Total Coliform Rule

Sample Siting Plan

[Enter PWS Name]

[Enter PWS ID]

**[Date of Last Revision]**

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# Purpose of the Sample Siting Plan

Section 19-13-B102(x)(3) of the Regulations of Connecticut State Agencies (RCSA) requires all water systems to have a sample siting plan that identifies sampling sites that are representative of water throughout the water system’s distribution system. The sample siting plan must be made available to the Department of Public Health for review upon the request of the Department and at the time of the system's sanitary survey. Water systems shall collect all Routine and repeat Total Coliform Rule compliance samples must be collected in accordance with this plan.

# Public Water System Basic Information

PWS Name: **[Type the PWS Name]** PWS ID: **[Enter PWS ID]**

PWS Classification:Choose an item.Population Served:  **[Type the PWS name]**

Annual Operating Period (mm/dd to mm/dd): **[Type the Annual Operating Period]**

# Routine Total Coliform Monitoring Requirements

The minimum number of routine samples for total coliform and physical parameter analysis will be collected in accordance with the monitoring period frequency and Sample Collection Schedule below. The minimum number of required samples will be collected even if the water system has an E. coli MCL violation or has exceeded a coliform treatment technique trigger before the end of the monitoring period.

Current Routine Monitoring Period Frequency: Choose an item.

Minimum Number of Routine Samples Required: [Enter Minimum Number of Samples]

Sample Collection Schedule

Samples will be collected at regular time intervals throughout the month in accordance with the following Sample Collection Sample:

|  |
| --- |
| **[Enter Collection Schedule Details]** |
| Note: Ground water systems that serve 4,900 or fewer people may collect all required samples on a single day if the samples are taken from different sites. |

The following items also apply to the routine monitoring requirements:

1. All sample sites for routine total coliform and physical parameter sampling have been located at consumer premises, dedicated sampling stations or other designated compliance sampling locations.
2. **All routine sample sites necessary to meet the requirements of the Total Coliform Rule are listed on the *Public Water System Sampling Point Inventory* form and have been reported to the Department of Public Health Drinking Water Section (DWS)**. Whenever sampling points are activated or inactivated, the Sampling Point Inventory form will be updated and sent to the DWS.
3. The residual disinfectant concentration will be measured at the same point and at the same time as the water system collects routine total coliform samples. The presence of a residual disinfectant concentration in a sample when the system does not have department approval to use continuous chlorination shall invalidate the sample and it will not count toward meeting the minimum Total Coliform Rule monitoring requirements.
4. More than the minimum number of routine samples required may be collected to investigate potential problems in the distribution system and serve as a tool to assist in uncovering problems.
   1. The results of such samples will be used in calculating whether any coliform treatment technique triggers have been exceeded if:
      1. The samples were collected in accordance with this sample siting plan; and
      2. The samples were collected from sites that are representative of water throughout the distribution system.
   2. If any of the results of such samples are total coliform-positive, repeat samples will be collected in accordance with this sample siting plan.

# Seasonal Water System Requirements

A seasonal system is a non-community water system that is not operated as a public water system on a year-round basis and starts up at the beginning and shuts down by depressurizing and dewatering all or a portion of its distribution system at the end of each operating season.

This system [Choose an item] a seasonal system.

Seasonal Start Date (mm/dd): **[Type Seasonal Start Date]** Seasonal End Date (mm/dd): **[Type Seasonal End Date]**

Seasonal System Type:

**Depressurized Seasonal (NPAY):** The entire water system is depressurized (i.e. all of the waterlines are drained) for a period of time each year. A certification will be submitted to the DWS certifying that the required start-up procedures were completed prior to opening.

**Partially-Depressurized Seasonal (PPAY):** The water system is partially-depressurized (i.e. some of the waterlines are drained) for a period of time each year. A certification will be submitted to the DWS certifying that the required start-up procedures were completed prior to opening.

**Fully-Pressurized Year-Round Seasonal (APIO):** The entire system stays fully-pressurized (i.e. none of the waterlines are drained), but no one has access to the water for a period of time during the year (must be at least an entire calendar quarter). A certification is not required to be submitted to the DWS prior to opening.

The normal routine monitoring frequency for a seasonal system is monthly. Whenever this system is allowed to reduce monitoring to quarterly, the routine quarterly samples will be taken in accordance with the Quarterly Sample Collection Schedule Table below. The time period or periods for monitoring were selected based on site-specific considerations, such as monitoring during periods of highest demand or highest vulnerability to contamination.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Quarterly Sample Collection Schedule | | | | | | | | | | | | | | | |
| 1st Qtr | Jan | Feb | Mar | 2nd Qtr | Apr | May | Jun | 3rd Qtr | Jul | Aug | Sept | 4th Qtr | Oct | Nov | Dec |
| Sample Collection Schedule Justification: Enter Reason for Collection Schedule. | | | | | | | | | | | | | | | |

**The information in the table above has been submitted to the DWS on the *Total Coliform Rule Sampling Site Plan for Seasonal Public Water Systems* form for review and approval.**

# Repeat Total Coliform Monitoring Requirements

When a routine sample is total coliform positive, the following samples will be collected:

* 1 repeat sample from the sampling tap where the original total coliform-positive sample was taken;
* 1 repeat sample at a tap within 5 service connections upstream; and
* 1 repeat sample at a tap within 5 service connections downstream of the original sampling site.

## Standard Repeat Sampling Locations

Repeat total coliform samples collected from within 5 service connections upstream and 5 service connections downstream will be identified using the Sampling Point IDs in the Standard Repeat Sampling Locations table below. These sampling point IDs will be used when reporting results to the DWS from all repeat sampling locations within 5 service connections upstream or downstream of all original routine sampling locations.

|  |  |
| --- | --- |
| **Standard Repeat Sampling Locations** | |
| **Sampling Point ID** | **Sampling Point Description** |
| UPSTREAM | WITHIN 5 SERVICE CONNECTIONS UPSTREAM |
| DOWNSTREAM | WITHIN 5 SERVICE CONNECTIONS DOWNSTREAM |

## Alternative Fixed Repeat Sampling Locations

In addition to the Standard Repeat Sampling Locations, the alternative fixed locations listed in the table below have been identified for repeat sampling. The selected locations are representative of a pathway for contamination and are representative of the water quality in the distribution system.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Alternative Repeat Sampling Locations** | | | | |
| **Routine Sampling Point ID1** | **Facility  ID** | **Sampling Point ID** | **Upstream or Downstream** | **Reason for Selection** |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**The information in the table above has been submitted to the DWS on the *Total Coliform Rule Sampling Site Plan for Alternative Repeat Sampling Locations* form for review and approval.**

# Special Purpose Samples

A special purpose sample is a sample that is collected to determine whether disinfection practices are sufficient following routine maintenance work, such as pipe placement, replacement, or repair, on the distribution system and that is not collected in accordance with a system's sampling plan. Special purpose samples will not be used for compliance to determine whether any coliform treatment technique triggers have been exceeded. Repeat samples are not considered special purpose samples.