



The Metropolitan District
water supply • environmental services • geographic information

January 31, 2017

Mr. Eric McPhee
Supervisor, Source Water Protection Unit
Drinking Water Section
CT Department of Public Health
410 Capitol Avenue, MS#51 WAT
Hartford, Connecticut 06134

2018 FEB 20 PM 8:31
RECEIVED FOR RECORD
TORRINGTON TOWN CLERK

RE: MDC Watershed Protection Annual Report 2016

Dear Mr. McPhee:

The following are the results of the Metropolitan District's (MDC) 2016 Watershed Inspection Program for the Barkhamsted Reservoir, the Nepaug Reservoir, the West Hartford Reservoirs and Reservoir No. 6 public drinking water supply watersheds.

In 2016, an effort was made by our Watershed Inspector Spencer Killian to visit and inspect as many residences, businesses and farms within the watersheds as possible and to update the database. The number of inspections for 2016 was 2,698 as compared to the previous year, 2015, with 2655 inspections.

The Inspector begins his day by reporting his scheduled itinerary at the town hall in the respective town in which the surveys are to be performed. He then goes to the area to be inspected and conducts a survey of the properties. The Inspector checks the septic leach field and inquires when the tank was last pumped. He looks for septic overflows, excessive greening, odors, and other indications of septic failure.

When possible, information is also obtained on the type of heating sources, presence of above or below ground storage tanks, floor drains, or other discharge points, use and storage of chemicals, pesticides and fertilizers, and numbers and types of animals, if any, on the property. Other pollution-related issues such as illegal discharges, dumping and litter are also reported.

During the annual inspections, efforts are also made to visit each street on the watersheds. In particular, catch basins are inspected to detect odors that may indicate sewage accumulation, petroleum leaching, illegal chemical and/or trash dumping.

If a violation is found, the landowner is sent a letter explaining the nature of the violation by MDC's Natural Resources Administrator. Letters are also sent to the appropriate town and health district. The MDC works closely with the town and health district to correct

the problem. If needed, follow-up field visits are scheduled with the appropriate town and health district representatives. The Watershed Inspector monitors these sites on a regular basis until the problem is corrected.

The Farmington Valley Health District handles sanitary issues in the watershed towns of Avon, Barkhamsted, Hartland, New Hartford and Simsbury. The Torrington Area Health District covers the towns of Torrington, Harwinton and Winsted. The Bristol-Burlington Health District covers the Town of Burlington. The West Hartford-Bloomfield Health District covers West Hartford and Bloomfield. Violations that occur in Tolland and/or Granville, Massachusetts are referred to the Massachusetts DEP and area health agents.

The booklet, *"Clean Water and Your Health,"* was updated and distributed to watershed property owners and copies are left at the town halls. The booklet was initially developed by the Connecticut Section of the American Water Works Association's (AWWA) Source Water Protection Committee and it was last updated by MDC in 2014.

SUMMARY OF INSPECTIONS

A total of 2,698 **inspections** were conducted in 2016 including those in Massachusetts on the Barkhamsted Reservoir watershed. A summary of the results of these inspections can be found on the chart entitled, **"Total Inspections and Violations by Town for Year 2016"** which is attached to this report.

There were no watershed inspection violations reported in 2016. The nine violations reported in 2015 were successfully addressed. Significant progress was made on the clean-up of watershed properties having junk vehicles and accumulations of debris, trash, etc. We appreciate the assistance of town officials.

The total number of facilities (houses, structures, etc.) listed for inspection in MDC's Watershed Inspection database for each watershed town can be found on the summary chart entitled, **"Total Type of Facilities, Sanitary Systems, and UST's by Town,"** which is attached to this report.

ADDITIONAL WATERSHED PROTECTION PRACTICES

The District, through its Watershed Management Unit, works closely with watershed towns in both Connecticut and Massachusetts on land use planning issues potentially affecting our sources of supply. Watershed Management staff reviews development and other land use proposals that come before town Inland Wetlands and Planning and Zoning agencies. When appropriate, written comments and suggestions are submitted to the agencies involved. When necessary, Watershed Management staff attends commission meetings to explain concerns.

