



**NEPHROLOGY PROGRAM  
DEPARTMENT POLICIES AND PROCEDURES**

**Biomed Neph - Section 03 - Water Quality Management - Neph Tech 3-21  
Environmental Water Sampling  
No.: 01705 (TOH Standardized Policy Number)**

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**ISSUED BY:**

Nephrology Technical Practice Committee

**DATE OF APPROVAL:**

2018/04

**APPROVED BY:**

Program Clinical Director / Division Head

**LAST REVIEW/REVISION DATE:**

N/A

**CATEGORY:**

Water Quality Management

**IMPLEMENTATION DATE:**

2018/04

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**PURPOSE:**

- In order to ensure patient safety and to meet CSA-ISO standards, Nephrology Biomedical Technologists shall sample and obtain water analysis results of raw and treated water for the purpose of dialysis

**FREQUENCY:**

- Annual on all in-centre water treatment systems raw water
- Annual on all in-center water treatment systems product water (portable systems included)
- Annual on all home Hemodialysis water treatment systems raw and product water operating on city sourced
- Semi-Annual on all home Hemodialysis water treatment systems raw and product water (including non-R.O. systems) operating on private source water (wells)

**DEFINITION(S):** N/A

**ALERTS:** N/A

**SUPPLIES REQUIRED:**

- Mask
- Gloves
- Environment water test kit (Caduceon Lab contract #CSERREMS23131)

- Alcohol swabs
- Cooler
- Ice packs

#### **PROCEDURE:**

1. Ensure a vehicle is available from Riverside Campus to pick up and deliver to Caduceon Lab within 24 hours of sample being taken.
2. Fill out Caduceon label appropriately on each bottle.
3. Put on mask and gloves and gather the required supplies.
4. Where available, clean source port with alcohol swab and rinse for ten (10) minutes, if source has an aeration screen it must be removed prior to obtaining sample.
5. Sample systems using aseptic technique.
6. Place bacteria sampling bottle in a cold environment (2 to 4-degree C) until sample can be delivered to Caduceon lab for analysis.
7. Fill out appropriate Caduceon form for each sample.
8. Enter information in NephroCare database and complete Equipment Maintenance Logsheet.

#### **RELATED POLICIES / LEGISLATION:**

#### **REFERENCES:**

1. CSA-ISO 13959-15 *Water for haemodialysis and related therapies*
2. CSA-ISO 26722-16 *Water treatment equipment for haemodialysis applications and related therapies*

#### **COMMENTS / SIGNIFICANT REVISIONS: N/A**