

# Diquat

## SAMPLE COLLECTION PROCEDURE

### Reference Method EPA 549.2

**Read instructions carefully.**

**Samples may be rejected if ALL instructions are not followed.**

#### Safety Concerns:

- **Caution!** Sample collection requires use of chemicals, handle with care. Sample bottles contain chemicals.
- Open containers slowly and carefully.
- Do not rinse out containers.

#### Sample Bottle:

- 500 mL amber plastic bottle with 50 mg of Sodium Thiosulfate ( $\text{Na}_2\text{S}_2\text{O}_3$ ) and 1.5 mL vial of 1:1 Sulfuric Acid.

#### Shipping:

- Ship as soon as possible. The sample must arrive at the laboratory within 3 days of collection.

#### Sampling locations:

- Sample at the first tap following treatment (treated water).

#### Prior to Collection:

- If gel packs will be used for cooling samples in the field until shipping with wet ice, be sure to freeze the gel packs for at least 48 hours prior to use.

#### Sample collection procedures:

1. Attach the pre-printed label to the bottle. If you do not have a pre-printed label, write the following information using indelible ink on the generic bottle label: PWSID, PWS Name, and Location ID.
2. Remove any attachments from the sample tap.
3. Turn on cold water tap and run for 4 to 5 minutes or until water temperature has stabilized, whichever is longer. If using a single lever faucet, make sure the lever is all the way to the cold side. Reduce flow so the stream is steady and the width of a pencil.
4. Remove the sample bottle cap and hold in hand. Do not touch the underside of the cap or the inside of the bottle. Quickly position the bottle under the water flow and fill to nearly full (to bottom of neck of container).
5. Remove from flow and add 1.5 mL vial of sulfuric acid to the water sample.

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6. Cap bottle securely and agitate for 15 seconds.
7. Upon completion of sampling immediately (within 15 minutes) place sample in cooler with cooling material.

### **Complete the Chain-of-Custody form using a ballpoint or permanent pen:**

1. Name of the sample collector.
2. Date and Time collected (include a.m. or p.m.).
3. Field Number (if applicable).
4. Put your signature on the "Relinquished By" line, including date and time. The date and time are when the sample is put in the return mailer and sealed. If samples pass hands prior to packaging, both parties must sign, date, and time. The first party would put down the date and time of the transfer, and the second party would put down the date and time the sample is packaged.

### **Shipping and Handling:**

1. Prepare package for shipping.
  - a. Place the pre-chilled bottle, with pre-printed label attached, in the mailing container.
  - b. Insert the completed Chain-of-Custody in the container.
  - c. Add enough fresh cooling material (wet ice) to shipping container to maintain a sample temperature between 0.0 and 6.0° C, with no evidence of freezing.
2. Ship to the Eurofins Scientific Inc.

### **Courier Service (UPS Next Day Air Saver)**

Eurofins Eaton Analytical, LLC  
110 South Hill Street  
South Bend, IN 46617

If you have questions, call 651-201-4700, or email [health.drinkingwater@state.mn.us](mailto:health.drinkingwater@state.mn.us).

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