



2013 Public Water Supply Verification

Please verify the information below and then click the Continue button.

PWS ID:	2187000
PWS Name:	MILLIS WATER DEPT
PWS Street Address Line 1:	900 MAIN STREET, ROOM 201
PWS Street Address Line 2:	
City/Town:	MILLIS
State:	MA
Zip Code:	02054-0000
Class:	COM



System Information (COM/NTNC)

1. PWS Street Address

MILLIS WATER DEPT		
PWS Name		
900 MAIN STREET, ROOM 201		
PWS Street Address Line 1		PWS Street Address Line 2
MILLIS	Massachusetts	02054
City/Town	State	Zip Code
508-376-5424	508-376-2442	
Phone Number	Fax Number (if available)	
Web Site Address of PWS (if available)		

2. PWS Mailing Address ☐ Same as street address.

MILLIS WATER DEPARTMENT		
Mailing Name		
900 MAIN STREET, ROOM 201		
Mailing address Line 1		Mailing address Line 2
MILLIS	Massachusetts	02054
City/Town	State	Zip Code

3. Is this a Seasonal System? (This question is not applicable to your PWS)

4. Owner/Responsible Person:

			<input type="checkbox"/> This is a new owner.
Owners Name- First, Middle Int, Last - one name only(if not municipal):			Phone Number

5. Primary Contact:

JAMES			
MCKAY	508-376-5424	<input type="checkbox"/> This is a new contact.	
Name (First, Middle Int, Last) • one name only•		Phone Number	
jmckay@millis.net			
Email Address (For Emergency Purposes)		Re-enter Email Address	



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City: MILLIS
PWS Class: COM

6. Certified Drinking Water Operators employed by the PWS:

Name	Grade	License Number	Function	Begin-Date	End-Date
RONALD F, MCKENNEY	2D/1T	12191/22221	PRIMARY TREATMENT OPERATOR	5/25/2010	
MICHAEL H, PERCIACCANTE	1T/1D	5047/4946	SECONDARY TREATMENT OPERATOR	9/22/2008	
KEVIN S, KANDOLA	1T OIT/1D OIT	20114/20006	GENERAL OPERATOR	9/22/2008	

Name	Grade	License Number	Function	Begin-Date	End-Date
KENNETH A, MCCOLL	1T/1D	4238/3044	GENERAL OPERATOR	3/13/2014	
RONALD F, MCKENNEY	2D/1T	12191/22221	PRIMARY DISTRIBUTION OPERATOR	3/20/2014	
MICHAEL H, PERCIACCANTE	1T/1D	5047/4946	SECONDARY DISTRIBUTION OPERATOR	3/20/2014	
To Add an operator, begin typing a license # in the field below. Pick the license number from the list and then click the "Add Operator" button. License Number: <input type="text"/>					

7. Primary Certified Operator Contact Information:

Primary Distribution Certified Operator Contact Information

RONALD F MCKENNEY 508-376-5424 508-376-2442
Name Phone Number Fax Number

Mailing address information is provided to MassDEP by the Division of Professional Licensure

15 MORSE AVE
Mailing Address 1 Mailing Address 2
MILLIS Massachusetts 02054
Town/City State Zip Code E-Mail Address Re-Enter E-Mail Address

Primary Treatment Certified Operator Contact Information

RONALD F MCKENNEY 508-376-5424 508-376-2442
Name Phone Number Fax Number

Mailing address information is provided to MassDEP by the Division of Professional Licensure

15 MORSE AVE
Mailing Address 1 Mailing Address 2
MILLIS Massachusetts 02054
Town/City State Zip Code E-Mail Address Re-Enter E-Mail Address

If you use a contract certified operator, does your system have a signed Public Water System Certified Operator Compliance Notice approved by the DEP

☒ N/A ☐ Yes ☐ No



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8. Names of Water Commissioners/Selectmen/Trustees/Association Board Members (if applicable). Please attach an organizational chart, if available. ☐ Check here to upload

Name	Phone	Title
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9. Owner Type:

MUNICIPAL

Federal Employment Identification Number (FEIN):

046001226

(FEIN) - Do NOT provide SSN

10. Is this system a not-for-profit organization

☒ Yes ☐ No

If yes, indicate Tax Exempt code (e.g., 501C):

046001226

11. Population Served(DailyAverage):

Winter Population (October March):

8527

Summer Population (April September):

8527

By what method was the population figured

Census Type:

City/Town

Other Description:

12. Testing requirements for lead and copper and bacteria in your system is based on the population .

	Number of Samples	Frequency of Samples
Lead and copper samples required:	20	3YEARS
Winter Bacteria samples required:	19	MONTH
Summer Bacteria samples required:	19	MONTH

13. Distribution Meter information:

a. Number of Service Connections:

2413

b. Percentage of service connections that are metered:

100 %

c. Are all publicly owned buildings metered?

☒ Yes ☐ No ☐ N/A

d. If No, what percent are

%

14. System Information

a. Number of Distribution Systems:

1

b. Finished Water Storage Capacity in Million Gallons (MG):
[Conversion factor is (# of gallons)/(1,000,000)= MG]

1.5

c. Pumping Capacity (GPM):

1750

15. Percentage of Source Types (must add up to 100%)

Ground Water	Surface Water	Purchased Ground	Purchased Surface
100 %	0 %	0 %	0 %



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16. Emergency Response Actions:

a. Has your system completed an Emergency Response Plan (ERP). (DO NOT submit your ERP to MassDEP. MassDEP will review the ERP during your next sanitary survey.)

☒ Yes ☐ No

- ☐ I have made changes to the ERP (attach copies of all changes.)
☒ I have made no changes to the ERP.

b. Does your system have an Emergency Response (ER) annual training plan

☐ Yes ☒ No

If Yes, please attach a copy of the plan. Describe the training performed during the reporting period, including the types of training, the date(s) of training, and number of staff and local officials trained on each date and their job titles.

c. Is your system registered for the Health and Homeland Alert Network (HHAN)

☒ Yes ☐ No

d. Has your system signed the agreement and joined the Massachusetts Water and Wastewater Agency Response Network

☐ Yes ☒ No

e. How often does your system test the following

Alarms:	<input type="text" value="Monthly"/>	Other Frequency:	<input type="text"/>
Interlocks:	<input type="text" value="Monthly"/>	Other Frequency:	<input type="text"/>
Back-up power sources:	<input type="text" value="Monthly"/>	Other Frequency:	<input type="text"/>

f. List and describe all Level 3 or higher ER incidents during the reporting period.

Date of ER incident	Level	Description
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17. Do you have an antenna or other appurtenance (not needed for drinking water purposes) attached to any of your storage tank (s)

☒ Yes ☐ No ☐ No storage tanks

If Yes, list the antennae or other appurtenances, owner(s) names, and the date installed:

Storage Tank Name	Antennae or Appurtenance	Owner Name	Date (mm/dd/yyyy) Installed
<input type="text" value="FARM ST TANK 2"/>	<input type="text" value="ANTENNAE"/>	<input type="text" value="MILLIS"/>	<input type="text" value="6/15/2001"/>
<input type="text" value="WALNUT ST TANK"/>	<input type="text" value="ANTENNAE"/>	<input type="text" value="MILLIS"/>	<input type="text" value="6/15/2001"/>

18. Comments or additional information regarding this section:

PRIMARY OPERATOR (TREATMENT AND DISTRIBUTION): RONALD F MCKENNEY, 15 MORSE AVE, MILLIS MA 02054 SECONDARY OPERATOR (TREATMENT AND DISTRIBUTION) MICHAEL PERCIACCANTE OPERATOR DAVID RACHMACIEJ D1 #23456 / T1 #42119



Treatment Plants

Treatment Plant

1. Plant Information

2187000-01T		GEORGE D'ANGELIS WATER TREATMENT PLANT	
Plant ID# :		Plant Name:	
WATER ST			
Street Address Line 1:		Street Address Line 2:	
MILLIS		MA	02054
City/Town:		State(2 letter abbreviation)	Zip:
A	ACTIVE	I- T	
Status:	Availability:	Class:	Capacity (MGD):
RONALD	F MCKENNEY	5083765424	5083762442
Contact:		Phone:	Fax:

2. Related Sources Table

2187000-01G	WELL 1
2187000-02G	WELL 2

3. Treatment Table(s)

Treatment Objective:		Treatment Process:	
CORROSION CONTROL		PH ADJUSTMENT, POST	
Innovative: N	Start Date: 07/03/1998	End Date:	
<div>Chemical Name</div> <div>SODIUM HYDROXIDE</div>			
Comment:			

Treatment Objective:		Treatment Process:	
DISINFECTION		HYPOCHLORINATION, POST	
Innovative: N	Start Date: 07/03/1998	End Date:	
<div>Chemical Name</div> <div>SODIUM HYPOCHLORITE</div>			
Comment:			

Treatment Objective:		Treatment Process:	
ORGANICS REMOVAL		AERATION, PACKED TOWER	
Innovative: N	Start Date: 07/03/1998	End Date:	



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City: MILLIS
PWS Class: COM

No Data Found

Comment:

Treatment Objective:	Treatment Process:
OTHER	FLUORIDATION
Innovative: N	Start Date: 07/03/1998
	End Date:

Chemical Name

SODIUM FLUORIDE

Comment:

Treatment Plant

1. Plant Information

2187000-02T	WELL 3 VILLAGE ST		
Plant ID# :	Plant Name:		
BIRCH ST			
Street Address Line 1:	Street Address Line 2:		
MILLIS	MA	02054	
City/Town:	State(2 letter abbreviation)	Zip:	
A	ACTIVE	I- T	
Status:	Availability:	Class:	Capacity (MGD):
RONALD	F	MCKENNEY	5083765424
Contact:	Phone:	Fax:	

2. Related Sources Table

2187000-03G	WELL 3

3. Treatment Table(s)

Treatment Objective:	Treatment Process:
CORROSION CONTROL	PH ADJUSTMENT, POST
Innovative: N	Start Date: 01/01/2001
	End Date:

Chemical Name

SODIUM HYDROXIDE



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Name: MILLIS WATER DEPT
City: MILLIS
PWS Class: COM

Comment:

Treatment Objective: OTHER		Treatment Process: FLUORIDATION	
Innovative: N	Start Date: 01/01/1992	End Date:	
Chemical Name SODIUM FLUORIDE			

Comment:

Treatment Objective: DISINFECTION		Treatment Process: HYPOCHLORINATION, POST	
Innovative: N	Start Date: 03/04/2013	End Date:	
No Data Found			

Comment:

Treatment Plant

1. Plant Information

2187000-03T		WELL 4 SOUTH END POND	
Plant ID# :		Plant Name:	
ORCHARD ST			
Street Address Line 1:		Street Address Line 2:	
MILLIS		MA	02054
City/Town:		State(2 letter abbreviation)	Zip:
A	ACTIVE	I- T	
Status:	Availability:	Class:	Capacity (MGD):
RONALD	F MCKENNEY	5083765424	5083762442
Contact:		Phone:	Fax:

2. Related Sources Table

2187000-04G	WELL 4
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3. Treatment Table(s)

Treatment Objective: CORROSION CONTROL		Treatment Process: PH ADJUSTMENT, POST	
Innovative: N	Start Date: 01/01/2001	End Date:	



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City: MILLIS
PWS Class: COM

Chemical Name

SODIUM HYDROXIDE

Comment:

Treatment Objective:

OTHER

Treatment Process:

FLUORIDATION

Innovative: N

Start Date: 01/01/1992

End Date:

Chemical Name

SODIUM FLUORIDE

Comment:

Treatment Plant

1. Plant Information

2187000-04T		PAINE WATER TREATMENT FACILITY	
Plant ID# :		Plant Name:	
NORFOLK RD			
Street Address Line 1:		Street Address Line 2:	
MILLIS		MA	02054
City/Town:		State(2 letter abbreviation)	Zip:
A	ACTIVE	I- T	1.5
Status:	Availability:	Class:	Capacity (MGD):
RONALD	F MCKENNEY	5083765424	5083762442
Contact:		Phone:	Fax:

2. Related Sources Table

2187000-05G	WELL 5
2187000-06G	WELL 6

3. Treatment Table(s)

Treatment Objective:		Treatment Process:	
OTHER		FLUORIDATION	
Innovative: N	Start Date: 07/14/2003	End Date:	



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Name: MILLIS WATER DEPT
City: MILLIS
PWS Class: COM

Chemical Name

SODIUM FLUORIDE

Comment:

Treatment Objective:

DISINFECTION

Treatment Process:

HYPOCHLORINATION, POST

Innovative: N

Start Date: 07/14/2003

End Date:

Chemical Name

SODIUM HYPOCHLORITE

Comment:

Treatment Objective:

CORROSION CONTROL

Treatment Process:

PH ADJUSTMENT, POST

Innovative: N

Start Date: 07/14/2003

End Date:

Chemical Name

SODIUM HYDROXIDE

Comment:

Comments or additional information regarding this section



Pump Stations

Pump

1. Pump Information

WALNUT STREET BOOSTER STATION	WALNUT STREET
Pump Station Name	Location

Status:	A	Availability:	ACTIVE
Number of Pumps:	1	Number of Emergency Pumps:	
Raw or Finished Water:	Finished	Maximum Aggregate Capacity (Gallons per Minutes):	
Standby/Emergency Power:	N		

Primary Pump Details

Suction Type:		Suction Head (ft.):	
Suction Size (inches):		Motor Horse Power:	3
Motor Type:	CENT	Motor Control:	
Discharge Type:		Discharge Size (inches):	
Installation Date	06/01/1993	Model #:	
Pump Manufacturer:			

2. Related Sources Table (if applicable)

No Data Found

Pump

1. Pump Information

WELL 3 PUMP	BIRCH ST
Pump Station Name	Location

Status:	A	Availability:	ACTIVE
Number of Pumps:	1	Number of Emergency Pumps:	
Raw or Finished Water:	Raw	Maximum Aggregate Capacity (Gallons per Minutes):	450
Standby/Emergency Power:	Y		

Primary Pump Details

Suction Type:		Suction Head (ft.):	
Suction Size (inches):		Motor Horse Power:	40
Motor Type:	CENT	Motor Control:	
Discharge Type:		Discharge Size (inches):	
Installation Date		Model #:	
Pump Manufacturer:	JOHNSON VERTICL		



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2. Related Sources Table (if applicable)

2187000-03G	WELL 3

Pump

1. Pump Information

WELL 4 PUMP	ORCHARD ST
Pump Station Name	Location

Status:	A	Availability:	ACTIVE
Number of Pumps:	1	Number of Emergency Pumps:	
Raw or Finished Water:	Raw	Maximum Aggregate Capacity (Gallons per Minutes):	650
Standby/Emergency Power:	Y		

Primary Pump Details

Suction Type:		Suction Head (ft.):	
Suction Size (inches):		Motor Horse Power:	50
Motor Type:	CENT	Motor Control:	
Discharge Type:		Discharge Size (inches):	
Installation Date		Model #:	
Pump Manufacturer:	GOULDS		

2. Related Sources Table (if applicable)

2187000-04G	WELL 4

Pump

1. Pump Information

WELL 5 PAINE PUMP	NORFOLK ROAD
Pump Station Name	Location

Status:	A	Availability:	ACTIVE
Number of Pumps:	1	Number of Emergency Pumps:	
Raw or Finished Water:	Raw	Maximum Aggregate Capacity (Gallons per Minutes):	600
Standby/Emergency Power:	Y		



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Primary Pump Details			
Suction Type:		Suction Head (ft.):	
Suction Size (inches):		Motor Horse Power:	
Motor Type:	VERT TURB	Motor Control:	
Discharge Type:		Discharge Size (inches):	
Installation Date		Model #:	
Pump Manufacturer:			

2. Related Sources Table (if applicable)

2187000-05G	WELL 5

Pump

1. Pump Information

WELL 6 PAINE PUMP	NORFOLK ROAD
Pump Station Name	Location

Status:	A	Availability:	ACTIVE
Number of Pumps:	1	Number of Emergency Pumps:	
Raw or Finished Water:	Raw	Maximum Aggregate Capacity (Gallons per Minutes):	875
Standby/Emergency Power:	Y		

