



ANALYTICAL LABORATORY · ISO/IEC 17025 ACCREDITED

REPORT NUMBER

LAB-2026-11408

FINAL

CLIENT

Kestrel Medical Center
Central Sterile Processing
1465 Whitmore Parkway
Cleveland, OH 44106

SAMPLE

Reverse osmosis water, post-polish
Point of use, sterilizer 3

SAMPLE ID

KMC-RO-0904-03

COLLECTED

04 Sep 2026, 09:40 EDT
By D. Whitcomb, in duplicate

RECEIVED

04 Sep 2026, 15:12 EDT

ANALYSIS

05–06 Sep 2026

REPORTED

07 Sep 2026

PURCHASE ORDER

KMC-PO-88214

Results

NO.	ANALYTE	METHOD	RESULT	UNIT	REFERENCE RANGE	ASSESSMENT
1	pH at 25 °C	SM 4500-H+	6.8	pH	6.5 – 8.5	Within
2	Conductivity	SM 2510 B	0.9	µS/cm	1.3 max	Within
3	Total organic carbon	SM 5310 C	0.31	mg/L	0.50 max	Within
4	Total hardness as CaCO ₃	SM 2340 C	< 1.0	mg/L	1.0 max	Within
5	Chloride	EPA 300.0	0.42	mg/L	1.00 max	Within
6	Iron, total	EPA 200.7	0.014	mg/L	0.050 max	Within
7	Heterotrophic plate count, 48 h	SM 9215 B	138	CFU/mL	100 max	Exceeds
8	Bacterial endotoxin	USP <85> LAL	0.06	EU/mL	0.25 max	Within

Interpretation and recommendation

Seven of eight analytes are within the reference ranges specified for sterilizer feed water at this facility. The heterotrophic plate count of 138 CFU/mL exceeds the action limit of 100; the duplicate returned 129, so the result is reliable rather than a plating artefact. Endotoxin remains well within limit, consistent with biofilm in the distribution loop rather than a breach of the membrane.

We recommend sanitisation of the loop downstream of the polish cartridge, replacement of the point-of-use filter at sterilizer 3, and resampling at two points after seventy-two hours. Sterilizer 3 need not be withdrawn from service on this result alone; the resample should be treated as urgent.

ANALYST

J. OSEI-BONSU · CHEMIST

APPROVED BY

P. N. RAGHUNATHAN · LABORATORY MANAGER

DATE OF ISSUE

07 SEPTEMBER 2026

Results relate only to the items tested. This report may not be reproduced except in full without the laboratory's written approval. Measurement uncertainty on request; samples retained thirty days. LAB-2026-11408