



HOHONU

Fully Managed Surface-Water Elevation Monitoring Network

Proposal in Response to RFP No. 20260423

Water Elevation Monitoring Services – Annual Contract

Charlotte County, Florida

Proposal Due: 3:00 p.m. (EST), June 9, 2026

Submitted by: Hohonu, Inc., as the accountable prime contractor

Primary Contacts

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Cover Letter

June 9, 2026

Charlotte County Purchasing Division

18500 Murdock Circle, Suite 344

Port Charlotte, Florida 33948-1094

Attn: Rhiannon Mills, Senior Contract Specialist

Re: Proposal for RFP No. 20260423 - Water Elevation Monitoring Services - Annual Contract

Dear Ms. Mills:

Hohonu, Inc. is pleased to submit this proposal in response to Charlotte County RFP No. 20260423, Water Elevation Monitoring Services - Annual Contract.

Hohonu is submitting as the accountable prime contractor for a fully managed surface-water elevation monitoring network. Our proposed scope includes site verification, sensor recommendations, equipment, installation coordination, NAVD88 survey coordination, commissioning, data platform access, API access, QA/QC, alerts, maintenance coordination, training, technical support, storm-event support, and long-term network operations.

Hohonu understands that Charlotte County is procuring qualifications for a five-year program covering up to 30 locations and that Addendum #3 states pricing should not be included in the proposal. Accordingly, this submission focuses on qualifications, technical approach, management plan, experience, and capabilities. Final scope, site count, sensor mix, and pricing can be discussed during negotiations if Hohonu is selected as the top-ranked firm.

Hohonu provides both non-contact radar and non-contact ultrasonic/acoustic monitoring technologies and will recommend the appropriate technology for each site based on site conditions and County priorities. Hohonu's relevant Florida experience includes Lee County, Pinellas County, FDOT / Smart North Florida, and Charlotte County's existing deployment.

Hohonu will serve as the accountable prime contractor and will coordinate Florida-based local/regional field support through Sea & Shoreline, LLC, who Hohonu has partnered previously with for past projects. Hohonu has also established Florida-licensed Professional Surveyor and Mapper support for NAVD88 survey and datum-control services through ATHCA Surveying, Inc. as primary survey resource, with supplemental local survey capacity through Britt Surveying.

Hohonu acknowledges receipt of Addenda #1, #2, and #3 and has incorporated them into this proposal. This proposal is submitted as an irrevocable offer for 120 days from proposal opening.

Sincerely,

Kevin Mukai

COO, Hohonu, Inc.

kevin@hohonu.io | 808-224-1909

Compliance / Crosswalk Matrix

The matrix below maps the RFP's scope, minimum qualifications, technical requirements, and evaluation criteria to the proposal sections where each item is addressed. Pricing is intentionally omitted in response to Addendum #3.

RFP / Evaluation Requirement	Where Addressed	Response Summary
RP-19 Intent / five-year surface-water monitoring network	Executive Summary; V; VII	Turnkey managed network for real-time data, alerts, continuous records, storm documentation, modeling, and infrastructure decisions.
RP-20 Minimum qualifications	III; VI; VII; Appendices C, D, G	Florida and hurricane-prone experience, government service delivery, similar references, survey partnership, field response, software/API, QARTOD-aligned QA/QC, storm support, and uptime evidence package.
RP-21 Technical specifications	V; Appendix E	Non-contact radar and ultrasonic/acoustic stations with solar/battery power, LTE Cat-M1 where available, high-frequency sampling, open data, and site-specific selection.
RP-22 Installation and surveying	II; IV; V.D; Appendix D	Hohonu-managed installation waves, Florida-based field support, NAVD88 survey coordination, PSM-certified deliverables where required.
RP-23-26 Platform, visualization, reporting, formats, API	V.E; Appendix F	Dashboard/mobile access, SMS alerts, exports, RESTful API, JSON/CSV, historical access, data ownership, and portability.
RP-24 QA/QC	VII.C; Appendix G	QARTOD-aligned checks, diagnostics, raw/corrected data distinction, flags, staff review, and traceable corrections.
RP-27 Maintenance and support	VII.B/D; Appendices G, I	Remote diagnostics, field response, spares, storm-mode support, training, quarterly reviews, and defined escalation.
Addenda #1-#3	Cover Letter; Appendix A	Acknowledged and incorporated.
Evaluation Sections I-XI	Sections I-XI	Proposal follows the County's Consultant Evaluation Form order.
Required forms and certifications	Appendix A; separate County forms package	Signature, Drug-Free Workplace, E-Verify, Human Trafficking Affidavit, Scrutinized Companies certification, addenda acknowledgments, insurance, and subconsultant forms to be assembled in the portal package.

Executive Summary

Charlotte County is procuring a fully managed surface-water elevation monitoring network for real-time water-level data and alerts, continuous elevation records, storm surge and flood documentation, and monitoring across coastal, tidal, riverine, canal, roadway, and urban stormwater environments. Hohonu proposes to deliver this program as one accountable managed network rather than a collection of disconnected sensors, dashboards, cellular plans, maintenance workflows, and data systems.

Hohonu is qualified for this work because we already operate public-agency flood and water-level monitoring networks in Florida and other coastal, hurricane-prone environments. Relevant examples include Lee County, Pinellas County, FDOT / Smart North Florida, Charlotte County's existing deployment, and public-sector data integration supporting NWS/Tallahassee weather and water-level users.

Hohonu will serve as the accountable prime contractor for network design, site-specific sensor selection, equipment provisioning, installation coordination, NAVD88 survey coordination, commissioning, platform/API access, QA/QC, alerts, maintenance coordination, training, technical support, storm-event support, and long-term operations. Florida-based field support will be coordinated through Sea & Shoreline, LLC. NAVD88 survey and datum-control requirements will be supported through ATHCA Surveying, Inc. as the primary Florida PSM survey resource, with supplemental local capacity through Britt Surveying.

Final site count and sensor mix will be determined jointly with County staff during design. Radar will be prioritized for exposed, high-energy, debris-prone, large-air-gap, or public-safety-critical sites. Ultrasonic/acoustic stations will be recommended where conditions are sheltered, stable, shorter-range, and technically appropriate. Both technologies operate through the same Hohonu platform, API, alerting, QA/QC, maintenance, and support workflows.

For applicable tidal stations, Hohonu Tides+ can further support site-specific tide prediction, storm-surge identification, king-tide awareness, seasonal high-water outlooks, datum-aware water-level interpretation, and coastal flood planning. This gives Charlotte County both real-time operating visibility and better post-event documentation for planning, vulnerability assessment, and resiliency funding.

Hohonu's proposal is organized around four commitments:

1. One accountable managed-service provider
2. Site-specific radar vs. ultrasonic/acoustic selection
3. Open, County-owned data
4. Florida-based field response and survey coordination through local partners such as Sea & Shoreline - with Hohonu accountability.

I. Team Proposed for This Project

Evaluation weight: 5 points.

Hohonu will manage internal project management, field operations, data/platform operations, QA/QC, support, surveying coordination, and local/regional field response.