Primary Pump Details			
Suction Type:		Suction Head (ft.):	
Suction Size (inches):		Motor Horse Power:	
Motor Type:	VERT TURB	Motor Control:	
Discharge Type:		Discharge Size (inches):	
Installation Date		Model #:	
Pump Manufacturer:			

2. Related Sources Table (if applicable)

2187000-06G	WELL 6

Comments or additional information regarding this section



Storage Facilities

Show all storage facilities

Storage Facility

[Edit](#) [Delete](#)

WALNUT ST TANK	DISTRIBUTION SYSTEM WALNUT STREET
Storage Facility Name	Location

Status:	A	Availability:	ACTIVE
Storage Type:	GROUND LEVEL STORAGE TANK	Capacity (MG):	.6
Material:	STEEL	Installation Date	

Storage Facility

[Edit](#) [Delete](#)

FARM ST TANK 2	DISTRIBUTION SYSTEM FARM STREET
Storage Facility Name	Location

Status:	A	Availability:	ACTIVE
Storage Type:	GROUND LEVEL STORAGE TANK	Capacity (MG):	1
Material:	STEEL	Installation Date	

Comments or additional information



Cross Connection Control Program (CCCP)

1. Cross Connection Program Coordinator

<input type="text" value="CHARLES"/>	<input type="text" value="TOOMEY"/>	
Coordinator First Name	Coordinator Last Name	
<input type="text" value="15 RUFUS PUTNAM RD"/>	<input type="text"/>	
Coordinator Street Address Line 1	Coordinator Street Address Line 2	
<input type="text" value="NORTH BROOKFIELD"/>	<input type="text" value="Massachusetts"/>	<input type="text" value="01535"/>
City/Town	State	Zip Code
<input type="text" value="508-867-5016"/>	<input type="text" value="508-867-4380"/>	
Phone Number	Fax Number (if available)	
<input type="text" value="TOOMEYWATER@AOL.COM"/>		
Coordinator email		

Surveyor Personnel Information :

To add a surveyor, begin typing the certification ID # in the field below. Pick the license # off the list and then click the "Add Surveyor" button.

MassDEP Certification ID Number



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Tester Personnel Information :

To add a tester, begin typing the certification ID # in the field below. Pick the license # off the list and then click the "Add Tester" button..

MassDEP Certification ID Number

2. Did your system use the services of a third party/consultant for the implementation of your Cross-connection Control Program or a portion of it?

☒ Yes ☐ No

Contact First Name

Contact Last Name

Doing Business As
(Company/Individual Name)

Consultant Street Address Line 1

Consultant Street Address Line 2

City/Town

State

Zip Code

Phone Number

Fax Number (if available)

Consultant email

Third Party Consultant Surveyor Personnel Information:

To add a surveyor, begin typing the certification ID # in the field below. Pick the license # off the list and then click the "Add Surveyor" button.

MassDEP Certification ID Number

Third Party Consultant Tester Personnel Information:

To add a tester, begin typing the certification ID # in the field below. Pick the license # off the list and then click the "Add Tester" button.

MassDEP Certification ID Number

What services does the consultant perform for the town	
<input checked="" type="checkbox"/> Facilities Survey	<input checked="" type="checkbox"/> Testing of Devices
<input type="checkbox"/> Device Installation Plan Approval	<input type="checkbox"/> Program Management
<input type="checkbox"/> Other(explain)	<input type="text"/>



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3. Have you finished the first round of cross-connection surveys of all non-residential facilities within your service area?

☒ Yes ☐ No

If Yes, when was the cross connection survey completed?

12/31/2011

Date (mm/dd/yyyy)

If No, when do you expect to finish the survey?

Date (mm/dd/yyyy)

4. Complete the following table summarizing types and numbers of facilities surveyed during this reporting period.

Type of Facility	Total # of Facilities Served by PWS	# of Facilities Surveyed Prior to this reporting period	# of Facilities with first time surveys during this reporting period	# of Facilities Remaining to be Surveyed	# of Facilities Re-surveyed in this reporting period
	A	B	C	= A - (B+C)	
Commercial	0	0	0	0	0
Industrial	0	0	0	0	0
Institutional	0	0	0	0	0
Municipal	0	0	0	0	0
Residential (Optional)	0	0	0	0	0
Total	0	0	0	0	0



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*Use Comment field at the end of this question set (question #16) to provide, clarifications, descriptions or explanations regarding the above data. Please reference the question number and table field in your description.

5. Are there any cross-connection(s) within your systems service area protected by:

Reduced Pressure Backflow Preventer (RPBP):	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Double Check Valve Assembly (DCVA):	<input checked="" type="radio"/> Yes <input type="radio"/> No	

If the answer is No to both questions go to question 8. If the answer is yes please complete the appropriate section(s) of the following table.

Type of Facility	Total # of devices at the beginning of this reporting period	# of devices installed in this reporting period	# of devices removed & not replaced in this reporting period	Total # of devices	# of seasonal devices in Total
	A	B	C	= A +B-C	
RPBP					
Commercial	35	1	1	35	3
Industrial	7	0	0	7	0
Institutional	7	0	0	7	3
Municipal	12	2	1	13	0
Residential (Optional)	0	0	0	0	0
Total	61	3	2	62	6
DCVA					
Commercial	14	1	0	15	0
Industrial	5	0	0	5	0
Institutional	1	0	0	1	0
Municipal	2	0	0	2	0
Residential (Optional)	0	0	0	0	0
Total	22	1	0	23	0

*Use Comment field at the end of this question set (question #16) to provide, clarifications, descriptions or explanations regarding the above data.

Please reference the question number and table field in your description.

*PWSs must maintain a list of ALL registered cross connections that are being protected by a RPBP or DCVA. The list must contain at a minimum the following information: owner/business name, Cross Connection ID#, types of protection (RPBP or DCVA), brand, model, serial # and exact location within the facility.

6. Provide information on the testing performed in this reporting period by the type of device/assembly.

Type of Protection	# of Initial tests	# of Routine tests	# of Failures	# of Repairs & Re-tests	# Not Tested
RPBP	3	107	4	4	9
DCVA	1	19	0	0	3



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Describe any discrepancies between the expected number of tests, based on the total number of devices reported in question #5, and the actual number of tests reported in question #6. If you reported a value greater than 0 for "# Not Tested" in question #6 provide an explanation for why the devices were not tested.

BREAKDOWN OF DEVICES NOT TESTED: MAIN ST. VET (825 MAIN-SYSTEM REMOVED; MILLIS H.S.(245 PLAIN) WATER NOT ON TO IRRIGATION; GAF CORP (60 CURVE ST.) VACANT NO ACCESS- 5 TESTS; MICHAEL'S MOTORSPORTS (857 MAIN-WATER NOT ON TO IRRIGATION; MILLIS WELL #3 (VILLAGE ST.; INITIAL TEST DURING SECOND ROUND TOTAL 9 TESTS DCVA'S NOT TESTED: GAF CORP (1073 MAIN)-VACANT NO ACCESS (2 TESTS); PHIL BRAMAN TRUST (1313 MAIN)-VACANT NO ACCESS. TOTAL 3 TESTS

7. Can your PWS provide MassDEP with a copy of the list of RBPB and DCVA within 2 hours?

☒ Yes ☐ No

8. Does your PWS approve, permit and/or test PVB and/or SPPVB* devices?

PVB DEVICES	<input checked="" type="radio"/> Yes <input type="radio"/> No	SPPVB DEVICES	<input type="radio"/> Yes <input checked="" type="radio"/> No	
if Yes to either please provide the following details:				
Type of Protection	# of Initial tests	# of Routine tests	# of Failures	# of Repairs & Re-tests
PVB	0	6	0	0
SPPVB				

*Use Comment field at the end of this question set (question #16) to provide, clarifications, descriptions or explanations regarding the above data. Please reference the question number and table field in your description.

9. What is the maximum time allowed to protect a cross connection after the discovery of a violation?

Check one: ☒ 14 days ☐ 30 days ☐ 90 days ☐ Greater than 90 days

10. Do you have a fully implemented active cross-connection educational program directed toward residential customers?

<input checked="" type="radio"/> Yes <input type="radio"/> No	If No, is there a date when you plan to have an educational program implemented? NTNCs may skip this question.	<input type="text"/> Date(mm/dd/yyyy)
---------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	------------------------------------------

11. Do you have a fully implemented educational program for specific users (ex. Industrial, Commercial, Institutional, Municipal and Residential)?

