11.06(8))	☐Yes ☒No
a Special Review Procedure? (see 301CMR 11.09)	☐Yes ☒No
a Waiver of mandatory EIR? (see 301 CMR 11.11)	☐Yes ☒No
a Phase I Waiver? (see 301 CMR 11.11)	☐Yes ☒No

(Note: Greenhouse Gas Emissions analysis must be included in the Expanded ENF.)

Which MEPA review threshold(s) does the project meet or exceed (see 301 CMR 11.03)?

301 CMR 11.03(4)(b)(4) – Construction of a new drinking water treatment plant with a capacity of 1,000,000 or more gpd.

Which State Agency Permits will the project require?

The project requires the following State Agency Permits:

- *MassDEP Technical Review and Permitting for the WTP Process as follows:*
  - *BRP WS 24 - Approval to Construct a Water Treatment Facility*
  - *Water Supply Facility Checklist for Potassium Hydroxide (KOH) or Sodium hydroxide (NaOH) for Permit Review/Approval*
  - *Water Supply Facility Checklist for Hypochlorination Using Sodium hypochlorite (NaOCl) or Calcium Hypochlorite (Ca(OCl2) for Permit Review/Approval*
  - *Water Supply Facility Checklist for Various Forms of Phosphate Compounds Used for Corrosion Control and Sequestering for Permit Review/Approval*
- *Superseding Order of Conditions (if local Order of Conditions is appealed)*
- *US EPA Clean Water Act - NPDES General Permit for Stormwater Discharge from Construction Activities*

Attachment E includes a list of the local, state, and federal permits and approvals required for this project.

Identify any financial assistance or land transfer from an Agency of the Commonwealth, including the Agency name and the amount of funding or land area in acres:

No state funding is anticipated to be acquired for the proposed project.

Summary of Project Size & Environmental Impacts	Existing	Change	Total
LAND			
Total site acreage	112.4		
New acres of land altered[1]		4.89	
Acres of impervious area	0	1	1
Square feet of new bordering vegetated wetlands alteration		0	
Square feet of new other wetland alteration		9,165	
Acres of new non-water dependent use of tidelands or waterways		0	
STRUCTURES			
Gross square footage[2]	1,010	5,800	6,810
Number of housing units	0	0	0
Maximum height (feet)	0	39.5	39.5
TRANSPORTATION			
Vehicle trips per day	0	8	8
Parking spaces	0	4	4
WASTEWATER			
Water Use (Gallons per day)	0	1,000	1,000
Water withdrawal (GPD)	4,000.000	0	4,000,000
Wastewater generation/treatment (GPD)[3]	0	1,000	1,000
Length of water mains (miles)[4]	0	1.76	1.76
Length of sewer mains (miles)[5]	0	0.04	0.04

Has this project been filed with MEPA before?
☐ Yes (EEA #_____) ☒ No

Has any project on this site been filed with MEPA before?
☐ Yes (EEA #_____) ☒ No

Notes:

1 New acres of land altered includes both temporary and permanent alterations as follows:
- Temporary and permanent disturbance at the Water Treatment Plant = 3.32 acres
- Temporary disturbance at Well No. 2 = 0.05 acres
- Temporary disturbance for new utility infrastructure including work in roadways = 0.2 acres

2 The Project Site includes the existing Well No. 1 building (340 sf) and Well No. 2 building (670 sf). The WTP is proposed to be approximately 5,800 sf in area.

3 The estimated average daily flow for Sanitary Wastewater is 40 gpd. The estimated average daily flow for Process Wastewater is 915 gpd

4 Approximately 1.13 miles (5,980 lf) of new 12" raw water main and 0.45 miles (2,350 lf) of finish water main will be installed at the Project Site. Approximately 0.07 (380 lf) of 36" finish water main will be installed at the WTP.

5 0.04 miles (190 linear feet) of new force main being installed along Dry Bridge Road to discharge sanitary wastewater to Westfield's collection system.

GENERAL PROJECT INFORMATION – all proponents must fill out this section

PROJECT DESCRIPTION:

The City of Westfield Department of Public Works water supply includes two wells, Well No. 1 and Well No. 2, with a maximum daily withdrawal of 4 million gallons per day (MGD). The purpose of the project is to treat the raw water from these two wells to reduce Per- and polyfluoroalkyl substances (PFAS) in the City's drinking water. The project area is shown on Figure 1 in Attachment B.