In 2016, written comments were submitted to the Town of New Hartford regarding the Carpenter Road Bridge replacement project, which crosses over the Nepaug River - the major tributary to the Nepaug Reservoir. This project is currently in progress and staff is monitoring. In addition, staff reviewed a proposal in Burlington for a 2-lot, 46.4 acre subdivision at 67 Nepaug Road.

In Connecticut all major streets and highways are posted with "Entering Watershed" or "Leaving Watershed" signs. When entering the watershed, the sign gives the mileage, for example "ENTERING PUBLIC WATER SUPPLY WATERSHED AREA NEXT XX MILES."

WATERSHED LAND PROTECTION

Permanently protecting additional water supply watershed land is one of the most important measures that can be taken to strengthen MDC's source water protection efforts. To this end, MDC implemented a land acquisition/protection program. No watershed land acquisitions were made in 2016, however efforts were made to do so. MDC's full-time police patrol assists in watershed protection efforts.

WATERSHED SAMPLING

Routine water sampling is undertaken by the Watershed Management Unit and analyzed by MDC's Water Analysis Laboratory. The District also maintains its program of special water sampling at key locations to better monitor changes in water quality. Sampling occurs in the watersheds seven days a week.

HAZARDOUS MATERIALS & SPILL CONTROL TRAINING

A hazardous materials and emergency spill control training session was conducted by Michael Callan of Callan and Company of Middlefield, CT at the MDC Barkhamsted Headquarters on October 28, 2016. The refresher course qualified 26 MDC personnel at the First Responders Operations Level 2 (OSHA 1910.120). First responders at this level are trained to take defensive actions in the event of a release in order to mitigate damage to the environment. Their function is to contain a release from a safe distance, keep it from spreading and prevent harmful exposures to human life.

MDC has two trailers for environmental spill response purposes for the Water Supply Division. Spill control supplies are stored at MDC's Colebrook work center in Colebrook, the Nepaug work center in Burlington (which is equipped with an emergency response trailer), the Barkhamsted Headquarters in Barkhamsted (also equipped with a trailer), and at the West Hartford Reservoirs and Reservoir No. 6 water treatment facilities. In addition, the Watershed Inspector carries spill control supplies in his vehicle, which are made available during emergencies if needed.

2016 Spills, Accidents or Related Events

- 01-25-2016 Barkhamsted, CT - Intersection of Route 318 & Beech Rock Road.
Pepsi Delivery Truck- ruptured engine lube oil line, 3 gallons of 40 wt oil spilled.
Removed oil from highway. No impact to watershed.
- 04-26-2016 New Hartford, CT - Route 219, 250 yds. north of MDC Richards Corner Dam.
Single Vehicle accident- struck embankment. No fluids released.
No impact to watershed.
- 04-29-2016 West Hartford, CT - Route 4 near MDC Reservoir #1 by "Minkus Gate."
Car shattered transmission housing, small quantity of transmission fluid spilled.
Removed fluid, no threat to watershed.
- 06-17-2016 New Hartford, CT - Intersection of Route 202 & Timberline Road.
Two vehicle accident - Dodge Caravan struck UPS truck in rear. Caravan spilled 5 gallons of engine coolant. Removed coolant from highway. No impact to watershed.
- 06-22-2016 Barkhamsted, CT - Route 219, 600 ft. East of Ratlum Road.
Two vehicle accident- PT Cruiser struck a guard rail and ricocheted into the opposing lane striking the side of a Ford Focus. The PT Cruiser spilled 5 gallons of engine coolant.
Removed fluid from highway, no impact to watershed.
- 07-05-2016 Canton, CT - Nepaug State Forest, Access Road.
Single vehicle fatal accident- Victim parked 2001 Ford Explorer and proceeded to inspect underneath vehicle. Apparently he engaged the transmission shift linkage and subsequently the vehicle rolled over his body, killing him. No impact to watershed.
- 07-20-2016 Torrington, CT - East Pearl Street, Ruwet Farm Property.
Single Vehicle accident- Subaru station wagon was left running in drive as driver exited. The vehicle traveled into a shallow ornamental pond submerging the engine compartment. No fluids spilled. No impact to watershed.
- 09-23-2016 Barkhamsted, CT - Route 318, 200 yards west of Beach Rock Road.
Single vehicle accident- Small sedan struck a telephone pole spilling 2 gallons of engine coolant. Removed coolant. No impact to watershed.