<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	"N/A" should be selected only if your system does not have any Industrial, Commercial, Institutional, Municipal or Residential users. If Yes, please list the types of users targeted through your education program. (Check all that apply):		
<input checked="" type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Institutional <input checked="" type="checkbox"/> Residential	<input checked="" type="checkbox"/> Municipal
If No, when do you plan to have the educational program implemented?			<input type="text"/> Date(mm/dd/yyyy)

12. Does your system have an atmospheric vacuum breaker (hose bib) program for your customers?

<input type="radio"/> Yes <input checked="" type="radio"/> No	If no do you plan to institute one in future? If yes go to question 13	<input type="radio"/> Yes <input checked="" type="radio"/> No	If yes When? If no go to question 13.	<input type="text"/> Date(mm/dd/yyyy)
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13. Does your system have a local ordinance, by-law or policy statement on cross-connection control?

☐ Yes ☒ No

If YES, and you already provided copy to MassDEP in 2008 (2007 ASR) no further action is required.

If YES, and you did not provide a copy to MassDEP please forward a copy to:

MassDEP Boston office, 1 Winter Street, 5th floor, Boston, MA 02108

Attn : Otavio DePaula-Santos

14. Does your water system have a total containment policy?

☐ Yes ☒ No

Containment policy means ALL services connections have a device installed at the meter. Containment protects the water main by isolating each facility independently of its activity (residential, commercial, industrial, or municipal).

15. Has there been a cross-connection incident in your water system during the reporting period?

☐ Yes ☒ No

If Yes, please provide information below:

Date of Incident	Location of the Incident	DESCRIPTION
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Comments or additional information regarding this section

ADDITIONAL TESTOR/SURVEYORS: RYAN F. TOOMEY: #31603 EXP 11/1/2015 KENNETH ROBIDOUX #32158 EXP 5/1/2016 NOTE: 4 FAILED RBPB DEVICES WERE RETESTED IN JANUARY 2014 AND PASSED.



Source Protection - Zone II

Zone

1. Mass DEP assigned Zone II ID # :	126
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2. DEP Source IDs and Names of the withdrawal points in Zone II.

SourceID	Source Name	Zone I Radius(ft)	Zone I Control	Pollution Sources
2187000-03G	WELL 3	400	Y	

3. MassDEP SWAP Program Identified Potential Sources of Contamination (PSC), please update with current water supply protection area inventory information.

PSC Description	Quantity	Ground Threat	Comments
RESIDENTIAL SEPTIC/CESSPOOL	25	M	
TRANSPORTATION CORRIDOR	2	M	
FERTILIZER STORAGE AND USE	2	M	
MANURE SPREADING OR STORAGE	2	H	
PESTICIDE STORAGE OR USE	2	H	
STORMWATER DRAINS / RETENTION BASINS	25	L	
UNDERGROUND STORAGE TANKS	9	H	
21E OIL OR HAZARDOUS MATERIALS RELEASE	8	-	
AUTO REPAIR SHOP	10	H	
CAR WASH	2	L	
DRY CLEANER	2	H	
GAS / SERVICE STATION	4	H	
LAUNDROMAT	2	L	
MEDICAL FACILITY	2	M	
NURSING HOME	2	L	
PHOTO PROCESSOR	4	H	
REPAIR SHOP	10	H	
ASPHALT, COAL TAR OR CONCRETE PLANT	1	M	
INDUSTRIAL PARK	3	H	
RESIDENTIAL FUEL OIL STORAGE	25	M	
RESIDENTIAL LAWN CARE/GARDENING	25	M	
BUS AND TRUCK TERMINAL	2	H	
LIVESTOCK OPERATIONS	3	M	
LANDSCAPING	4	M	
ROAD/MAINTENANCE FACILITY	2	M	
ABOVEGROUND STORAGE TANKS	2	M	



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CLANDESTINE DUMPING	2	H	
COMPOSTING FACILITY	2	L	
LANDFILLS AND DUMPS	2	H	
SMALL QUANTITY HAZARDOUS WASTE GENERATORS	1	M	
SNOW DUMP	2	M	
VERY SMALL QUANTITY HAZARDOUS WASTE GENERATORS	4	M	
RAILROAD TRACKS/YARDS	2	H	
LARGE QUANTITY HAZARDOUS WASTE GENERATORS	1	H	
FUEL OIL DISTRIBUTOR	2	H	
WASTE TRANSFER STATION	2	M	
HAZARDOUS MATERIALS STORAGE	4	H	
INDUSTRIAL LAGOONS OR PITS	2	H	
FUNERAL HOME	2	L	

4. Did your inspections of the Zone II identify any new land uses or activities that pose a threat to drinking water quality?

☐ Yes ☒ No

If YES, please describe:

5. Did your inspection identify any violations of state or local land use controls?

☐ Yes ☒ No

If YES, please describe the violation(s), reporting and resolutions:

6. If YES, did you report those violations to the municipality (i.e. building inspector, board of health, planning board)?

☐ Yes ☐ No

Zone

1. Mass DEP assigned Zone II ID # :	127
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2. DEP Source IDs and Names of the withdrawal points in Zone II.

SourceID	Source Name	Zone I Radius(ft)	Zone I Control	Pollution Sources
2187000-04G	WELL 4	400	Y	



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3. MassDEP SWAP Program Identified Potential Sources of Contamination (PSC), please update with current water supply protection area inventory information.

PSC Description	Quantity	Ground Threat	Comments
ABOVEGROUND STORAGE TANKS	2	M	
CLANDESTINE DUMPING	2	H	
STORMWATER DRAINS / RETENTION BASINS	25	L	
UNDERGROUND STORAGE TANKS	9	H	
VERY SMALL QUANTITY HAZARDOUS WASTE GENERATORS	4	M	
21E OIL OR HAZARDOUS MATERIALS RELEASE	8	-	
LIVESTOCK OPERATIONS	3	M	
AUTO REPAIR SHOP	10	H	
BUS AND TRUCK TERMINAL	2	H	
FUNERAL HOME	2	L	
RAILROAD TRACKS/YARDS	2	H	
REPAIR SHOP	10	H	
FUEL OIL DISTRIBUTOR	2	H	
INDUSTRIAL PARK	3	H	
RESIDENTIAL FUEL OIL STORAGE	25	M	
RESIDENTIAL LAWN CARE/GARDENING	25	M	
RESIDENTIAL SEPTIC/CESSPOOL	25	M	
COMPOSTING FACILITY	2	L	
LANDFILLS AND DUMPS	2	H	
ROAD/MAINTENANCE FACILITY	2	M	
SNOW DUMP	2	M	
WASTE TRANSFER STATION	2	M	
LANDSCAPING	4	M	
MANURE SPREADING OR STORAGE	2	H	
INDUSTRIAL LAGOONS OR PITS	2	H	
HAZARDOUS MATERIALS STORAGE	4	H	
ASPHALT, COAL TAR OR CONCRETE PLANT	1	M	
FERTILIZER STORAGE AND USE	2	M	
PESTICIDE STORAGE OR USE	2	H	
CAR WASH	2	L	
GAS / SERVICE STATION	4	H	
SMALL QUANTITY HAZARDOUS WASTE GENERATORS	1	M	
TRANSPORTATION CORRIDOR	2	M	



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DRY CLEANER	2	H	
LARGE QUANTITY HAZARDOUS WASTE GENERATORS	1	H	
NURSING HOME	2	L	
MEDICAL FACILITY	2	M	
LAUNDROMAT	2	L	
PHOTO PROCESSOR	4	H	

4. Did your inspections of the Zone II identify any new land uses or activities that pose a threat to drinking water quality?

☐ Yes ☒ No

If YES, please describe:

5. Did your inspection identify any violations of state or local land use controls?

☐ Yes ☒ No

If YES, please describe the violation(s), reporting and resolutions:

6. If YES, did you report those violations to the municipality (i.e. building inspector, board of health, planning board)?

☐ Yes ☐ No

Zone

1. Mass DEP assigned Zone II ID # :	324
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2. DEP Source IDs and Names of the withdrawal points in Zone II.