Hohonu remains responsible for contract performance, County communication, subcontractor coordination, schedule, quality control, data delivery, and long-term support.

The proposed team's project experience is demonstrated through Hohonu's recent similar public-agency deployments described in Section VI, including Lee County, Pinellas County, FDOT / Smart North Florida, Charlotte County's existing deployment, and Boston Emergency Management.

Role	Proposed Personnel / Resource	Responsibilities
Principal-in-Charge / Project Executive	Brian T. Glazer, PhD, CEO	Executive oversight, contract accountability, senior technical guidance, escalation support, and resource coordination. Brian will not be substituted without County permission.
Project Manager	Kevin Mukai, COO	Day-to-day County communication, schedule, decision tracking, risk and issue management, subcontractor coordination, and delivery. Kevin will not be substituted without County permission.
Field Operations Lead	Noah Pentelovitch, Hohonu	Deployment planning, installation coordination, commissioning, equipment preparation, spares, and field documentation.
Platform, Data, QA/QC Lead	Ryan Searcy, PhD, Hohonu	Dashboard, API, QA/QC, data quality review, data exports, user access, platform configuration, integration support, and advanced analytics.
Customer Success / Support Lead	Ikaika Bishop, Hohonu	Training, documentation, help desk coordination, quarterly reviews, onboarding, and support escalation.
Science / Tidal Analytics Advisor	Greg Dusek, Hohonu Science Advisor	Coastal water-level analytics, tide and storm-surge interpretation, tidal datums, and Tides+ use cases. Former NOAA CO-OPS Chief Scientist and national expert in coastal water-level hazards.
Local / Regional Field Partner	Sea & Shoreline, LLC (Florida field operations, Ruskin, FL) Lexia Weaver, S&S subconsultant lead and primary point of contact	Florida-based installation logistics, site access, field inspections, routine/corrective maintenance support, storm preparation, spare-equipment logistics, and field documentation in Southwest Florida.
Primary Florida PSM Survey Resource	ATHCA Surveying, Inc. / Russell S. Strayer, PSM Florida LS6890 active; Surveyor of Record for LB8562 active	NAVD88 survey planning, benchmark/control review, signed/sealed survey documentation
Supplemental Local Florida PSM Capacity	Britt Surveying / Collin Barry Naaman, PSM LS7527 active; Surveyor of Record for LB8601 active	Local survey support, sensor/reference elevation verification, re-survey support

Sea & Shoreline, LLC will serve as Hohonu’s Florida-based local/regional field subconsultant for installation logistics, field inspections, maintenance support, storm preparation, spare-equipment logistics, and site documentation. Hohonu has previously partnered on field work with Sea & Shoreline. NAVD88 survey and datum-control work will be performed by Florida-licensed PSM resources through ATHCA Surveying, Inc. as the primary survey resource, with supplemental local capacity through Britt Surveying. Hohonu will manage all field and survey coordination and integration of survey information into the Hohonu platform.

Detailed personnel backgrounds and relevant experience are provided in Section III and Appendix B.

II. Proposed Management Plan

Evaluation weight: 20 points.

Hohonu will manage Charlotte County's network as a multidisciplinary deployment and operations program. The management plan converts County objectives into a County-approved deployment plan, then moves each site through installation, survey, commissioning, platform/API setup, alert configuration, training, and ongoing operations.

During design and deployment, Hohonu will hold regular implementation check-ins with the County project team, with frequency adjusted to the deployment stage. Hohonu anticipates weekly or biweekly check-ins during active design and installation, then quarterly operational reviews after commissioning unless a storm event, outage, maintenance issue, or County request warrants additional coordination.

The work plan is organized around Design Phase activities in Steps 1–7 and Construction / Implementation Phase activities in Steps 8–10.

A. Team Organization and Work Plan

Step	Activity	Output
Design Phase		
1. Kickoff	Confirm County stakeholders, preliminary sites, decision process, communication cadence, data/API needs, alert objectives, and initial schedule.	Kickoff notes, contact list, decision log, issue log, initial schedule.
2. Site intake and classification	Review maps, flood-prone areas, roadway concerns, water-quality/modeling needs, existing Charlotte deployment information, and alerting use cases.	Preliminary site inventory and use-case matrix.
3. Sensor selection review	Recommend radar or ultrasonic/acoustic by site based on exposure, air gap, debris, wave/turbulence, mounting, and criticality.	Site-by-site sensor recommendation matrix.
4. Field feasibility review	Evaluate access, mounting, solar, communications, vandalism risk, safety, and maintenance access.	Field feasibility notes and risk items.
5. Survey planning	Identify NAVD88 survey needs and coordinate survey approach with ATHCA Surveying, Inc. as the primary Florida PSM resource and Britt Surveying as supplemental local survey capacity. Sea & Shoreline may support site access and field logistics as needed, but signed/sealed survey deliverables will be produced by Florida-licensed PSM resources.	Survey plan, preliminary site survey list, assigned PSM resource, and survey deliverable tracker.

6. Data/API/alert planning	Define user groups, dashboard views, API/export needs, QA/QC communication, alert thresholds, and storm-event workflows.	Data access plan, alert plan, user-access plan.
7. Final deployment plan	Compile final site list, sensor type, installation method, survey need, schedule, and open risks.	County-approved deployment plan.
Construction Phase		
8. Installation and field documentation	Install approved sensor stations; document mounting conditions, GPS coordinates, site photos, reference points, access notes, and any deviations from plan.	Installed stations, installation photos, field notes, and as-installed documentation.
9. NAVD88 survey, certification, and metadata integration	Coordinate Florida PSM survey work to establish/verify NAVD88 elevations, benchmark/control information, and sensor/reference elevations. Integrate certified elevations into station metadata.	Signed/sealed survey deliverables, NAVD88 elevations, benchmark/control documentation, and updated station metadata.
10. Commissioning, training, and operational transition	Verify data transmission, sensor readings, platform display, API output, alerts, QA/QC flags, and NAVD88-corrected data. Train County users and transition to ongoing monitoring, maintenance, storm support, and quarterly reviews.	Commissioned stations, acceptance checklist, training materials, support/escalation contacts, and quarterly review cadence.

County decision points include final site list, critical-site designation, sensor type by site, survey requirements, access and permissions, alert thresholds and recipients, dashboard/API users, storm-event communication workflow, and station acceptance criteria.

Task	Hohonu	Sea & Shoreline Field	ATHCA/Britt	Charlotte County
Project management	A/R	C	C	C
Final site approval	R	C	C	A/R
Sensor selection recommendation	A/R	C	C	C
Field installation	A	R	C	C
Site access coordination	A/R	R	C	R
NAVD88 survey	A	C	R	C
Survey integration into platform	A/R	-	C	C
Dashboard/API/alerts	A/R	-	-	C/R
QA/QC and network health	A/R	-	-	C
Training and quarterly reviews	A/R	C as needed	C as needed	C
Maintenance and storm-event coordination	A/R	R as needed	C as needed	C

A = Accountable, R = Responsible, C = Consulted.

