CONNECTICUT DEPARTMENT OF PUBLIC HEALTH
DRINKING WATER SECTION
410 CAPITOL AVENUE, MS #51WAT
P.O. BOX 340308
HARTFORD, CT 06134-0308

SOURCE ABANDONMENT PERMIT APPLICATION

This application is for a permit under Section 25-33k of the Connecticut General Statutes for a water company to abandon any existing or future source of water supply. The applicant must provide the department with sufficient information to verify that the source will not be needed for present or future water supply, is consistent with the water company's water supply plan, if so required, and will not be needed by the company in an emergency. This form is designed to supply the department with the basic information necessary to evaluate the permit request. Applicants are encouraged to provide any other information they feel will lead to a full understanding of the proposed abandonment. The applicant will be notified if additional information is required.

A separate application must be submitted for each source of supply proposed for abandonment. The department must be notified pursuant to Section 25-33l of the Connecticut General Statutes of any source, potential source or abandoned source proposed for sale. No agreement to sell such source may be entered into without first allowing for other water companies to exercise their option to buy.

I. IDENTIFICATION OF COMPANY AND SOURCE PROPOSED FOR ABANDONMENT

A. Name of water company: The Metropolitan District (CT0640011)

B. Principal contact: Susan Negrelli

C. Mailing address: 555 Main Street, Hartford CT 06103

D. Phone: (860) 278-7850 Ext. 3815

E. Source name: United States Army Corps of Engineers Colebrook River Lake

F. Source type:

- ☐ Reservoir
- ☐ Well
- ☐ Diversion
- ☒ Other: 10 BG Storage Volume

G. Source location (town name) Colebrook, CT - USGS Topo Tolland Ma 2021 - Attach. A
Attach USGS topographic map with source shown.

H. Source safe yield: None - Impossible to establish and therefore never approved

II. SUPPLY DATA

A. List all sources of supply available to the company, with their respective safe yields calculated based upon a critical dry period with a 1% chance of occurrence and considering any restrictions such as hydraulic constraints, system losses, treatment limitations, or interference. If this data is on file in a water supply plan filed pursuant to Section 25-32d-1 of the Regulations of Connecticut State Agencies reference applicable pages. Operating status should be noted as active or emergency.

Source	Safe Yield	Operating Status
MDC 2020 WSP - Reservoir Status on Page III-1		
MDC 2020 WSP - Safe Yield from Appendix III-3, Safe Yield Report		
MDC's approved safe yield is calculated based upon a multi year drought in the 1960's and is more		
conservative than the 1% drought requirement listed in this document.		
Barkhamsted Reservoir	Sec. 25-32d (e) MGD	- Active
Nepaug Reservoir	Sec. 25-32d (e) MGD	- Active
West Hartford/Bloomfield Reservoir 6	Sec. 25-32d (e) MGD	- Active
West Hartford Reservoir 5	Sec. 25-32d (e) MGD	- Active
Barkhamsted, Nepaug, Reservoir 6 & Reservoir 5 as a system - 77.1 MGD		
West Hartford Reservoir 2	- No Approved Safe Yield	- Active
West Hartford Reservoir 3	- No Approved Safe Yield	- Active
Lake McDonough	- No Approved Safe Yield	- Emergency
West Branch Reservoir	- No Approved Safe Yield	- Emergency
West Hartford Reservoir 1	- No Approved Safe Yield	- Inactive
Cold Brook Reservoir Glastonbury	- No Approved Safe Yield	- Abandoned

III. DEMAND DATA

The data provided in this section should include retail and wholesale demand. If this data is on file in a water supply plan filed pursuant to Section 25-32d-1 of the Regulations of Connecticut State Agencies, reference applicable pages. (mgd = million gallons per day)

A. Current system average daily demand: 46.4 MGD (2022), including wholesale mgd _____

B. Peak day demand: 65.3 MGD (2022), inclluding wholesale mgd _____

C. Projected average day demand in 5 years: 42.13 MGD (MDC) + 3.74 MGD (wholesale) = 45.87 MGD, page IV-24 2020 Water Supply Plan . mgd _____

