Standard Operating Procedure

SOP Number: 02-18-4151
Service: Research
Operating Section: Husbandry
Unit: CMF
Title: Free Chlorine Test

Purpose:
To outline instructions for performing the free chlorine test within the medium range at the automatic watering source (039).

Procedure:

1) Activate power to the meter. The measurement screen displays.
2) If HR (High Range) is not selected, select HR.
3) Select Save, then HR is saved.
4) Open the bottle and rinse it 3 times with water taken from the valve after the holding tank which is after chlorine injection.
5) Fill the bottle to the 5 ml mark with the water to be tested.
6) Replace the cap and wipe off any liquid or fingerprints on the bottle.
7) Remove the test meter cap and place the bottle into the holder with the flat edge facing the keypad.
8) Place the meter cap over the bottle.
9) When 0.0 displays, the meter is zeroed.
10) Remove the meter cap.
11) Remove the bottle from the holder and pour the contents of two DPD free chlorine reagent packets into the bottle.

IMPORTANT: Perform steps 12 through 16 within one minute of adding reagent.
12) Replace the cap on the bottle and gently shake the bottle for 20 seconds.
13) Wipe off any liquid or fingerprints on the bottle.
14) Place the bottle into the holder with the flat edge facing the keypad.
15) Place the meter cap over the bottle.
16) Within one minute, the chlorine concentration displays on the meter screen. Record the reading.
17) Turn off power to the meter.
18) Remove the meter cap from the meter and then remove the bottle from the holder.
19) Discard test solution, rinse bottle, and allow bottle to air dry before placing bottle in test kit container.
20) Place the meter cap on the meter and place the meter into the test kit container.
21) Record the reading on the Automatic Watering System Free Chlorine Test log.

OFFICE USE ONLY:

APPROVALS

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