SourceID	Source Name	Zone I Radius(ft)	Zone I Control	Pollution Sources
2187000-02G	WELL 2	400	Y	
2187000-01G	WELL 1	400	Y	

3. MassDEP SWAP Program Identified Potential Sources of Contamination (PSC), please update with current water supply protection area inventory information.

PSC Description	Quantity	Ground Threat	Comments
AUTO REPAIR SHOP	10	H	
BUS AND TRUCK TERMINAL	2	H	
CAR WASH	2	L	
DRY CLEANER	2	H	



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FUNERAL HOME	2	L	
GAS / SERVICE STATION	4	H	
LAUNDROMAT	2	L	
MEDICAL FACILITY	2	M	
NURSING HOME	2	L	
PHOTO PROCESSOR	4	H	
RAILROAD TRACKS/YARDS	2	H	
REPAIR SHOP	10	H	
FUEL OIL DISTRIBUTOR	2	H	
INDUSTRIAL PARK	3	H	
RESIDENTIAL FUEL OIL STORAGE	25	M	
RESIDENTIAL LAWN CARE/GARDENING	25	M	
RESIDENTIAL SEPTIC/CESSPOOL	25	M	
COMPOSTING FACILITY	2	L	
ROAD/MAINTENANCE FACILITY	2	M	
SNOW DUMP	2	M	
TRANSPORTATION CORRIDOR	2	M	
WASTE TRANSFER STATION	2	M	
FERTILIZER STORAGE AND USE	2	M	
LANDSCAPING	4	M	
PESTICIDE STORAGE OR USE	2	H	
INDUSTRIAL LAGOONS OR PITS	2	H	
HAZARDOUS MATERIALS STORAGE	4	H	
ABOVEGROUND STORAGE TANKS	2	M	
CLANDESTINE DUMPING	2	H	
LARGE QUANTITY HAZARDOUS WASTE GENERATORS	1	H	
SMALL QUANTITY HAZARDOUS WASTE GENERATORS	1	M	
STORMWATER DRAINS / RETENTION BASINS	25	L	
UNDERGROUND STORAGE TANKS	9	H	
VERY SMALL QUANTITY HAZARDOUS WASTE GENERATORS	4	M	
ASPHALT, COAL TAR OR CONCRETE PLANT	1	M	
LIVESTOCK OPERATIONS	3	M	
MANURE SPREADING OR STORAGE	2	H	
LANDFILLS AND DUMPS	2	H	
21E OIL OR HAZARDOUS MATERIALS RELEASE	8	-	



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PWS Class: COM

4. Did your inspections of the Zone II identify any new land uses or activities that pose a threat to drinking water quality?

☐ Yes ☒ No

If YES, please describe:

5. Did your inspection identify any violations of state or local land use controls?

☐ Yes ☒ No

If YES, please describe the violation(s), reporting and resolutions:

6. If YES, did you report those violations to the municipality (i.e. building inspector, board of health, planning board)?

☐ Yes ☐ No

Zone

1. Mass DEP assigned Zone II ID # :	425
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2. DEP Source IDs and Names of the withdrawal points in Zone II.

SourceID	Source Name	Zone I Radius(ft)	Zone I Control	Pollution Sources
2187000-05G	WELL 5	400	Y	
2187000-06G	WELL 6	400	Y	

3. MassDEP SWAP Program Identified Potential Sources of Contamination (PSC), please update with current water supply protection area inventory information.

PSC Description	Quantity	Ground Threat	Comments
BUS AND TRUCK TERMINAL	2	H	
ASPHALT, COAL TAR OR CONCRETE PLANT	1	M	
FERTILIZER STORAGE AND USE	2	M	
LIVESTOCK OPERATIONS	3	M	
LANDSCAPING	4	M	
MANURE SPREADING OR STORAGE	2	H	
PESTICIDE STORAGE OR USE	2	H	
CAR WASH	2	L	
GAS / SERVICE STATION	4	H	
AUTO REPAIR SHOP	10	H	
ROAD/MAINTENANCE FACILITY	2	M	



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RESIDENTIAL LAWN CARE/GARDENING	25	M	
RESIDENTIAL SEPTIC/CESSPOOL	25	M	
ABOVEGROUND STORAGE TANKS	2	M	
CLANDESTINE DUMPING	2	H	
COMPOSTING FACILITY	2	L	
LANDFILLS AND DUMPS	2	H	
RESIDENTIAL FUEL OIL STORAGE	25	M	
21E OIL OR HAZARDOUS MATERIALS RELEASE	8	-	
UNDERGROUND STORAGE TANKS	9	H	
SMALL QUANTITY HAZARDOUS WASTE GENERATORS	1	M	
SNOW DUMP	2	M	
STORMWATER DRAINS / RETENTION BASINS	25	L	
TRANSPORTATION CORRIDOR	2	M	
DRY CLEANER	2	H	
VERY SMALL QUANTITY HAZARDOUS WASTE GENERATORS	4	M	
RAILROAD TRACKS/YARDS	2	H	
LARGE QUANTITY HAZARDOUS WASTE GENERATORS	1	H	
FUEL OIL DISTRIBUTOR	2	H	
NURSING HOME	2	L	
WASTE TRANSFER STATION	2	M	
HAZARDOUS MATERIALS STORAGE	4	H	
INDUSTRIAL LAGOONS OR PITS	2	H	
INDUSTRIAL PARK	3	H	
MEDICAL FACILITY	2	M	
LAUNDROMAT	2	L	
REPAIR SHOP	10	H	
FUNERAL HOME	2	L	
PHOTO PROCESSOR	4	H	

4. Did your inspections of the Zone II identify any new land uses or activities that pose a threat to drinking water quality?

☐ Yes ☒ No

If YES, please describe:



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5. Did your inspection identify any violations of state or local land use controls?

☐ Yes ☒ No

If YES, please describe the violation(s), reporting and resolutions:

6. If YES, did you report those violations to the municipality (i.e. building inspector, board of health, planning board)?

☐ Yes ☐ No

Comments or Additional Information regarding this section:



Ground Water Sources

Individual Ground Water Source Statistics

Source ID:	2187000-01G
Source Name:	WELL 1
Location:	WATER ST, MILLIS, MA
Status:	A
Source Availability:	ACTIVE

		Withdrawal Units:	GAL
Latitude:	42.176636	January:	4,302,551
Longitude: -	71.351662	February:	4,632,858
Source Watershed:	CHARLES	March:	4,523,360
Well Type:	BEDROCK WELL	April:	3,206,744
Well Depth (ft.):	48	May:	3,835,558
Well Casing Height (ft.):	38	June:	3,709,747
Well Casing Depth (ft.):	38	July:	3,663,833
Screen Length (ft.):	10	August:	4,814,713
		September:	4,989,491
Pump Setting (ft):	0	October:	4,555,178
		November:	4,185,579
Approved Daily Pumping Volume (MGD):	.72	December:	2,921,704
Source Metered:	Yes	Total Amount Pumped:	49,341,316
Date of Meter Installation:		Total # of Days Pumped:	355
Type of water metered for source:	RAW	Maximum Single Day Pumped Volume:	217,821
Last Meter Calibration:	3/26/2013	Date of Maximum Amount Pumped:	8/25/2013



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Individual Ground Water Source Statistics

Source ID:	2187000-03G		
Source Name:	WELL 3		
Location:	BIRCH STREET, MILLIS, MA		
Status:	A		
Source Availability:	ACTIVE		
		Withdrawal Units:	GAL
Latitude:	42.168983	January:	31,640
Longitude:	- 71.339976	February:	1,542
Source Watershed:	CHARLES	March:	886,656
Well Type:	GRAVEL-PACKED	April:	4,015,310
Well Depth (ft.):	60	May:	4,557,590
Well Casing Height (ft.):	2	June:	3,722,792
Well Casing Depth (ft.):	40	July:	6,107,444
Screen Length (ft.):	20	August:	6,316,833
		September:	6,605,304
Pump Setting (ft.):	0	October:	6,050,304
		November:	2,138,047
Approved Daily Pumping Volume (MGD):	.75	December:	3,541,187
Source Metered:	Yes	Total Amount Pumped:	43,974,649
Date of Meter Installation:		Total # of Days Pumped:	254
Type of water metered for source:	RAW	Maximum Single Day Pumped Volume:	324,800
Last Meter Calibration:	3/26/2013	Date of Maximum Amount Pumped:	7/17/2013