B. Controls, Escalation, and Change Management

The Project Manager will maintain a project schedule, site-by-site deployment tracker, decision log, issue log, risk register, action-item list, and station acceptance checklist. Hohonu will not make cost-impacting changes, substitute a materially different sensor approach, relocate

a County-approved site, or change a County-approved alerting/data-delivery configuration without County approval.

Issue Type	Hohonu Lead	County Communication / Decision
Site feasibility issue	Project Manager + Field Operations Lead	Document constraints and recommend alternate location, revised mounting approach, or deferral/removal.
Sensor selection change	Project Manager + Field Operations + QA/QC	Document rationale and obtain County approval before changing the deployment plan.
Survey or installation delay	Project Manager + Sea & Shoreline + ATHCA/Britt	Notify County of benchmark, access, weather, permitting, right-of-way, or safety issues and update the schedule.
Data, telemetry, alerting, or QA/QC issue	Data / Platform Lead + QA/QC Lead	Document affected sites, data-quality status, operational impact, corrective action, and recommended configuration changes.
Scope, budget, or schedule change	Project Manager + Principal-in-Charge	County review and approval before implementation.

Each station will be accepted into operations after installation at the approved location, documentation of sensor type and mounting, solar/battery/telemetry verification, data receipt, dashboard/API visibility, initial diagnostics and QA/QC review, photos and site notes, station metadata, alert status where applicable, and NAVD88 datum integration where required.

Hohonu will establish a storm-event communication workflow during implementation.

The workflow will identify County points of contact, Hohonu escalation contacts, Sea & Shoreline field coordination, critical-site list, alert-recipient review, storm-mode procedures, communication cadence, and field-response constraints during unsafe or access-limited conditions. The workflow will cover pre-storm readiness review, event-period monitoring and communication, and post-event data review, including station status, data availability, observed high-water conditions, alert performance, and any maintenance or field-response needs.

III. Previous Experience of Team Proposed for This Project

Evaluation weight: 10 points.

The proposed team has direct experience delivering the core functions required for Charlotte County, including public-agency coordination, site planning, field deployment, platform/API support, QA/QC, storm-event operations, and survey/datum coordination. This section summarizes the relevant experience of the proposed personnel and resources - detailed similar project sheets and reference contacts are provided in Section VI and Appendix C.

Team Member / Resource	Role	Relevant Experience for Charlotte County
Brian T. Glazer, PhD	Principal-in-Charge / Project Executive	Oceanographer, UH Mānoa Associate Professor, and Hohonu founder with direct experience developing lower-cost coastal sensor and real-time data systems for environmental monitoring , tidal variability, flooding, and community-facing water data. Provides executive oversight, senior technical guidance, and escalation support for Hohonu public-agency monitoring programs.
Kevin Mukai	Project Manager	COO with 10 years of startup operations experience from founding-stage through scaled operations . Responsible for translating County objectives into project execution: stakeholder coordination, schedule management, issue tracking, procurement response, subcontractor coordination, customer communication, and cross-functional delivery across field, platform, support, and technical teams.
Noah Pentelovitch	Field Operations Lead	Hardware and field-operations lead with over a decade of experience designing watertight enclosures and taking products through design, development, prototyping, manufacturing, and production. Supports equipment readiness, deployment planning, field documentation, installation coordination, spare-equipment planning, and corrective-response coordination for Hohonu monitoring networks.
Ryan Searcy, PhD	Platform, Data, QA/QC Lead	Lead Data Scientist responsible for translating raw sensor data into high-quality, actionable data products. Studied environmental engineering at Stanford and brings 10+ years of experience across governmental, nonprofit, academic, and startup settings, with technical focus on data science, machine learning, coastal health, resilience, QA/QC, station metadata,

		dashboard/API outputs, diagnostics, alerts, and advanced analytics.
Ikaika Bishop	Customer Success / Support Lead	Lead Support & Field Operations resource with nearly 20 years of field experience in water quality, aquaculture, and coastal resource management . Supports user onboarding, training, documentation, help desk coordination, deployment support, field-to-platform feedback, and operational support escalation.
Greg Dusek	Science / Forecasting Advisor	Coastal physical oceanographer and former NOAA CO-OPS Chief Scientist with nearly 20 years of experience in coastal hazard observation and prediction. Advises on tide, storm-surge, tidal-datum, coastal flood, high-water, and datum-aware analytics relevant to Hohonu Tides+ and public-agency planning use cases.
Sea & Shoreline	Local / Regional Field Partner	Florida-based aquatic restoration and field-services firm with two decades of habitat-restoration experience, operating from a Ruskin, Florida office with Florida-based field crews. Provides field logistics, site access coordination, field inspections, maintenance support, storm preparation, spare-equipment logistics, and site documentation in Southwest Florida. Lexia Weaver, the S&S NC-based VP/Managing Director, serves as subconsultant lead and primary point of contact; field work is performed by Sea & Shoreline's Florida field staff.
ATHCA Surveying, Inc. / Russell S. Strayer, PSM	Primary Florida PSM Survey Resource	Sarasota-based surveying , mapping, and geospatial firm with aerial, terrestrial, and hydrographic surveying/mapping capabilities. Provides NAVD88 survey planning, benchmark/control review, signed/sealed survey documentation, and survey information needed for Hohonu station metadata.
Britt Surveying / Collin Barry Naaman, PSM	Supplemental Local Florida PSM Capacity	Venice-area surveying firm with more than 30 years serving Sarasota, Charlotte, Manatee, and surrounding counties. Provides supplemental local survey capacity, including topographical and hydrographic mapping, GPS control network analysis, GIS, sensor/reference elevation verification, and re-survey support.

Reference contacts for Hohonu and for the proposed Project Manager, Kevin Mukai, are provided in Appendix C, including reference name, project, and telephone number.

IV. Project Control

Evaluation weight: 10 points.

Hohonu will manage Charlotte County's network using project controls covering schedule, site verification, installation, surveying, platform configuration, risk management, issue escalation, and workload capacity.

A. Schedule

Hohonu will prioritize an initial deployment wave to meet the County's anticipated initial-site timeframe and will commission sites by deployment wave rather than waiting for the full network to be installed before providing dashboard, API, alerting, training, and operational access.

Kevin Mukai will be responsible for assuring the project schedule is met, with executive oversight from Brian Glazer. Hohonu will use a milestone schedule, site-by-site deployment tracker, implementation check-ins, decision log, issue log, risk register, subcontractor coordination, and station acceptance checklist.

Phase	Target Timing After Notice to Proceed / County Authorization	Key Activities / Deliverables
Kickoff and project setup	Weeks 1–2	Confirm County team, communication cadence, preliminary site list, data/API needs, alerting objectives, decision process, and initial schedule.
Site verification and design review	Weeks 1–4	Review access, mounting, solar, cellular, exposure, air gap, criticality, and survey requirements; prepare preliminary sensor recommendations.
Initial deployment plan / first-wave authorization	Weeks 4–6	Confirm first-wave sites, sensor technology, installation approach, survey needs, access requirements, and deployment sequence.
Equipment preparation and mobilization	Begins Weeks 2–6; continues by wave	Prepare radar/ultrasonic stations, deployment packages, field documentation, spare equipment, and Sea & Shoreline mobilization plan.
Initial installation wave	Weeks 6–10, subject to access and County approvals	Install first-wave stations based on site readiness, access, and equipment availability.
Initial commissioning, dashboard/API/alerts, and user training	Begins with first commissioned sites; targeted Weeks 7–11	Verify data transmission, dashboard/API visibility, station metadata, QA/QC review, alert configuration, user access, and initial County training.

