



GUARDIAN
Manufacturing

Research & Development Laboratory

2750 Dillard Road, Suite 12, Eustis, FL 32726

Phone 352.483.3333 Fax 352.483.3334

An exclusive laboratory provider for



OZONE DEMAND AND DECAY STUDY SAMPLING PROTOCOL

For the ozone demand and decay study, the lab requires at least **4** gallons of the representative process water. If the sample containers have not been provided by Guardian, then the use of clean, 1 gallon plastic water jugs are acceptable. When taking the sample, it is **very** important for the water samples to be as representative of the process water as possible.

1. Before sampling, ensure that all system processes are operational and in nominal operating conditions.
2. **If sampling from a Control Tank:**
 - a. Find a location in the tank that would represent the bulk conditions of the water.
Do **not** take a sample near a make-up water line or some other liquid addition process.
 - b. Submerge each container to at least elbow depth and turn the container up, allowing the water to partially fill it.
 - c. Remove the container and dump the water out an arms distance away from the sampling location.
 - d. Repeat this process, including the cap, **3 times** in order to completely rinse each container.

If sampling from a Process Stream:

- a. Once the best location for sampling is chosen, prepare the sample containers for sampling by rinsing them out with the sample water, including the cap, **3 times**.
3. After rinsing the containers, fill them completely to the top and replace the cap. Ensure that there is no airspace bubble in the top of the sample containers.
4. Wrap black electrical tape around the bottom of the caps (to prevent leaks).
5. Place the sample containers in a cooler filled with sealed bags of **ice or frozen ice packs**.
6. **Complete the Chain of Custody form, listing any possible chemical contaminants.**
Ensure the Sample Description, Matrix, Preservative, and Lab Analysis Requested sections are complete.
Seal the Chain of Custody in a zip lock bag and place it inside the cooler.
NOTE: Incomplete documentation will create delays in processing.

7. **Samples must be shipped overnight to the following address:**

Guardian R & D Lab
Attn: Thoram Charanda
2750 Dillard Road, Suite 12
Eustis, Florida 32726
Phone#: (352) 483-3333