

FIELD TECHNICIAN QUICK-REFERENCE CHECKLIST

UV Photometric Ambient Ozone Analyzer (TEI 49C / API 400E)

DOCUMENT TITLE:	Photometric Ozone Analyzer Quick Checklist	DOC NUMBER:	CHK-MET-O3-001
LEAD SPECIALIST:	Kadeem Manning	EFFECTIVE DATE:	September 2026
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Field Verification & Calibration Tasks

Step #	Verification / Service Task	Target Requirement / Parameter	Status
1	Shelter Environment Audit	Shelter temp between 20°C and 30°C	☐ Pass ☐ Fail
2	Datalogger Channel Status	Take O3 channel offline on ESC 88xx logger	☐ Pass ☐ Fail
3	Particulate Filter Replacement	Install clean Balston PTFE filter disk	☐ Pass ☐ Fail
4	Zero Baseline Test	Supply zero air for 15 min; verify 0.0 ± 2 ppb	☐ Pass ☐ Fail
5	Level 2 Standard Warm-Up	Transfer standard powered ON ≥ 30 min	☐ Pass ☐ Fail
6	Multi-Point Linearity Check	4 upscale levels; slope = 1.00 ± 0.03 , $r \geq 0.999$	☐ Pass ☐ Fail
7	Optical Cell Inspection	Clean quartz windows; verify PMT frequency	☐ Pass ☐ Fail
8	Sample Pump Flow Test	Flow rate = 0.8 to 1.2 L/min	☐ Pass ☐ Fail
9	Nightly Precision Check Setup	Verify automated span/zero purge sequence	☐ Pass ☐ Fail
10	System Return to Service	Unflag O3 channel; document logbook & forms	☐ Pass ☐ Fail

Field Technician Notes & Site Observations

Record optical cell status, Level 2 transfer standard serial numbers, pre/post slope values, and pump rebuild notes:

PREPARED & APPROVED BY:	Kadeem Manning Lead Field Specialist & QA Lead	SIGNATURE: _____ —	DATE: _____ —
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