Remaining installation waves	Weeks 10–18	Install remaining stations in coordinated waves based on site readiness, access, survey coordination, and County priorities.
NAVD88 survey and datum integration	Within 30 days of installation per applicable site unless otherwise coordinated	Complete survey work for applicable stations and integrate survey outputs into station metadata and data products.
Full operational transition	By deployment wave; final network transition after final installation and survey integration	Transition commissioned stations into ongoing operations, support, maintenance, storm-event readiness, and quarterly review cadence.

B. Deployment Timeframes and Risk Management

As stated above, Hohonu’s deployment plan is wave-based: first-wave installation is targeted for Weeks 6–10 after Notice to Proceed / County authorization, first-wave commissioning and platform configuration begins with those first commissioned sites, and NAVD88 survey/datum integration will be completed within 30 days of installation for applicable sites unless otherwise coordinated with the County.

Risk	Mitigation Strategy
Access constraints	Confirm access during design; coordinate with County staff; identify alternate nearby locations; document access before scheduling field work.
Permitting / right-of-way constraints	Identify needs during site verification; prioritize ready sites; sequence constrained sites later; coordinate through the County project manager.
Mounting complexity	Review mounting before final deployment plan; use common mounting approaches where possible; flag complex sites before installation.
Equipment availability	Prepare equipment based on approved deployment plan; review sensor mix early; maintain spare-equipment planning.
Cellular coverage limitations	Check coverage during site verification; use onboard buffering/backfill; evaluate communications enhancements or satellite options for high-priority locations where justified. The proposed baseline communications approach is LTE Cat-M1 cellular where available. For select high-priority coastal sites where storm-event communications resilience warrants it and where final scope/pricing allows, Hohonu can evaluate satellite communications as an optional enhancement during design.
Storm-season disruption	Build schedule contingency; prioritize critical and ready sites early; conduct pre-storm network review; coordinate field work only when access is safe.
Survey benchmark issues	Coordinate early with ATHCA/Britt Florida-licensed PSM resources; use Sea & Shoreline for access/logistics support as needed; identify benchmark/control approach; document alternate survey methods if needed.
Sensor substitution	Use the Section V.B framework; document the reason, operational risk, and schedule effect; obtain County approval before cost-impacting changes.
Extraordinary repair	Routine maintenance, standard malfunction replacement, and managed-service repair coordination are included. Catastrophic damage, unsafe access, structure failure, third-party damage, relocation, or force majeure will be documented promptly and handled through County-approved repair, replacement, or relocation procedures if cost-impacting.

C. Recent, Current, and Projected Workload

Hohonu currently operates more than 200 monitoring stations across 18 states, including 45 active stations in Florida operated for local and state agencies. Charlotte County's up-to-30-site network is well within this existing operating capacity.

Hohonu's current and projected workload can support Charlotte County because the work will be executed through a repeatable deployment and operations model rather than a one-off custom build. The same core platform, QA/QC workflows, network-health monitoring, support process, and deployment procedures are already used across Hohonu's existing public-agency monitoring networks.

Hohonu will sequence the work by deployment wave, prioritize ready and critical sites first, prepare equipment and platform workflows in parallel with site review, and use Florida-based field and survey resources to reduce schedule risk for installation, maintenance, and storm-season response.

D. Example of Schedule Management on a Similar Deployment

For the City of Boston, Hohonu supported a time-sensitive deployment of 12 water-level monitoring sites for the Office of Emergency Management. The project required coordination across multiple responsible parties, including Boston Emergency Management, Boston DOT, and Woods Hole Group supported survey work. Hohonu was responsible for coordinating the monitoring-network deployment, commissioning stations, configuring the platform, reviewing data quality, and communicating status across the implementation team.

During implementation, some sites required additional coordination after installation because initial post-installation readings did not immediately meet Hohonu's data-quality expectations. Hohonu managed these issues through site-by-site tracking, follow-up review of installation conditions and station configuration, coordination with the installation and survey parties, and direct communication with the City regarding station status, acceptance readiness, and next steps.

The deployment deadline set by the City of Boston was met. Boston has since renewed for Year 2 of its contract. Hohonu will apply the same control approach for Charlotte County: identify responsible parties early, track each site through installation, survey, commissioning, QA/QC, and acceptance, communicate field or data-quality issues promptly, and resolve constrained sites without delaying the broader deployment.

V. Present Proposed Design Approach for This Project

Evaluation weight: 20 points.

A. Overall Installation Approach

Each monitoring location will be configured as a field station connected to Hohonu's cloud platform and County-facing data tools. A typical station includes non-contact radar or ultrasonic/acoustic measurement technology, solar power and battery backup, LTE Cat-M1 telemetry where available, mounting hardware appropriate to site conditions, station metadata and datum reference information, automated data transmission, QA/QC processing and diagnostic monitoring, and dashboard, mobile, API, alert, and export access for County users.

Site Type	Monitoring Objective	Design Considerations
Coastal / shoreline	Storm surge, high tide flooding, king tide impacts, vulnerability assessments.	Wind, spray, wave action, debris, corrosion, large air gaps, and storm exposure.
Tidal / estuarine / canal	Tidal water levels, canal response, surge propagation, Water Quality support.	Bank stability, shelter, air gap, solar exposure, and datum control.
Inland riverine	River stage, flood timing, model calibration, flow-rating support.	Bridge clearance, stage range, debris, turbulence, access, and benchmarks.
Urban stormwater / roadway	Localized flooding, road closure support, low-point monitoring, drainage response.	Short measurement distances, land-surface flooding, traffic safety, vandal resistance.
Critical public-safety	Flood-warning triggers, evacuation-route decisions, EOC situational awareness.	Highest reliability requirement, storm resilience, rapid response planning, and radar priority where appropriate.

B. Radar vs. Acoustic/Ultrasonic Sensor Selection

Hohonu provides both non-contact ultrasonic/acoustic and 80 GHz non-contact radar stations on a common platform, telemetry, dashboard, API, and QA/QC stack. Hohonu's selection framework is conservative for exposed and mission-critical sites: radar is preferred for locations exposed to surge, spray, high winds, wave action, debris, large air gaps, or high public-safety consequence; ultrasonic/acoustic sensors are recommended for sheltered, stable, shorter-range sites where conditions support reliable readings and cost-effective network density.

