



**Record No: WP-25-30**

Wetlands Permitting

Status: Active

Submitted On: 10/7/2025

**Primary Location**

124 LAKE ST  
Coventry, CT 06238

**Owner**

COVENTRY TOWN OF  
1712 MAIN ST COVENTRY, CT  
06238

**Applicant**

James Drumm  
 jdrumm@coventry-  
ct.gov

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Applicant/Owner Information: Please note that "?" bubbles throughout the application provide additional helpful information when hovered over.

Applicant Information

Applicant's Association to Owner:\*

Owner

Applicant Business Name (if applicable)

Town of Coventry

Owner Name

Town of Coventry

Additional Information

Additional Agent, Engineer, Contractor Information (if applicable):

GZA Environmental, Ben Rach, is the Town's Agent on this application.

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## Wetlands Permitting

Type of Wetlands Application:\*

As-of-Right Application

Type of Activity\*

Other

## Activity/Project Information

Description of Proposed Activity(s):\* 

Design and eventual installation of a surface water circulator to aid in reducing bacteria levels in the Patriots Park Beach area. A floating platform is to be installed outside the swimming area and held in place by 4 moorings.

Distance in Feet from Regulated  
Wetlands/Watercourse:\*

1

Square feet of Wetlands, Watercourse and/or  
Regulated Area Impacted:

< 2 sq ft to set moorings

Describe measures (if any) that will be taken to minimize the impact on wetlands, watercourses, and the regulated areas:

limited watercourse bottom connection (i.e. moorings)

Any additional and/or pertinent information:

very limited impact to surrounding areas due to activities. A dilution was calculated to demonstrate the effect of water circulation to areas outside Patriots Park and can be provided or presented as needed.

Is any portion of the property on which the regulated activity is proposed located within 500 feet of an adjoining municipality?\*

No

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## Acknowledgments

I HEREBY ACKNOWLEDGE AND CERTIFY THAT I'M PERSONALLY FAMILIAR WITH ALL THE INFORMATION PROVIDED IN THIS APPLICATION AND THAT ALL STATEMENTS AND REPRESENTATIONS MADE ARE TRUE TO THE BEST OF MY KNOWLEDGE. I FURTHER CERTIFY THAT I AM AWARE OF THE PENALTIES FOR OBTAINING A PERMIT THROUGH DECEPTION OR THROUGH INACCURATE OR MISLEADING INFORMATION.\*



The undersigned electronic signature hereby grants permission to this Agency and its Agent to conduct any necessary inspections of this property, at reasonable times, both before and after the permit in question has been granted by the Agency/Agent.\*



I agree that my electronic signature below warrants the truth of all statements contained herein and in all supporting documents according to the best of the Agent &/or Owner(s) knowledge and belief, and that it is equivalent to a handwritten signature and is binding for all purposes related to this transaction.\*

Benjamin Rach  
Oct 7, 2025



| Estimated Material Costs       |                    |
|--------------------------------|--------------------|
| Materials Subtotal             | \$9,950.00         |
| Labor Costs                    |                    |
| Labor to Construct and Install | \$8,550.00         |
| <b>Estimated Total Cost</b>    | <b>\$18,500.00</b> |

\* Price does NOT include electrician costs

## Grid Powered Circulator

- 6-ft x 8-ft Raft
- Automatic Timer – Set to 4 Hours Run Time
- Two 30lb thrust Minn Kota Motors
- 6V supplying 30A at the raft
- Four 75lb Pyramid Moorings
- Solar Powered Marine Warning Light
- Stow and Go Dock Box

## Assumptions

- GZA to supply and install in-water equipment
- Coventry to deploy and remove after initial installation
- Coventry's electrician responsible for supply and install:
  - Grid power to the circulator raft.
  - Control Panel with step down converter, timer and other electrical equipment
    - GZA can provide recommendations if needed





# Town of Coventry

Water Pollution Control Authority



DATE: December 11, 2025

TO: Coventry Inland Wetlands Agency

FROM: Mike Ruef, WWTP Operator

RE: E. Coli levels Patriots Park Beach

Inland Wetlands Agency members, you inquired about leaking sewers causing E. Coli contamination at Patriots Park beach.

The sewer main that runs under Patriots Park is not leaking. This section of pipe was inspected with special robotic video cameras on April 19, 2021. Even though the pipes were found to be in good to excellent condition we decided to proactively 'line' the inside of the pipe with a structural epoxy-resin product before it ever started to leak. Furthermore, these sewer lines are not pressurized. If they did ever leak hydraulic pressure outside the pipe is greater and would push lake water / groundwater **into** the sewer line. This is why we lined the pipe, to prevent future infiltration of groundwater into our sewer system. After lining is complete the pipe is video inspected again to verify proper installation and adhesion of the liner. The installation went well and passed all inspections.