COMMITTEE INVOLVEMENT

The MDC's Natural Resources Administrator is an active member of the Source Water Protection Committee of the CT Section, American Water Works Association (AWWA).

The MDC Watershed Management staff also participates annually in the Connecticut Envirothon Program and provides training on forestry and watershed management to hundreds of participating high school students.

SUMMARY

The MDC sincerely appreciates the cooperation and assistance from local and state officials, as well as watershed landowners who help protect our drinking water supplies.

Sincerely,



Carol E. Youell

Natural Resources Administrator, MDC

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Pc: James M. Randazzo, Manager of Water Treatment, MDC
Spencer Killian, Watershed Inspector, MDC
✓ Chief Elected Officials, Watershed Towns
Bristol-Burlington Health District
Farmington Valley Health District
Torrington Area Health District
West Hartford-Bloomfield Health District



Total Inspections And Violations by Town For Year: 2016

Town	Inspection Count	Violations									
		1	2	3	4	5	6	7	8	9	10
AVON	51	0	0	0	0	0	0	0	0	0	0
BARKHAMSTED	103	0	0	0	0	0	0	0	0	0	0
BLOOMFIELD	13	0	0	0	0	0	0	0	0	0	0
BURLINGTON	208	0	0	0	0	0	0	0	0	0	0
EAST HARTLAND	72	0	0	0	0	0	0	0	0	0	0
HARWINTON	41	0	0	0	0	0	0	0	0	0	0
NEW HARTFORD	1524	0	0	0	0	0	0	0	0	0	0
SIMSBURY	11	0	0	0	0	0	0	0	0	0	0
TOLLAND	95	0	0	0	0	0	0	0	0	0	0
TORRINGTON	276	0	0	0	0	0	0	0	0	0	0
WEST GRANVILLE	164	0	0	0	0	0	0	0	0	0	0
WEST HARTFORD	57	0	0	0	0	0	0	0	0	0	0
WEST HARTLAND	64	0	0	0	0	0	0	0	0	0	0
WINSTED	19	0	0	0	0	0	0	0	0	0	0
TOTALS	2698	0	0	0	0	0	0	0	0	0	0

Violations

(1) Domestic Overflow Yearly (2) Domestic Overflow Seasonal (3) Storage Manure
 (4) Storage Chemicals (5) Chemical Dumping (6) Trash Dumping (7) Industrial Overflow
 (8) Erosion/Sediment (9) Laundry Discharge (10) Questionable Situation



Total Type of Facilities, Sanitary Systems, And UST's by Town

Town	Type of Facility							Sanitary System				
	Church	House	Industrial	Municipal	Outbuilding	Retail	School	Vacant Lot	None	Septic	Sewer	UST
AVON		35	2		1		2	11	12	39		
BARKHAMSTED	1	98						4	5	98		2
BLOOMFIELD		8						5	5	5	3	
BURLINGTON		200			5			3	8	200		13
COLLINSVILLE		9		1				3	3	10		
EAST HARTLAND		63		1	6			1	10	62		2
HARWINTON		40			1				1	40		1
NEW HARTFORD	3	1430	4	12	57	8	3	31	97	1450	1	23
SIMSBURY								11		11		
TOLLAND		90		3		1		1	1	94		
TORRINGTON	1	266	2	1	5		1		5	84	187	1
WEST GRANVILLE	1	150	1	1	5	1	1	4	13	151		5
WEST HARTFORD		40			1	1	1	14	16	14	27	
WEST HARTLAND	2	55		3	4				6	58		5
WINSTED		19									19	
TOTALS	8	2503	9	22	85	11	8	88				