Site Condition / Environment	Preferred Technology	Why
Open coastal shoreline / exposed tidal sites	Radar	Better suited for surge, spray, wave action, debris, large air gaps, wind, and rain.
Sheltered estuarine / canal sites	Ultrasonic/acoustic, with radar where site geometry, debris, or criticality warrants.	Sheltered conditions can support reliable ultrasonic monitoring and broader network density.
Riverine bridges, high banks, debris-laden or turbulent flow	Radar where stage range, turbulence, debris, or air gap is high.	Radar range and storm stability are better suited to large stage swings and debris-prone flows.
Urban stormwater / roadway low points / culverts	Ultrasonic/acoustic, with radar for critical routes or turbulent culverts.	Short-range sheltered monitoring can be cost-effective; critical routes warrant higher reliability.

Critical public-safety sites	Radar unless site verification supports ultrasonic/acoustic as defensible.	Data degradation at high-consequence sites carries greater operational risk.
Remote or low-cellular-coverage sites	Sensor based on hydrologic exposure; communications evaluated separately.	Measurement technology and communications technology should be evaluated together but not confused.

Specification	Hohonu Response
Measurement technology	Non-contact ultrasonic/acoustic and 80 GHz non-contact radar.
Range	Ultrasonic/acoustic 0.5-10 m; radar up to 30 m.
Resolution / accuracy	1 mm measurement resolution and radar sensor-distance accuracy ± 2 mm. Installed water-surface elevation accuracy depends on NAVD88 survey control, mounting stability, site geometry, and sensor selection. For applicable surveyed stations, Hohonu will coordinate NAVD88 survey deliverables meeting First-order, Class II accuracy or better, as required by the RFP.
Sampling	Ultrasonic/acoustic stations support 30-second averaged sampling and are recommended for sheltered, stable, shorter-range sites. Radar stations use manufacturer-recommended averaged measurements at approximately 3-minute cadence and are recommended for exposed, high-energy, debris-prone, turbulent, large-air-gap, or public-safety-critical sites where storm reliability is the controlling design factor.
Reporting	Data are transmitted every 4–12 minutes depending on station configuration, power, telemetry, and County use case, with onboard buffering/backfill during temporary connectivity loss.
Telemetry	Hohonu stations use LTE Cat-M1 (LTE-M) cellular, the low-power, wide-coverage IoT network class that the major U.S. carriers have designated as the supported successor to legacy 2G and 3G service. AT&T, T-Mobile, and Verizon have all retired their 2G and 3G networks, so LTE Cat-M1 satisfies the connectivity intent of RP-21: continuous cellular telemetry on a network that will remain supported across the five-year contract, rather than fallback to networks that are no longer in service. Stations also provide onboard buffering and automatic backfill, so data recorded during a temporary connectivity interruption is transmitted and stored once the connection is restored. For high-priority, remote, or low-cellular-coverage sites, Hohonu can add satellite communications as an optional enhancement during design, consistent with the County's stated preference for satellite capability in certain locations.
Environmental design	Hohonu stations are designed for outdoor, weather-exposed deployment. The sensor/electronics enclosure meets IP67 environmental protection and uses sealed electronics, weatherproof cabling/enclosures, solar/battery power, and installation-specific weatherproofing appropriate to the mounting location.
Power	Solar-powered, battery-backed stations.
Operating Temperature	-20°C to +60°C

During design, Hohonu will document the recommended sensor type and reporting configuration for each County-approved site, including any site-specific technical exceptions, before deployment approval.

C. Storm Resilience and Maintenance Accessibility

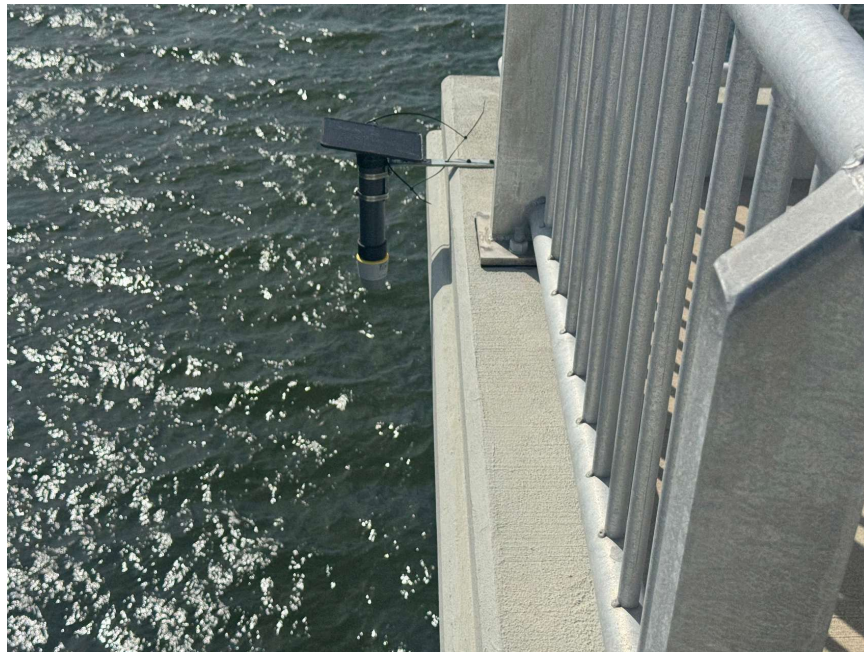
Hohonu designs each installation to remain operational, maintainable, and defensible under the storm, surge, rainfall, and access conditions typical of the Southwest Florida Gulf Coast. Each site will be reviewed for exposure, mounting structure, air gap, solar access,

vandal risk, public-safety criticality, and long-term maintenance access before installation. For County-designated critical public-safety locations, Hohonu will use mounting approaches designed for Category 4+ hurricane wind-load conditions (140+ mph sustained winds) where the selected structure and approved mounting method support that design; for non-critical locations, installations will be designed for sustained winds of 100+ mph.

Storm mode is Hohonu's enhanced operating posture for named storms, tropical systems, hurricanes, or other major flood events. It may include:

- Pre-event review of station health, battery, solar, communications, and data latency
- Critical-site confirmation
- Alert threshold and recipient verification
- Heightened remote monitoring
- Expanded support availability
- County communication regarding degraded, delayed, or offline stations
- Post-event review

Field response is coordinated only when legal access is available and conditions are safe.



Hohonu radar station on a bridge structure, Charlotte County, Florida.

D. Surveying and Vertical Datum Control

Hohonu will manage NAVD88 surveying through Florida-licensed Professional Surveyor and Mapper resources. ATHCA Surveying, Inc. will serve as Hohonu's primary survey resource for NAVD88 survey planning, benchmark/control review, sensor/reference elevation verification, and signed/sealed survey documentation. Britt Surveying will provide supplemental local survey capacity as needed based on site location, schedule, and access requirements.

For each monitoring location, Hohonu will identify the sensor reference point, mounting configuration, station coordinates, and required elevation metadata. The assigned Florida PSM resource will establish or verify vertical control to NAVD88 to meet First-order, Class II accuracy or better, using appropriate methods, which may include differential leveling from

established NGS benchmarks or RTK GNSS with appropriate geoid models, consistent with site conditions and County requirements. Survey deliverables will document benchmark/control information, methods used, closure/error information as applicable, NAVD88 elevations, and signed/sealed certification.