Here's a short video from the installer that demonstrates the cured in place pipe lining process much better than I could describe it:

<https://www.youtube.com/watch?v=okstE4bSVmk>

E. coli contamination in the lake does not come from leaks in the Town's sewer system. E. coli could potentially come from sewage overflows out of manholes caused by blocked pipes. We have a regular cleaning and inspection program to remove debris (mainly cooking grease and flushable wipes) before they can cause a complete pipe blockage. Since I began working here in 2008 **we have not had any manhole overflows**. I'm not aware of any manhole overflows in the history of Coventry's sewer system.

Please let me know if you have any questions.

Mike Ruef  
WWTP Operator  
Town of Coventry WPCA  
1712 Main Street  
Coventry, CT 06238  
860-531-2913  
[mruef@coventry-ct.gov](mailto:mruef@coventry-ct.gov)





PATRIOTS PARK – COVENTRY WPCA SEWER MAIN ROUTING  
 1" = 50'

MAP REFERENCES:

1. TOWN OF COVENTRY 2016 AERIAL PHOTOGRAPHY – MARCH 2016.
2. PLAN & PROFILE, EASEMENT, STATION 128+00 TO 136+50, INTERCEPTOR SEWER, TOWN OF COVENTRY CONNECTICUT, DATE: FEB. 1985, SCALE: 1" = 40', SHEET 4 OF 23
3. PLAN & PROFILE, EASEMENT, STATION 120+00 TO 128+00, INTERCEPTOR SEWER, TOWN OF COVENTRY CONNECTICUT, DATE: FEB 1985, SCALE: 1" = 40', SHEET 5 OF 23

T:\E-FILES\Lake Street\patriots\124 - Patriots Park\2023 - MASTER PLAN\ENGINEERING\DWG\_10/30/2025 11:31.dwg - ANI.DWG To PDF.pc3

# Coventry Lake

## Swimming Water Monitoring Program

Coventry Inland Wetlands Agency

December 17, 2025

Robert Miller, MPH, RS

Director of Health

Eastern Highlands Health District



# Presentation Topics

- ▶ Monitoring program objective
- ▶ Sampling protocol
- ▶ Beach closure/advisory protocol
- ▶ Beach closure data
- ▶ Proposed Water Circulator

**State of Connecticut  
Guidelines  
for  
Monitoring Swimming Water  
and  
Closure Protocol**



STATE OF CONNECTICUT  
DEPARTMENT OF PUBLIC HEALTH  
410 Capitol Avenue  
Hartford, CT 06134-0308

Raul Pino, M.D., M.P.H.  
Commissioner

STATE OF CONNECTICUT  
DEPARTMENT OF ENERGY &  
ENVIRONMENTAL PROTECTION  
Bureau of Water Protection and Land Reuse  
79 Elm Street  
Hartford, CT 06106-5127

Robert J. Klee  
Commissioner

March 2016

# Monitoring program

- ▶ Program objective
  - ▶ Monitoring water quality in *public swimming areas protects public health* by detecting contamination early, preventing waterborne illness, guiding timely closures or advisories, and identifying and mitigating pollution sources.
- ▶ Sampling protocol
  - ▶ Weekly sampling during swimming season
  - ▶ Ten (10) locations
  - ▶ CT DPH Lab analysis
  - ▶ Action level

# Closures/Advisories

- ▶ Indicator organism
  - ▶ E. coli - organism purpose
  - ▶ Probable sources
  - ▶ Influencing factors
  - ▶ Estimated illnesses
- ▶ Closures/advisories protocol
  - ▶ Action level exceedance
  - ▶ Inspection/resample
  - ▶ Closure recommendation
  - ▶ Notify public
  - ▶ Closure lifted