Describe the existing conditions and land uses on the project site:

The project site is the City of Westfield Pond Brook Water Department Land with an address of 240 Union Street. The 112.4 acre parcel includes Well No. 1 to the north and Well No. 2 to the south. A city owned electric utility right-of-way runs along the western property boundary. The majority of the site is forested.

Figure 2 shows priority resources with respect to the project area. Portions of the Project Area are within Approved Wellhead Protection Areas (Zone I and Zone II). The site consists of water supply lands for the City of Westfield. Well No. 1 is located off of Holyoke Road on Number One Well Road, while Well No. 2 is located at the intersection of Union Street and Springdale Road. Both wells are identified in Figure 3 in Attachment B.

Figure 4 in Attachment B shows the existing land uses at the site. The parcel consists of approximately 112.4 acres of forested land bordered by Holyoke Road and residential housing to the north, Paper Mill Road to the east, Union Street to the south, and residential housing to the west. The current use for the property is water supply purposes.

Well No. 1 has a total pumping capacity of 1,400 GPM and an Approved Daily Pumping Volume of 2.002 MGD. Well No. 2 is approximately 0.75 miles southwest of Well No. 1 and has a total pumping capacity of 1,200 GPM and an Approved Daily Pumping Volume of 2.002 MGD. Westfield has been monitoring PFAS in Wells No. 1, 2, 7, and 8 since 2013. Wells No. 1 and 2 have had detections of 7 PFAS chemicals and Wells No. 7 and 8 have had detections of 6 PFAS chemicals. In May 2016, the EPA issued a new lifetime Health Advisory of 70 ng/L for combined PFOA and PFOS. In response, Westfield removed Well 7 and Well 8 from service in May 2016 due to the level of PFAS measured in the 2013 sampling results. Due to the proximity of Wells No. 1 and 2 to Wells No. 7 and 8, Westfield increased the frequency of testing for PFAS in Wells No. 1 and 2. Testing of the wells resulted in the removal of Well No. 2 from service due to PFAS prior to a temporary GAC treatment facility being constructed.

Additional information on the existing conditions at the site may be found in Section 2 of the Expanded Project Narrative included in Attachment A.

Describe the proposed project and its programmatic and physical elements:

The proposed project is the construction of a new Water Treatment Plant (WTP) to remove PFAS from two of Westfield's drinking water supply wells (Well No. 1 and Well No. 2) located on the same parcel.

A new 3.75 MGD WTP is being proposed. Treatment will include Granular Activated Carbon (GAC) and chemical treatment. Chemicals used will be sodium hydroxide, sodium hypochlorite and zinc orthophosphate. Rooms within the proposed WTP include chemical storage, filter room, laboratory, conference room, offices, and bathrooms. Figures included in Attachment C, Preliminary Design Plans, show conceptual architectural elevations for the WTP.

The WTP will require installation of approximately 9,300 linear feet (lf) of new ductile iron (DI) transmission mains, installation of approximately 1,500 lf of gas service line, installation of approximately 190 lf of sewer mains to serve the WTP, along with abandonment and modification to existing systems.

The new WTP will include a new driveway, which will allow for access to the WTP by Water Department staff as well as GAC and chemical delivery trucks. Additional landscaping and fencing will be used to improve the aesthetics of the WTP and to reduce noise impacts to the nearby neighborhood. Proposed fencing will include chain link fence with twisted ends up. Chain link gates will be used at the new entrance to the WTP to

prevent unauthorized vehicular access. Construction of the WTP is estimated to be completed and placed on-line by Fall 2020.

Potential impacts to the built environment and natural resource environment resulting from the construction process will largely be temporary in nature and will be mitigated. Some impacts to the built environmental will be permanent and associated with the new building and parking area for the WTP. Construction mitigation measures include traffic management, construction noise control, stormwater runoff and sediment migration control, dust control to protect air quality, protection of public shade trees, and the appropriate management of excavated soils. These measures are discussed in greater detail in Section 5 of the Project Narrative.

Additional project information including an alternatives analysis and assessment of impacts and proposed mitigation measures is included in Attachment A.