Hohonu will store certified survey elevations in station metadata and use them to convert raw distance-to-water measurements into NAVD88-referenced water surface elevations for dashboard, API, CSV export, alerts, QA/QC, and reporting. If a sensor is relocated, disturbed, or requires datum verification, Hohonu will coordinate re-survey support through the Florida PSM resource.

Hohonu retains the complete survey and elevation record for every station in the platform for the life of the contract and beyond, including benchmark/control information, NAVD88 elevations, survey methods, and station metadata. When a station is re-surveyed or a datum value is updated, the prior elevation and the revised elevation are both retained with effective dates, so historical water-level records remain correctly referenced to the datum in force when they were recorded. This gives the County a continuous, auditable survey-control history across the five-year contract rather than a single point-in-time value.

E/F. Data Platform, API, and Visualization.

Hohonu will provide Charlotte County with a unified data platform for viewing, accessing, exporting, and using real-time and historical water-level information across the monitoring network. The platform supports Emergency Management situational awareness, Water Quality workflows, Public Works and infrastructure planning, GIS integration, hydrodynamic model calibration, storm surge documentation, and resiliency funding support.

Capability	Hohonu Approach
Real-time display and mapping	Current readings, station locations, metadata, trends, and alert status displayed through interactive dashboard and mobile-accessible tools.
Time-series graphing	Users can review trends, zoom into time periods, compare stations, and analyze event behavior.
Multi-user access and role-based permissions	County users across Charlotte County departments can access coordinated platform views. Hohonu can support public-facing views, County-restricted/admin views, and user access levels for viewing, administration, alert configuration, and exports as configured during implementation.
API and exports	RESTful API using HTTPS, secure API-key access, JSON/CSV data access and exports, queries by site/date/parameter/quality flag, historical queries, OpenAPI/Swagger documentation or equivalent, documented rate limits sufficient for County applications, and County access to historical and real-time data at no additional API cost.
Storm mode and transmission frequency	Hohonu's baseline reporting cadence is designed to provide station transmissions every 4 to 12 minutes under normal power and communications conditions, which is more frequent than the County's standard hourly reporting requirement and 15-minute storm-event transmission target. During storm mode, Hohonu will maintain this high-frequency reporting, verify station health and alert configuration, monitor critical sites, communicate degraded/offline status, and support post-event review.
Historical access	Complete historical datasets for project stations available through dashboard, exports, and API.
County ownership and data sharing	Charlotte County owns project data and can access, export, share, publish, distribute, migrate, and archive project data without Hohonu approval, including sharing with public agencies, County consultants, resiliency/funding partners, estuary or watershed programs, and County-authorized public-facing data users.

	Hohonu can also provide direct access or API access to County-designated partners where helpful. Any commercial third-party reuse restrictions, if included in the final agreement, would be limited to use of County data to train or improve a third party's proprietary global models unrelated to County work, and would not restrict County operational use, public-agency sharing, publication, or project-specific consultant use.
Threshold Alerting	Hohonu currently supports SMS alert delivery and in-platform alert/status visibility. Email and mobile push notification delivery are on Hohonu's near-term product roadmap and can be enabled for the County as they are released. During implementation, Hohonu will configure County-approved recipient lists, multiple threshold levels, escalation rules, and storm-event alert workflows around the currently available SMS and dashboard notification capabilities.

Hohonu preserves the distinction between raw observations, corrected measurements, QA/QC-reviewed data, station metadata, diagnostics, and alert status. API access, bulk exports, historical archives, and contract-end data export in open formats are included in Hohonu's managed service approach. Water levels can be presented in multiple vertical datums, including NAVD88, MLLW, and MSL, where survey control and station configuration support it.

Alert thresholds, recipients, escalation rules, and acknowledgement workflows will be configured with County staff during implementation. For critical or unacknowledged alerts, Hohonu can support escalation to additional designated recipients according to a County-approved escalation tree.

Data are visible on the platform within five minutes of transmission, and the dashboard and API reflect new data within one minute of receipt.

Advanced Tidal Analytics and Forecasting

For coastal and tidal monitoring sites, Hohonu will provide advanced tidal analytics where applicable, including site-specific tide predictions, king tide forecasting, seasonal high-water outlooks, and datum-aware presentation of water levels. Hohonu Tides+ combines hyperlocal station observations with NOAA-derived tidal and coastal water-level information to improve the timing and magnitude of predicted high tides. These analytics support flood planning, threshold refinement, public works planning, emergency management awareness, post-event interpretation, and long-term infrastructure planning.

Hohonu will apply these analytics only where site type, observation history, datum control, and County use cases support defensible use. Tides+ is intended to complement, not replace, official National Weather Service, NOAA, or County emergency guidance.

VI. Present Examples of Recently Accomplished Similar Projects

Evaluation weight: 16 points.

Hohonu has designed, deployed, and operated surface-water elevation and flood-monitoring networks for public agencies and water-management stakeholders across Florida and other hurricane-prone coastal environments. These projects combine non-contact water-level sensors, cellular telemetry, public-agency dashboards, API/data access, threshold alerts, ongoing maintenance, QA/QC, and operational support during storm events.

A. Similar Networks

Project / Customer	Scope / Duration	Relevance and Outcome
Lee County, Florida	21 sensors: 15 ultrasonic and 6 radar. Started July 2024. 12 coastal, 4 riverine, 3 urban, and 2 to be deployed soon	Southwest Florida Gulf Coast deployment in hurricane-prone coastal and tidal environments. Highly comparable to Charlotte County because it supports coastal/tidal flood monitoring, storm surge awareness, emergency management, public-facing situational awareness, field maintenance, and long-term managed operations. The network operated during Hurricanes Helene and Milton, providing direct evidence of Hohonu's storm-event monitoring performance in Southwest Florida. Lee County stations are included in Hohonu's Florida uptime evidence package, including storm-event availability during Hurricanes Helene and Milton.
Pinellas County, Florida	15 sensors: 13 ultrasonic and 2 radar. Started May 2025. 8 coastal, 7 urban stormwater	Florida Gulf Coast monitoring network supporting coastal flood monitoring, public-agency data access, dashboard/API workflows, QA/QC, maintenance coordination, and long-term operations. Demonstrates Hohonu's ability to support a County-scale, multi-site coastal network after deployment, including QA/QC, diagnostics, maintenance coordination, and ongoing government-user support.
Smart North Florida / FDOT Pilot	7 radar sensors. Started May 2025. Predominantly urban stormwater	Roadway, canal, and transportation-adjacent monitoring use cases relevant to Charlotte County's urban stormwater, roadway flooding, drainage, and infrastructure decision objectives. Demonstrates radar-based monitoring for roadway, canal, drainage, and transportation-adjacent flood applications, including use cases where water-level data can support road-flood situational awareness and infrastructure decision-making.

