

# SUMMARY

## Florida Administrative Code (F.A.C.) Chapter 62-610 Monitoring Reclaimed Water for *Cryptosporidium* and *Giardia*

The following is a short synopsis of the requirements for monitoring reclaimed water for *Cryptosporidium* and *Giardia* from the FL-DEP. For the full rule, please follow this link: <http://www.dep.state.fl.us/legal/rules/wastewater/62-610.pdf>.

In accordance with Chapter 62-610 of the Florida Administrative Code (F.A.C.), sampling for *Cryptosporidium* and *Giardia* is required for reuse activities where high level disinfection is required. These include:

- [Part III public access reuse \(Rule 62-610.463\(4\), F.A.C.\)](#)
- [Part V indirect potable reuse and aquifer recharge \(Rule 62-610.568, F.A.C.\)](#)
- [Part VII permitted systems - reclaimed water for open cooling towers \(Rule 62-652\(6\)\(c\), F.A.C.\)](#)
- [Pilot Testing for systems that are required to provide full treatment and disinfection \(Rule 62-610.564, F.A.C.\)](#)

Please see the specific monitoring requirements for each rule referenced given below.

### **Part III: 62-610.463 Monitoring and Operating Protocol.**

- a. For treatment plants having capacities of 1.0 mgd or larger, the permittee shall sample the reclaimed water for *Cryptosporidium* and *Giardia* as follows:
  1. Sampling shall be conducted at one time during each two-year period. Intervals between sampling shall not be greater than two years.
  2. Samples shall be taken at a point immediately following the disinfection process.
- b. For treatment plants having capacities less than 1.0 mgd, the permittee shall sample the reclaimed water for *Cryptosporidium* and *Giardia* as follows:
  1. Sampling shall be conducted at one time during each five-year period. Intervals between sampling shall not be greater than five years.
  2. Samples shall be taken at a point immediately following the disinfection process.

### **Part V: 62-610.568 Monitoring and Operating Protocol.**

10. Except as noted in subsection 62-610.568(12), F.A.C., the permittee shall sample the reclaimed water for *Cryptosporidium* and *Giardia*. The following requirements shall be met:
  - a. Sampling shall be conducted quarterly. Intervals between sampling shall not exceed three months.
  - b. Samples shall be taken at a point immediately following the final treatment or disinfection process within the treatment facility.

- c. Sampling for *Cryptosporidium* and *Giardia* shall be required only for the following types of projects:
  - 1. Discharge to Class I surface waters, as described in Rule 62-610.554, F.A.C.
  - 2. Discharge to waters contiguous to or tributary to Class I surface waters, as described in subsection 62-610.555(1), F.A.C.
  - 3. Injection projects used for ground water recharge or salinity barrier control, as described in Rule 62-610.560 or 62-610.562, F.A.C.
  - 4. Discharges to surface waters that are directly connected to ground water, which serve as ground water recharge, as described in subsection 62-610.555(4), F.A.C.
- 11. For projects involving discharge to waters upstream of Class I surface waters, as described in subsection 62-610.555(2), F.A.C., the permittee shall sample the reclaimed water for *Cryptosporidium* and *Giardia*. The following requirements shall be met:
  - a. Sampling shall be conducted at one time during each two-year period. Intervals between sampling shall not exceed two years.
  - b. Samples shall be taken at a point immediately following the disinfection process.

#### **Part VII: 62-610.652 Waste Treatment, Disinfection, and Monitoring.**

- 6. Monitoring.
  - a. For facilities that provide reclaimed water for use in open cooling towers, the permittee shall sample the reclaimed water for *Cryptosporidium* and *Giardia*. The following requirements shall be met:
    - 1. Sampling shall be conducted at one time during each two-year period. Intervals between sampling shall not exceed two years. This sampling frequency is independent of the treatment plant's capacity.
    - 2. Samples shall be taken from at a point immediately following the disinfection process.

#### **Pilot Testing Program: 62-610.564**

- 1. Pilot testing is required for all projects that are required to provide full treatment and disinfection, as described in Rule 62-610.563(3), F.A.C.
- 2. The pilot testing program shall be designed to demonstrate the ability of the selected treatment processes to meet the requirements of Part V of Chapter 62-610, F.A.C., and to generate a supply of reclaimed water that can be used to evaluate the suitability of the reclaimed water for ground water recharge or indirect potable reuse. Pilot testing shall be done using wastewater/reclaimed water.
- 3. The pilot testing program shall accumulate 12 months of data.
- 4. The pilot testing program shall include the following:

- a. An affirmative demonstration that the treatment and disinfection processes proposed for inclusion in the wastewater treatment facility are capable of meeting the full treatment and disinfection requirements contained in Rule 62-610.563(3), F.A.C., and that the reclaimed water will be of sufficient quality to protect public health and environmental quality.
- b. An evaluation of Enterovirus, *Cryptosporidium*, *Giardia*, and helminths in order to demonstrate that the wastewater treatment facilities are capable of producing a reclaimed water that is pathogen free (concentrations of pathogens are less than detection).

Link to Chap. 62-610 FAC: <http://www.dep.state.fl.us/legal/rules/wastewater/62-610.pdf>.