

CALIBRATION AND VERIFICATION LOG RQ-2023-07-03-42

FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID:

ARYA

RQ-

SEST2307

+ RQ-2023-07-

10-24 SMP

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

06/20/2023

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro- meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Charlie Hoey	7/10/23	1039	24.0	760.5	8.4	8.42	100.1	—	1.09	P/F	L/F
ICV	"	"	1042	24.1	760.0	8.4	8.42	100.2	—	1.09	P/F	L/F
CCV	T. Chichester	"	1530	21.1	760.2	7.7	7.72	100.5	—	1.09	P/F	L/F
CCV											P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Charlie Hoey	7/10/23	1045	230209D	02/24	1000	1000	P/F	L/F
ICV	"	"	1048	220725D	08/23	100	99.2	P/F	L/F
CCV	T. Chichester	"	1535	230209E	02/24	5000	5029	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Charlie Hoey	7/10/23	1052	230209B	08/24	7.01	24.4	7.01	-225	P/F	L/F
Calibr.	"	"	1058	230505A	11/24	4.00	24.3	4.00	154.3	P/F	L/F
Calibr.	"	"	102	230209A	08/24	10.01	24.1	10.01	-189.0	P/F	L/F
ICV	"	"	105	230209A	08/24	10.01	24.1	9.98	-189.1	P/F	L/F
CCV	T. Chichester	"	1537	230209B	08/24	7.00	24.3	7.05	-21.3	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

If mV are recorded: slope from 7 to 10 1106.5, slope from 4 to 7 1710.8 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 06/20/2023

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Charlie Hoey	7/10/23	709	0.00	0.00	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: