

Field Technician Quick-Reference Checklist: Geonics EM31-MK2 Ground Conductivity Meter

System: Geonics EM31-MK2 Electromagnetic Induction Meter | Form ID: CHK-GEONICS-EM31-2026

Tech Name:	_____	Date:	____ / ____ / 2026
Station ID:	_____	Serial #:	_____

#	Verification Step / Action	Target Parameter / Criteria	Status
1	Personal Metal De-Check	All rings, watches, keys, and buckles removed	☐ Pass ☐ Fail
2	Battery Voltage Test	Mode = BAT; Meter reading $>1000\text{ }\mu\text{S}$ (min 720)	☐ Pass ☐ Fail
3	Thermal Stabilization	5-minute warm-up completed in shade	☐ Pass ☐ Fail
4	Calibration Site Check	Metal-free location $>30\text{ m}$ from fences/lines	☐ Pass ☐ Fail
5	Inphase (I/P) Nulling	Horizontal at 1.5 m height; $I/P = 0.00 \pm 0.50\text{ ppt}$	☐ Pass ☐ Fail
6	Horizontal Q/P Zero (H)	Set Q/P Zero to $H = 10.0\text{ mS/m}$	☐ Pass ☐ Fail
7	Vertical Dipole Check (V)	Rotate to Vertical; verify $V = 2H = 20.0\text{ mS/m}$	☐ Pass ☐ Fail
8	Zero Correction Adjustment	If $V \neq 2H$, adjust $H_{\text{new}} = H + (V-2H)$	☐ Pass ☐ Fail
9	Sensitivity Deflection	1 turn CW yields $+20\text{ to }+26\text{ mS/m}$ shift	☐ Pass ☐ Fail
10	Cross-Fleet Test Point	Agrees with fleet reference station $\pm 1.0\text{ mS/m}$	☐ Pass ☐ Fail

FIELD OBSERVATIONS & INTERFERENCE LOG	PREPARED BY SIGN-OFF
Notes / Anomalies:	Prepared by: Kadeem Manning Title: Lead Field Specialist Signature: _____ Date: ____ / ____ / 2026