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Individual Ground Water Source Statistics

Source ID:	2187000-04G		
Source Name:	WELL 4		
Location:	NEAR ORCHARD ST, MILLIS, MA		
Status:	A		
Source Availability:	ACTIVE		
		Withdrawal Units:	GAL
Latitude:	42.193622	January:	4,427,232
Longitude: -	71.351997	February:	4,738,916
Source Watershed:	CHARLES	March:	4,681,141
Well Type:	BEDROCK WELL	April:	3,364,773
Well Depth (ft.):	60	May:	3,955,832
Well Casing Height (ft.):	2	June:	3,949,892
Well Casing Depth (ft.):	50	July:	5,222,158
Screen Length (ft.):	10	August:	4,943,089
		September:	5,093,506
Pump Setting (ft):	0	October:	4,704,292
		November:	4,292,000
Approved Daily Pumping Volume (MGD):	.86	December:	4,157,814
Source Metered:	Yes	Total Amount Pumped:	53,530,645
Date of Meter Installation:		Total # of Days Pumped:	365
Type of water metered for source:	RAW	Maximum Single Day Pumped Volume:	252,732
Last Meter Calibration:	3/26/2013	Date of Maximum Amount Pumped:	7/17/2013



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Individual Ground Water Source Statistics

Source ID:	2187000-02G		
Source Name:	WELL 2		
Location:	WATER STREET, MILLIS, MA		
Status:	A		
Source Availability:	ACTIVE		
		Withdrawal Units:	GAL
Latitude:	42.176323	January:	2,375,376
Longitude: -	71.351547	February:	2,553,054
Source Watershed:	CHARLES	March:	2,499,145
Well Type:	BEDROCK WELL	April:	1,776,432
Well Depth (ft.):	46	May:	2,124,069
Well Casing Height (ft.):	36	June:	2,059,985
Well Casing Depth (ft.):	36	July:	2,025,901
Screen Length (ft.):	10	August:	2,645,678
		September:	2,760,402
Pump Setting (ft):	0	October:	2,523,981
		November:	2,314,438
Approved Daily Pumping Volume (MGD):	.5	December:	1,618,710
Source Metered:	Yes	Total Amount Pumped:	27,277,171
Date of Meter Installation:		Total # of Days Pumped:	356
Type of water metered for source:	RAW	Maximum Single Day Pumped Volume:	120,555
Last Meter Calibration:		Date of Maximum Amount Pumped:	8/25/2013



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Individual Ground Water Source Statistics

Source ID:	2187000-05G
Source Name:	WELL 5
Location:	NEAR NORFOLK RD
	MILLIS
Status:	A
Source Availability:	ACTIVE

		Withdrawal Units:	GAL
Latitude:	42.14994	January:	5,511,832
Longitude: -	71.340456	February:	5,959,199
Source Watershed:	CHARLES	March:	5,839,554
Well Type:	GRAVEL-PACKED	April:	2,376,488
Well Depth (ft.):	57	May:	0
Well Casing Height (ft.):	0	June:	0
Well Casing Depth (ft.):	49	July:	3,677,006
Screen Length (ft.):	8	August:	2,710,123
		September:	0
Pump Setting (ft.):	0	October:	0
		November:	3,189,587
Approved Daily Pumping Volume (MGD):	1.5	December:	5,039,630
Source Metered:	Yes	Total Amount Pumped:	34,303,419
Date of Meter Installation:		Total # of Days Pumped:	194
Type of water metered for source:	RAW	Maximum Single Day Pumped Volume:	308,868
Last Meter Calibration:	3/26/2013	Date of Maximum Amount Pumped:	7/17/2013



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Individual Ground Water Source Statistics

Source ID:	2187000-06G
Source Name:	WELL 6
Location:	NEAR NORFOLK RD
	MILLIS
Status:	A
Source Availability:	ACTIVE

		Withdrawal Units:	GAL
Latitude:	42.150273	January:	0
Longitude: -	71.34026	February:	0
Source Watershed:	CHARLES	March:	0
Well Type:	GRAVEL-PACKED	April:	2,396,353
Well Depth (ft.):	62	May:	6,483,179
Well Casing Height (ft.):	0	June:	7,124,587
Well Casing Depth (ft.):	47	July:	2,482,320
Screen Length (ft.):	15	August:	878,962
		September:	0
Pump Setting (ft):	0	October:	3,569
		November:	0
Approved Daily Pumping Volume (MGD):	1.5	December:	0
Source Metered:	Yes	Total Amount Pumped:	19,368,970
Date of Meter Installation:		Total # of Days Pumped:	89
Type of water metered for source:	RAW	Maximum Single Day Pumped Volume:	370,678
Last Meter Calibration:		Date of Maximum Amount Pumped:	6/24/2013



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Comments or additional information regarding this section



Surface Water Sources

No Data Found

Comments or additional information regarding this section:



Purchased Water Sources

No Data Found

Comments or additional information regarding this section



Water Production & Consumption Information

How to report in Gallons vs. Million Gallons

When Converting gallons to Million gallons, decimal point moves 6 places to the left.

	If Reporting in Gallons (Gal)	If Reporting in Million Gallons (MG)
Example 1	45,562,100	45.5621
Example 2	340,212	0.340212
Example 3	631,020,000	631.02
Example 4	96,543	0.096543

Volume Units

☒ Gallons (GAL) ☐ Million Gallons (MG) ☐ No Meter

FINISHED Water Production and Consumption Summary for Reporting Year :

Finished Water means water that is introduced into the distribution system of a public water system and is intended for distribution and consumption without further treatment, except as treatment necessary to maintain water quality in the distribution system (e.g. booster disinfection, addition of corrosion control chemicals).

Month	(1) Amount of finished water from own sources (GAL)	(2) Amount of finished water purchased from other systems (GAL)	(3) Amount of finished water sold to other systems (GAL)	(4) Net finished Water that entered your distribution system (1) + (2) - (3) = (4) (GAL)
January	16,203,349	0	0	16,203,349
February	17,440,287	0	0	17,440,287
March	17,984,574	0	0	17,984,574
April	16,690,818	0	0	16,690,818
May	20,637,032	0	0	20,637,032
June	20,247,807	0	0	20,247,807
July	22,733,380	0	0	22,733,380
August	21,864,116	0	0	21,864,116
September	19,243,415	0	0	19,243,415
October	17,632,290	0	0	17,632,290
November	15,788,277	0	0	15,788,277
December	16,947,671	0	0	16,947,671
TOTAL	223,413,016	0	0	223,413,016
Maximum Daily Finished Water Consumption: Volume (GAL): 993,317 Date: 6/24/2013				



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City: MILLIS
PWS Class: COM

RAW Water Production and Consumption Summary for Reporting Year :

Raw Water means water in its natural state, prior to treatment and is usually the water entering the first treatment process of a water treatment plant.

☐ Same as finished water (it is not necessary to complete Table if same volume as above)

Month	(1) Amount of raw water pumped from own sources (GAL)	(2) Amount of raw water purchased from other systems (GAL)	(3) Amount of raw water sold to other systems (GAL)	(4) Net raw Water Consumption (1) + (2) - (3) = (4) (GAL)
January	16,648,631	0	0	16,648,631
February	17,885,569	0	0	17,885,569
March	18,565,133	0	0	18,565,133
April	17,271,377	0	0	17,271,377
May	21,091,505	0	0	21,091,505
June	20,702,280	0	0	20,702,280
July	23,313,939	0	0	23,313,939
August	22,444,675	0	0	22,444,675
September	19,583,980	0	0	19,583,980
October	17,972,855	0	0	17,972,855
November	16,254,928	0	0	16,254,928
December	17,414,322	0	0	17,414,322
TOTAL	229,149,194	0	0	229,149,194

Maximum Daily Raw Water Pumping:	Volume (GAL): 1,012,669	Date: 6/24/2013
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Summary of Water Sold

Sold Water

System Name	PWS ID#	Total Volume Sold	Water type
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Metered Finished Water Consumption by Service Type

U.S. EPA requires every PWS to report what their water is used for in order to characterize each system. In this table, report the percentages of metered water for each category below, ONLY for those categories over 10%. For municipal water suppliers, most of the water will be reported as Residential Area. If any other categories are more than 10% of your metered use, report it in the appropriate category. If any category is less than 10%, do NOT report it. The percentage do NOT have to add to 100%, since water use in some categories will be less than 10% and therefore is not reported.