NOTE: The project description should summarize both the project's direct and indirect impacts (including construction period impacts) in terms of their magnitude, geographic extent, duration and frequency, and reversibility, as applicable. It should also discuss the infrastructure requirements of the project and the capacity of the municipal and/or regional infrastructure to sustain these requirements into the future.

Describe the on-site project alternatives (and alternative off-site locations, if applicable), considered by the proponent, including at least one feasible alternative that is allowed under current zoning, and the reasons(s) that they were not selected as the preferred alternative:

An extensive alternatives analysis was completed for the key components for the Project. The alternatives are summarized below. All alternatives focused on use of the City-owned 112.4 acre site. Additionally, new utilities are required to connect Well No. 1 and Well No. 2 in all site alternatives and associated temporary resource area impacts are limited to the two well sites. Therefore, impacts associated with well upgrades and new utilities are approximately equivalent across the site alternatives and were not included in the alternatives analysis.

Site Alternative No. 1 – Treatment Facility at Well No. 1
This alternative site is located at the northern end of the Project Site, near Well No. 1. This area is located within Zone I and Zone II Wellhead Protection Areas, 200-foot Riverfront Area, Bordering Land Subject to Flooding, and the 100-foot Buffer Zone and is bound as follows:

- West by Sandy Hill Road
- East by a City-owned parcel and a privately-owned parcel
- North by Holyoke Road
- South by Springdale Pond

Site Alternative No. 2 – Treatment Facility at Well No. 2
This alternative site is at the southern end of the Project Site, near Well No. 2. This area is located within Zone I and Zone II Wellhead Protection Areas, 200-foot Riverfront Area, Bordering Land Subject to Flooding, and the 100-foot Buffer Zone and is bound as follows:

- West by Springdale Road
- South by Union Street
- East by Pond Brook
- North by the existing wellhouse

Site Alternative No. 3 – Treatment Facility Located Along Dry Bridge Road (PREFERRED ALTERNATIVE)
This alternative site is located in the north western portion of the site, off of Dry Bridge Road, outside of

wetland resource areas, and is bound as follows:

- West by Dry Bridge Road
- East by Springdale Pond
- North by privately owned parcels along Sandy Hill Road
- South by forested land within the parcel

No build

- Under this scenario, a new WTP would not be constructed to treat PFAS. This is an unacceptable alternative as it does not protect public health and therefore was not selected.

Alternative No. 3 ranked the highest among the three alternatives as it allows the most space for work, and has the least potential environmental impacts.

Section 3 of the Expanded Project Narrative in Attachment A provides additional details regarding the alternative analysis, including the selected Preferred Alternative, and provides information on why other evaluated alternatives were not considered viable for the project.

NOTE: The purpose of the alternatives analysis is to consider what effect changing the parameters and/or siting of a project, or components thereof, will have on the environment, keeping in mind that the objective of the MEPA review process is to avoid or minimize damage to the environment to the greatest extent feasible. Examples of alternative projects include alternative site locations, alternative site uses, and alternative site configurations.

Summarize the mitigation measures proposed to offset the impacts of the preferred alternative:

Please refer to the discussion of construction methodology and mitigation in Section 5 of the attached ENF narrative.

If the project is proposed to be constructed in phases, please describe each phase:

Not applicable – all components of the project will be constructed concurrently.

AREAS OF CRITICAL ENVIRONMENTAL CONCERN:
Is the project within or adjacent to an Area of Critical Environmental Concern?
☐Yes (Specify_____)
☒No
if yes, does the ACEC have an approved Resource Management Plan? ___ Yes ___ No;
If yes, describe how the project complies with this plan.

Will there be stormwater runoff or discharge to the designated ACEC? ___ Yes ___ No;
If yes, describe and assess the potential impacts of such stormwater runoff/discharge to the designated ACEC.

RARE SPECIES:
Does the project site include Estimated and/or Priority Habitat of State-Listed Rare Species? (see http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/priority_habitat/priority_habitat_home.htm)
☐Yes (Specify: See Below) ☒No

Figure 5 in Attachment B shows the Estimated and Priority Habitat areas and Certified and Potential Vernal Pools in Westfield. There are no Priority Habitats for Rare Species, Estimated Habitats for Rare Wildlife, or Certified Vernal Pools in the project area.