Charlotte County, Florida — Existing Deployment	3 sensors: 2 ultrasonic and 1 radar. Coastal sites. Started June 2025.	Direct local operating experience in Charlotte County using mixed sensor technology in the same county where this RFP will be deployed. Demonstrates familiarity with Charlotte County operating conditions, local data needs, and mixed radar/ultrasonic deployment considerations.
Boston Office of Emergency Management	12 sensors: 10 ultrasonic and 2 radar. All urban sites. Started June 2025.	The project required coordination among Boston Emergency Management, Boston DOT, and Woods Hole Group for permitting, installation, and survey support. Some sites required post-installation data-quality follow-up before acceptance; Hohonu managed these issues through site-by-site tracking and client communication. The deployment deadline was met, and Boston renewed for Year 2.

Together, these projects demonstrate that Hohonu has already delivered the principal elements required for Charlotte County: mixed radar and ultrasonic/acoustic deployments, coastal and tidal monitoring, storm-event operations, public-agency dashboard/API access, QA/QC, field maintenance, survey/datum coordination, and long-term managed-service support. Hohonu’s Florida active-network uptime evidence is summarized in Section VII and Appendix G, including 45 active Florida stations over the last six months and storm-event evidence from Hurricanes Helene and Milton.

B. Uptime, Reliability, and QA/QC Track Record

Hohonu operates monitoring networks as managed services, with network-health monitoring, diagnostics, QA/QC workflows, remote support, and field-response procedures. Hohonu measures uptime using defined monitoring intervals so platform availability, station data availability, live transmission availability, API availability, and QA/QC-reviewed usability are not conflated. The uptime evidence below is calculated from expected vs. active 6-minute intervals for active Florida stations with complete station-level detail provided in Appendix G.

Performance Category	Definition	Hohonu Evidence / Treatment
Platform availability	Availability of Hohonu's cloud platform, dashboard, API, and user-facing data environment, excluding scheduled maintenance.	Hohonu target/commitment: 99.5% or greater excluding scheduled maintenance.
Station data availability	Percentage of expected station-level 6-minute intervals that are successfully recorded during a defined measurement period.	Calculated from active-site data by period. Backfilled data are counted as available once stored in the platform/API/archive.
Transmission availability	Whether a station can transmit live data at the expected cadence during the period.	Communications diagnostics and outage logs distinguish cellular/transmission interruptions from sensor measurement availability.
Storm-event performance	Station data availability during named storm / hurricane event windows.	Hurricane Helene and Hurricane Milton evidence is summarized below, with station-level detail provided in Appendix G.
Exclusions / notes	Inactive or not-yet-deployed stations, scheduled maintenance, documented cellular infrastructure interruptions, unsafe access, physical	Hohonu will identify exclusions and station-specific exceptions in County performance reviews and storm-event summaries.

	destruction, vandalism, third-party damage, or force majeure.	
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Summary uptime evidence is provided below. Complete station-level detail for every active station is included in Appendix G, so the full basis for these figures travels within this proposal.

Measurement Period	Active Sites	Metric Basis	Network Availability	Station-Level Notes
Florida active network - last 6 months	45	Expected vs. active 6-minute intervals across active Florida stations	Average station: 99.41% Aggregate intervals: 99.39% Median station: 99.9977%	Excludes one decommissioned station (Fernandina 2). Lowest active station 90.16% (Orange River Bridge). Network exceeds the 95% non-storm threshold.
Hurricane Helene event window	15	Expected vs. active 6-minute intervals across active Florida stations	Average station: 95.45% Aggregate intervals: 97.46% Median station: 99.79%	Minimum: 40.44% at hohonu-205 / Boca Grande, Lee County, FL, a documented station-specific exception during the event window. Network exceeds the 90% storm-event threshold.
Hurricane Milton event window	15	Expected vs. active 6-minute intervals across active Florida stations	Average station: 99.31% Aggregate intervals: 99.31% Median station: 99.69%	Minimum: 96.56% at hohonu-73 / Fernandina 2; next-lowest 97.50% at hohonu-212 / Matlacha Bridge, Lee County, FL. Exceeds 90% storm-event threshold.

Across these networks, Hohonu applies a QA/QC framework aligned with IOOS QARTOD water-level principles, including range, rate-of-change, spike, flat-line, volatility, and missing-data/latency tests, sensor diagnostics, and manual review during storms and commissioning, with raw data preserved for traceability. Data quality is communicated to end users through quality flags consistent with the RFP's terminology (good, suspect, bad, missing) across the dashboard, exports, and API. Full methodology is in Section VII.C; station-level QA/QC evidence is in Appendix G.

VII. Describe Your Experience and Capabilities in the Following Areas

Evaluation weight: 16 points.

A. Continuous Monitoring Operations and Network Management

Hohonu operates water-level and flood-monitoring networks as fully managed services. For Charlotte County, Hohonu will manage field stations, cellular connectivity, data ingestion, QA/QC, dashboard/API availability, alerts, network-health monitoring, technical support, and customer coordination.

Function	Hohonu Capability
24/7 network-health monitoring	Continuously monitor station status, data latency, communications, battery, solar charging behavior, sensor behavior, and data availability.
System monitoring	Monitor data flow from field stations through ingestion, QA/QC, dashboard display, API access, exports, and alerts.
Remote diagnostics	Review battery, solar, communications, last transmission, sample behavior, station status, and health indicators without requiring manual County inspection.

Cellular/data plan management	Manage cellular data plans, SIMs, telemetry configuration, carrier coordination, and connectivity troubleshooting as part of the managed service.
Issue triage	Classify issues by operational impact: informational delays, routine issues, non-critical outages, critical-site issues, and storm-event issues.
County coordination	Coordinate access, critical-site prioritization, storm preparation, alert thresholds, maintenance scheduling, and post-event review.

Stations operate continuously and transmit every 4 to 12 minutes under normal power and telemetry conditions, which is intended to meet or exceed the County's 15-minute storm-event transmission target without requiring a separate mode change. Measurement cadence depends on sensor type and site configuration, where ultrasonic/acoustic stations support 30-second averaged sampling and radar stations use manufacturer-recommended averaged measurements at approximately 3-minute cadence for exposed, high-energy, debris-prone, turbulent, large-air-gap, or public-safety-critical sites where storm reliability is the controlling design factor.

B. Maintenance, Field Response, and Equipment Management

Issue Category	Response Commitment
Remote-resolvable issue	Address through remote support, diagnostics, data review, dashboard/API support, alert review, or customer coordination.
Non-critical field issue	Field response within 14 business days, subject to legal access and safe conditions.
Critical-site issue	Field response within 72 hours for County-designated critical sites or storm preparation, subject to legal access and safe conditions.
Storm-event issue	Prioritized storm-mode review, County communication, and field response when access is safe and available.
Unsafe or access-limited issue	Coordinate with the County once access is safe, lawful, and operationally feasible.

Hohonu will maintain spare equipment aligned to Charlotte County's final network size, sensor mix, critical-site list, and hurricane-season readiness plan. Spare equipment for Charlotte County can be staged with Sea & Shoreline in Florida to support timely field response in Southwest Florida. Hohonu's initial spare philosophy will be approximately 10% of the installed station count, rounded up, with at least one spare unit of each deployed sensor type where practical.