# Coventry Lake Swimming Areas

Lisicke Beach

Water Front Heights

Oak Grove

Water Front Park

Gerald Avery Shores

Lakewood Heights

Lakeview Terrace

Waterfront Manor

Patriots Park

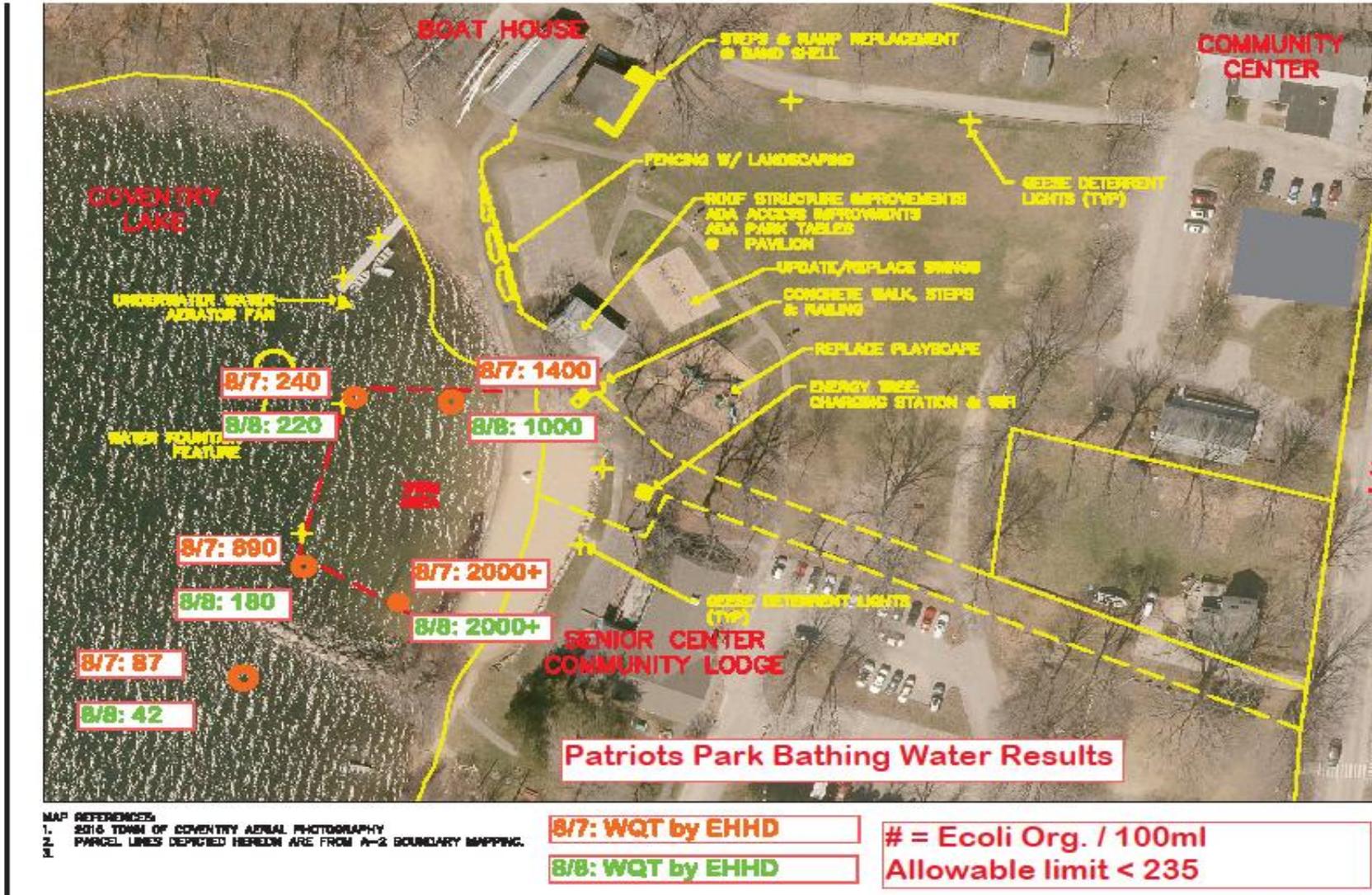
Hemlock Point



# Number of Beach Closure/Advisory Days

|                      | 2006     | 2007     | 2008     | 2009     | 2010     | 2011     | 2012     | 2013     | 2014     | 2015     | 2016     | 2017     | 2018     | 2019     | 2020     | 2021     | 2022     | 2023     | 2024     | 2025      |
|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Lisicke              | 2        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 1        | 0        | 0         |
| Waterfront Hts       | 1        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 1        | 0        | 0        | 0         |
| Oak Grove            | 0        | 0        | 1        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| Waterfront Park      | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| Gerald Avery Sho     | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| Lakewood Heights     | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| Lakeview Terrace     | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0         |
| Waterfront Mano      | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 1        | 0        | 0        | 0        | 5        | 0        | 0         |
| <b>Patriots Park</b> | <b>1</b> | <b>1</b> | <b>4</b> | <b>1</b> | <b>1</b> | <b>3</b> | <b>2</b> | <b>3</b> | <b>1</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>1</b> | <b>3</b> | <b>2</b> | <b>8</b> | <b>4</b> | <b>2</b> | <b>24</b> |
| Hemlock Point        | NA       | 0        | 0        | 0        | 0         |

# Sample Results - 8/7/25 & 8/8/25



# Proposed Water Circulator

- ▶ Installation recommended
- ▶ Reduction in number of closure days/service improvement
- ▶ Reduction in risk of illness among swimmers
- ▶ Risk to swimmers outside of designation bathing area

# Questions?

Robert Miller, MPH, RS

Director of Health

860-429-3325

[MillerRL@ehhd.org](mailto:MillerRL@ehhd.org)