ONLY report uses for categories over 10% of total metered use. Report ALL metered water use in the Water Management Distribution System Form (if appropriate)

%	Primary Service Area	Type	%	Primary Service Area	Type
<input type="checkbox"/>	<input type="radio"/> Yes	Day Care Center	<input type="checkbox"/>	<input type="radio"/> Yes	Other Residential
<input type="checkbox"/>	<input type="radio"/> Yes	Dispenser	<input type="checkbox"/>	<input type="radio"/> Yes	Other Transient
<input type="checkbox"/>	<input type="radio"/> Yes	Homeowners Association	<input type="checkbox"/>	<input type="radio"/> Yes	Recreation Area
<input type="checkbox"/>	<input type="radio"/> Yes	Hotel/Motel	90	<input checked="" type="radio"/> Yes	Residential Area
<input type="checkbox"/>	<input type="radio"/> Yes	Highway Rest Area	<input type="checkbox"/>	<input type="radio"/> Yes	Restaurant
<input type="checkbox"/>	<input type="radio"/> Yes	Industrial/Agricultural	<input type="checkbox"/>	<input type="radio"/> Yes	Retail Employees
<input type="checkbox"/>	<input type="radio"/> Yes	Interstate Carrier	<input type="checkbox"/>	<input type="radio"/> Yes	School
<input type="checkbox"/>	<input type="radio"/> Yes	Institution	<input type="checkbox"/>	<input type="radio"/> Yes	Sanitary Improvement District
<input type="checkbox"/>	<input type="radio"/> Yes	Medical Facility	<input type="checkbox"/>	<input type="radio"/> Yes	Summer Camp
<input type="checkbox"/>	<input type="radio"/> Yes	Mobile Home Park	<input type="checkbox"/>	<input type="radio"/> Yes	Secondary Residences
<input type="checkbox"/>	<input type="radio"/> Yes	Mobile Home Park, Principal Residence	<input type="checkbox"/>	<input type="radio"/> Yes	Service Station
<input type="checkbox"/>	<input type="radio"/> Yes	Municipality	<input type="checkbox"/>	<input type="radio"/> Yes	Subdivision
<input type="checkbox"/>	<input type="radio"/> Yes	Other Area	<input type="checkbox"/>	<input type="radio"/> Yes	Water Bottler
<input type="checkbox"/>	<input type="radio"/> Yes	Other Non-Transient Area	<input type="checkbox"/>	<input type="radio"/> Yes	Wholesaler
<input type="checkbox"/>	<input type="radio"/> Yes	Commercial			

Summary of Treatment Plant Losses (complete only if finished water volume is less than raw water)

☐ No treatment plant losses (not applicable)

Treatment Plant ID:	Total Raw Water into treatment plant last year (raw pumped + raw purchased - raw sold):	-	Total Finished Water from treatment plant last year:	=	Total Water Lost to Treatment Process last year:
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Briefly describe the fate of the waste product (slurry or sludge) produced by your treatment process (discharge to sewer, groundwater discharge, settling lagoons, re-circulate back into treatment plant, etc.):

X. Comments or additional information regarding this section

FINISHED WATER PRODUCTION WAS OBTAINED BY DIVIDING TOTAL MONTHLY TREATMENT LOSSES BY 12 AND DEDUCTING THIS VALUE FROM THE RAW WATER MONTHLY VALUES. NOTE: WELL #3 METER WAS CALIBRATED AND SHOWN TO BE RECORDING 7% ABOVE NORMAL. THIS 7% VALUE EQUATES TO 3,172,937 MORE GALLONS PUMPED THAN ACCURATE. PUMPING VALUES IN THIS REPORT DO NOT REFLECT THIS ERROR. IF INCLUDED, THE UAW VALUE WOULD BE SUBSTANTIALLY LOWER.



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Water Management Act Annual Report - Distribution

All public water suppliers distributing 100,000 gallons per day or more must complete Tables DS-1 through DS-5 and Tables DS-7 and DS-8. Tables DS-6 and DS-9 are optional. Instructions for completing Tables DS-1 through DS-8 are included in the ASR Instructions available at MassDEP's website. If you have any questions concerning completion of the Distribution System Report, please contact Richard Friend with the WMA Program at (617) 654-6522 or email him at richard.friend@state.ma.us

Table DS-1 Summary of Leak Detection Activities During the Reporting Year

1. Total miles of water mains	42
2. Miles of mains surveyed this year	21
3. Number of leaks found	1
4. Number of leaks repaired	1
5. Estimated volume lost (mg) if a reliable estimate can be made	.25
6. Date of last leak detection survey of entire system:	10/21/2013 (mm/dd/yyyy)

Table DS-2 Water Conservation - Limits on Withdrawals

1. Did your PWS implement mandatory nonessential outdoor water use restrictions in the reporting year?

☒ Yes ☐ No

2. If yes, why did you institute mandatory restrictions (check all that apply)?

- a. ☒ Required by WMA permit

☒ Calendar trigger in permit

☐ Streamflow trigger in permit

☐ Other trigger in permit

If "Other Trigger"
then describe:

- b. ☐ Reason other than permit requirement

Describe:

3. Please characterize the type of mandatory restrictions that were in place (Check all that apply)

☐ Total outdoor ban

☐ Hand-held only

☒ Hourly Describe: 9:00 AM - 5:00 PM

Daily: ☐ Odd/Even ☐ Twice/Week ☐ Once/Week ☐ Other Daily

If "Other Daily"
then describe:



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4. If you instituted mandatory restrictions, on what dates were restrictions in place?
(you may have had only one period of restriction)

	Start Date	End Date
Period 1	<input type="text"/>	<input type="text"/>
	(mm/dd/yyyy)	(mm/dd/yyyy)
Period 2	<input type="text"/>	<input type="text"/>
	(mm/dd/yyyy)	(mm/dd/yyyy)
Period 3	<input type="text"/>	<input type="text"/>
	(mm/dd/yyyy)	(mm/dd/yyyy)

5. Indicate if you plan or expect to institute nonessential outdoor water use restrictions in the upcoming summer. If you hold a WMA permit with Seasonal Limits on Nonessential Outdoor Water Use conditions, indicate whether you plan on instituting calendar-based or streamflow trigger-based outdoor water use restrictions. Remember that if you plan on instituting calendar restrictions, they must be in place by May 1. Streamflow-based restrictions must be in place once the trigger specified in your WMA permit has been reached for three consecutive days. Refer to your permit for specific nonessential outdoor water use requirements. Indicate if you plan on instituting restrictions even though you do not hold a WMA permit with outdoor water use restriction or do not hold a permit at all.

<input checked="" type="checkbox"/>	Planning to institute calendar-based nonessential outdoor water use restrictions per WMA permit.
<input type="checkbox"/>	Planning to institute streamflow-based nonessential outdoor water use restrictions per WMA permit.
<input type="checkbox"/>	Planning to institute nonessential outdoor water use restrictions for reasons other than WMA permit requirements.
<input type="checkbox"/>	Do not intend on instituting nonessential outdoor water use restrictions.

Please Note: Enter volumes in Tables DS-3, DS-4, DS-5 and DS-6 in million gallons per year (mgv).

Example 1: if a volume is 654,120,152 gallons, enter 645.120152 mgv.

Example 2: if a volume is 580,123 gallons, enter 0.580123 mgv.

Example 3: if a volume is 86,000 gallons, enter 0.086 mgv.