D. Projected average day demand for 20 years: 39.40 MGD (MDC) + 3.74 MGD (wholesale) = 43.14 MGD, page IV-24 2020 Water Supply Plan . mgd

E. Projected average day demand for 50 years: 42.91 MGD (MDC) + 3.74 MGD (wholesale) = 46.65 MGD, page IV-24 2020 Water Supply Plan___ . mgd _____

IV. OTHER CONSIDERATIONS

A. Describe why this source is proposed for abandonment and reference any applicable sections in the water supply plan. The District is filing an abandonment permit for a 10 billion gallon storage volume in the USACE's Colebrook River Lake in Colebrook, Connecticut. This storage volume has never been utilized for drinking water supply, does not have a safe yield calculated or assigned and has never been included in the District's Margin of Safety (MOS) for water supply. The District's MOS is projected to remain above 1.50 for the 50 year planning horizon in the 2020 Water Supply Plan, page IV-33, indicating no need for this water storage area within the planning period. The USACE contract requires the District to reimburse USACE for 35% of its operating costs in addition to 35% of the cost of any capital improvements to the Colebrook River Lake facility. The annual O&M cost has varied over 6 fold from $130k in 2008 to $810k in 2018. This cost and risk is high for a water storage area that, at any given time and subject to the demands of the USACE and the state, may not hold any water at all. In addition, the cost to build infrastructure to connect this water storage area to the District's Barkhamsted Reservoir would require the construction of a tunnel at the cost of hundreds of millions of dollars and approval via a voter referendum. A previous referendum to fund the construction of such infrastructure failed in 1981. Lastly, the successful management of the West Branch of the Farmington River under the Wild & Scenic designation and the accompanying flow release regime has developed grass roots support from the citizens, towns, environmental groups and outdoor enthusiasts and it is unlikely that a diversion permit for the removal of water from the West Branch of the Farmington River for drinking water purposes would ever be granted.
In the event of an emergency, MDC will continue to have Lake McDonough, West Branch Reservoir and 3.5 BG of water in Colebrook River Lake available for MDC use. The remaining 3.5 BG volume in Colebrook River Lake is the compensatory volume provided to MDC by USACE due to bisection of West Branch Reservoir by the USACE flood control dam.

B. Describe how the source will be physically severed from the system and in the case of a well, action to be taken to abandon the well in accordance with Section 25-138-56 and 57 of the Regulations of Connecticut State Agencies.
There are no existing connections from Colebrook River Lake to the MDC's raw water supply system, so no physical abandonment work is required.

THIS APPLICATION IS MADE WITHOUT PREJUDICE TO THE CLAIMS OF THE METROPOLITAN DISTRICT SET FORTH IN ITS "PETITION FOR DECLARATORY RULING PURSUANT TO CONN. GEN. STAT. SEC. 4-176" DATED JUNE 14, 2022

V. APPLICANT'S SIGNATURE

Susan Negrelli

Name: Susan Negrelli

Title: Director of Engineering

Date: 4/21/23

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

TOLLAND CENTER QUADRANGLE
MASSACHUSETTS - CONNECTICUT
7.5-MINUTE SERIES

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid:Universal Transverse Mercator, Zone 18T
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, August 2018 - August 2018
Roads.....U.S. Census Bureau, 2018 - 2018
Names.....GNIS, 1974 - 2020
Hydrography.....National Hydrography Dataset, 2004 - 2021
Contours.....National Elevation Dataset, 2017
Boundaries.....Multiple sources; see metadata file 2018 - 2019

Wetlands.....FWS National Wetlands Inventory 2008 - 2010

MN GN
13°31' 240 MILS
1°18' 23 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID

SCALE 1:24 000
KILOMETERS 1 0.5 0 1 2
METERS 1000 500 0 1000 2000
MILES 1 0.5 0 1
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the

MASSACHUSETTS
QUADRANGLE LOCATION

1 Monterey
2 Otis
3 Blandford
4 South Sandisfield
5 West Granville
6 Norfolk

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
4WD
Local Connector
Local Road
Interstate Route
US Route
State Route

JPNO, US GS X24 K6 93 5