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Table DS-3 Metered Finished Water Use Complete Table DS-3 to account for all of your metered water volumes (e.g. permanent and temporary; private and municipal/government; billed and non-billed). Do not include water sold to other PWSs, which is reported on the Water Production & Consumption Information form

Use Category	No. of Service Connections	Total Volume (mgy)	Category Description
Residential	2422	175.664	Water provided to residences in your distribution system, including for-profit apartments, condos, and seasonal homes. All water used for lawn watering at residential buildings belongs in this category.
Residential Institutions			Water provided to institutions with residential population such as colleges. It is optional to account institutions volumes separately (may be included in Residential above - see instructions).
Commercial/Business	112	14.351	Water served to businesses and other commercial entities.
Agricultural	3	.406	Water used mainly to grow food, raise animals, or run a garden center.
Industrial	28	3.380	Water used mainly for industrial purposes.
Municipal/Institutional/Non-profits			Water used for municipal purposes, including schools, playing fields, municipal buildings, treatment plant; non-profits such as churches; non-residential institutions such as private schools.
Other*			Water used for purposes not included in above categories.
TOTALS	2565	193.801	Total number of service connections and metered volume.

* If you include a volume under "Other", list the use(s):

UNACCOUNTED FOR WATER (UAW)

Table DS-4 Confidently Estimated Municipal Use volume To qualify as confidently estimated municipal use calculations/documentation for each estimated use must be attached to this ASR or mailed to MassDEP. If no documentation is provided, DEP will count the volumes as unaccounted for water. See ASR Instructions for more detail. Leak detection volumes are not counted as a confidently estimated municipal use. Optional Excel spreadsheets for calculating confidently estimated use can be found at the MADEP website at <http://www.mass.gov/eea/agencies/massdep/water/approvals/drinking-water-forms.html#16>

Confidently Estimated Municipal Use (CEMU)	Estimated million gallons per year
Fire protection & training	3.620
Hydrant/water main flushing/main construction	+ 2.897
Flow testing	+ 0
Bleeders/ Blow offs	+ 0
Tank overflow & drainage	+ 0
Sewer & stormwater system flushing	+ 0
Street cleaning	+ .06
Source meter calibration adjustments	+ .242
Major water main breaks (not leak detection)	+ 1.258
Total Confidently Estimated Municipal Use	= 8.077

YOU MUST PROVIDE DOCUMENTATION FOR ALL OF YOUR CEMU VOLUMES.

Are you attaching electronic files to the eASR that document your CEMU volumes?

☒ Yes ☐ No



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Paper copies of CEMU volumes may be mailed to:

Mass DEP

1 Winter St.

Boston MA 02108

Attn: Water Management Act Program

Table DS-5 Unaccounted for Water To calculate UAW, subtract total metered use and confidently estimated municipal use volumes from the total volume of finished water entering your distribution system.

	Million Gallons/Year (MGY)	% of Total Water Available for Distribution
Total Finished Water Available for Distribution (Total Net Finished Water from Production Form)	223.413	100%
Total Metered Use (System Total Metered Use from Table DS-3)	- 193.801	- 86.7 %
Total Confidently Estimated Municipal Use (Total from Table DS-4)	- 8.077	- 3.6 %
Unaccounted for Water (UAW)	= 21.5	= 9.6 %

Table DS-6 Sources of Unaccounted for Water (Optional) Use this table to provide estimated volumes of your unaccounted for water.

Known or Suspected Source of Unaccounted for Water	Estimated Volume (MGY)
Leak Detection	.25
Water Theft	
Meter Malfunction/mis-registration	
Other (specify):	
Other (specify):	
Total:	0.25

RESIDENTIAL GALLONS PER CAPITA DAY (RGPCD)

RGPCD is a performance standard for public water suppliers serving municipalities and is a measure of the average amount of water a resident uses each day during the reporting period. High RGPCD values are associated with unrestricted outdoor water use, especially lawn watering. See ASR Instructions for further explanation and examples. There are two steps to determine your RGPCD number: Step 1: Determine the residential population served by your system (2 options to choose from). Step 2: Calculate RGPCD from population served and residential metered water volume.

RGPCD Step 1 - Choose one of two options to determine Population Served

Population Option 1: Accurate Count (census data): If your PWS serves an entire municipality, then use the most recent local or Federal census number for the total residential population. [Click Here](#) for 2010 U.S. census populations for MA cities and towns. Partially served communities can use the most recent local or Federal census if private well users and/or those served by other PWS systems are subtracted out (attach documentation to this ASR). Communities with high seasonal fluctuations can pro-rate the population for the duration of the influx. See ASR Instructions for further detail and examples.

Population Option 2: Estimate from Households Served If your PWS serves a portion of one or more communities and you cannot obtain a reliable census, click on the following link to open an excel spreadsheet for estimating your population. [Click Here](#). This estimate is calculated from the number of households connected to your distribution system and the average household size. Save the spreadsheet onto your computer for use in subsequent years' reporting. If you are using a spreadsheet from your assessor's



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office or planning board to estimate number of households served, attach the spreadsheet or mail it to DEP and report the population served on Table DS-7 below.

If mailing Population Calculations or documentation send to:
Mass DEP
1 Winter St.
Boston MA 02108
Attn: Water Management Act Program

Table DS-7 Residential Population Served

Community(ies) served by PWS is (are) :	Fully Served
Method of Determining Population Served:	Option 1(Census)
Census Type (Federal or Local):	Local
Census year:	2013
Population Served:	8527

RGPCD Step 2 – Calculate RGPCD

Table DS-8 Residential Gallons per Capita Day To determine RGPCD, your metered residential volume (million gallons/year) is divided by 365 days. The result is then divided by the population served and multiplied by 1,000,000 to obtain gallons per person per day. If you include Residential Institutions volume in your RGPCD volume, also include the Residential Institutions population. See ASR instructions

Residential Water Use (million gallons)	/ 365	/ Population Served	X 1,000,000	=	Residential Gallons per Capita Day (gallons/person/day)
175.664	/ 365	/ 8527	X1,000,000	=	56

Table DS-9: Use this table to provide comments or additional information regarding this section of the ASR. You may explain discrepancies, provide supplemental information, or provide any other information to assist MassDEP in processing the data in your ASR.



Water Management Act Annual Report - Basin Withdrawal

Instructions for completing Tables BW-1 through BW-4 are included in the ASR Instructions available at MassDEP's website. If you have any questions concerning completion of the Water Management Act Annual Report, please contact Richard Friend with the WMA Program at (617) 654-6522 or email him at richard.friend@state.ma.us

Table BW-1 Permit & Registration Information

River Basin (Watershed)	Registration Number	Permit Number
20-CHARLES	22018702	9P422018703

Water Withdrawal by Watershed

Calculation of Daily Average Withdrawal: Use Table BW-2 to document the reporting year withdrawal volume(s) by watershed. Table BW-3 compares the reporting year actual withdrawal volume(s) to the volume(s) authorized under your WMA registration(s) and/or permit(s). The total volumes for each source and their respective watershed are reported in the Ground Water Sources and for Surface Water Sources report forms. Enter the total of all sources for each watershed in Table BW-2.

Enter volumes in million gallons per year(MGY). Example: If you pumped 400,512,000 gallons in the year, enter 400.512.

Table BW-2 Average Daily Withdrawal by Watershed

River Basin	Total Raw Water Pumped in the reporting year (mgd)	/ 365 =	Watershed Average Daily Withdrawal (mgd)
20-CHARLES	229.149	/ 365 =	0.63

Table BW-3 WMA Authorized Volume vs. Actual Withdrawal Volume

River Basin	Registered Volume (mgd)	+ Permitted Volume (mgd)	= WMA Authorized Withdrawal Volume (mgd)	- Daily Avg. Water Use (mgd) (from Table BW-2 above)	= Difference*
20-CHARLES	0.63	+ 0.17	= 0.80	- 0.63	= 0.17

* A positive difference indicates that the volume withdrawn is less than the authorized volume. A negative value indicates that more water was pumped than is authorized and that your PWS may be out of compliance.

Table BW-4 Permit Special Conditions

Review your WMA permit and list any Special Conditions of your WMA permit that require submission of an annual report to MassDEP. If the required report is being submitted with this ASR, please note in Table BW-4. If a required report was submitted earlier in the year, please provide the date submitted.

WMA Permit Special Condition Requiring Annual Report to MassDEP	Report Attached to ASR	If not attached, date submitted to MassDEP
	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="text"/> (mm\dd\yyyy)

If mailing annual report, send to:

MADEP

1 Winter St.

Boston MA 02108

Attn: Water Management Act Program



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Table BW-5 Use this table to provide comments or additional information regarding this section of the ASR. You may explain discrepancies, provide supplemental information, or provide any other information to assist MassDEP in processing the data in your ASR.