Hohonu's preventive and corrective maintenance program will use continuous remote diagnostics, planned reviews, and field response triggered by diagnostics, County priorities, storm posture, or inspection findings.

Maintenance / Review Activity	Baseline Cadence or Trigger	Scope
Continuous remote diagnostics	Ongoing	Monitor data latency, communications, battery, solar charging behavior, sensor behavior, station status, and data availability.
Quarterly network review	Quarterly with County staff	Review uptime/data availability, QA/QC, maintenance history, alert performance, API/export use, user feedback, and recommended improvements.

Pre-storm readiness review	Before named storms, tropical systems, hurricanes, or major flood events when practical	Review critical-site list, station health, battery/solar, communications, alert recipients, support contacts, spares, and field-response constraints.
Post-event review / inspection	After major events where data, diagnostics, or County priorities warrant and access is safe/legal	Assess degraded, damaged, or offline stations; coordinate repair/replacement logistics and field documentation.
Preventive field inspection	At least annually or as triggered by diagnostics/site criticality, with final cadence coordinated in the deployment plan	Inspect mounting condition, enclosure, solar/battery system, vandalism/weather exposure, and site access conditions.
Corrective maintenance	As needed based on diagnostics, County request, or field finding	Remote diagnosis first, then field response within 14 business days for non-critical issues or within 72 hours for County-designated critical sites/storm preparation, subject to safe and legal access.

Standard firmware updates, platform updates, communications-profile updates, normal service updates, and like-kind malfunction replacements are included as part of the managed service for the approved base network. Hohonu will be responsible for diagnosing, coordinating, and performing repair or replacement of malfunctioning Hohonu equipment under the service agreement, including like-kind replacement at no charge to the County for standard equipment malfunction. Storm damage, vandalism, third-party damage, structure failure, unsafe access, relocation, force majeure, or County-directed changes will be documented, triaged with the County, and repaired or replaced through the service-agreement procedures, subject to safe/legal access and any cost-impacting approvals required under the final contract.

Hardware technology refreshes necessary to maintain the approved service level, platform compatibility, telemetry performance, and supported Hohonu-managed functionality will be included as part of the managed service for the approved base network. Routine maintenance, standard malfunction replacement, and managed-service repair coordination are included. Catastrophic damage, unsafe access, structure failure, third-party damage, relocation, or force majeure conditions will be documented promptly and handled through County-approved repair, replacement, or relocation procedures if cost-impacting.

C. Data QA/QC and Diagnostics

Hohonu's data QA/QC and diagnostic approach is designed to provide reliable, transparent, and traceable water-level data for real-time operations and long-term technical analysis. Hohonu's methodology is aligned with IOOS QARTOD water-level QA/QC principles and adapted to each site's sensor type, datum status, measurement objective, and operating environment.

QA/QC outputs will use clear data-quality flags consistent with the RFP's terminology, including good, suspect, bad, and missing observations, with raw data preserved for traceability and corrected/datum-referenced products provided where survey control is established.

QA/QC Element	Purpose
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Range tests	Identify values outside physically plausible or site-specific expected bounds.
Rate-of-change tests	Flag values that change faster than expected for the site and event context.
Spike tests	Determines if there is a spike in the data given the surrounding points.
Flat-line tests	Detect readings that remain unchanged longer than expected.
Volatility tests	Identify unstable signal behavior beyond expected conditions for the site.
Missing-data / latency checks	Identify data gaps, delayed transmission, or missing expected observations.
Sensor diagnostics	Review battery, solar, communications, sample count, signal behavior, and sensor health.
Manual review	Supplement automated tests during storms, commissioning, maintenance, unusual hydrologic behavior, and customer-reported anomalies.
Raw data preservation	Preserve original measurements for traceability, auditability, engineering review, and post-event analysis.
Corrected data products	Produce datum-referenced water-surface elevations where survey control is established.

D. Technical Support, Training, and Coordination

Hohonu provides standard help desk support from 8:00 AM to 5:00 PM Eastern Time, Monday through Friday, through kokua@hohonu.io and coordinated phone escalation.

During named storm events, tropical systems, hurricanes, and other major flood events, Hohonu moves to storm-mode support with extended availability: a designated storm-event contact reachable outside standard business hours, prioritized response for critical-site and public-safety issues, and active monitoring of critical stations through the event window. Hohonu will confirm the storm-event contact list, escalation tree, and coverage hours with the County before each hurricane season.

Hohonu continuously monitors network health, station status, data latency, communications, battery/solar status, and sensor diagnostics. Detailed storm-mode procedures, including pre-event readiness review, critical-site monitoring, degraded/offline station communication, alert review, and post-event review, are described in Section V.C and Appendix I.

Support Area	Standard Approach	Storm / Critical-Site Approach
General support	Requests submitted through kokua@hohonu.io and triaged by Hohonu support.	Extended-hours storm-event coverage with a designated after-hours contact; elevated priority for critical-site and public-safety issues.
Field issues	Remote diagnosis first, followed by Sea & Shoreline-coordinated field response when needed.	Field response within 72 hours for County-designated critical sites or storm preparation, subject to safe and legal access.
Data / QA/QC issues	Review diagnostics, QA/QC flags, latency, missing data, corrected values, and station metadata.	Heightened monitoring of critical sites, degraded/offline stations, alert thresholds, and data latency.
API / integration issues	Support API credentials, endpoint use, JSON/CSV exports, metadata, and County-selected visualization workflows.	Prioritize issues affecting Emergency Management, Water Quality, or public-safety data use.
Escalation	Project Manager coordinates with Customer Success, Field Operations, Data/Platform, QA/QC, and Sea & Shoreline as needed.	Principal-in-Charge and County-designated contacts engaged for material storm, schedule, scope, or operational issues.

Training will be tailored to County user groups. Emergency Management users may focus on real-time dashboard use, critical-site monitoring, storm-mode procedures, SMS text alerts, degraded/offline station status, and event review. Water Quality and modeling users may focus on historical records, NAVD88-referenced values, raw vs. corrected data, QA/QC levels, exports, and data suitability for calibration or analysis. GIS/IT users may focus on API credentials, endpoints, CSV/JSON exports, metadata, data portability, and integration with County-selected platforms.

For users of Hohonu's advanced tidal analytics, training will also cover Tides+ outputs (tide predictions, king tide forecasting, datum-aware presentation) and their appropriate use alongside official NWS, NOAA, and County guidance.

VIII. Volume of Work

Evaluation weight: 1 point.

Hohonu has received \$9,995 in payments from Charlotte County within the past 24 months. This figure is provided for scoring under Section VIII, Volume of Work, and for completion of the Proposal Submittal Signature Form. Hohonu's existing Charlotte County deployment consists of 2 ultrasonic stations and 1 radar station and gives Hohonu operational familiarity with Charlotte County.

IX. Location

Evaluation weight: 1 point.

Hohonu's prime office is in Honolulu, Hawaii, but project field and survey responsiveness will be supported by Florida-based resources. Sea & Shoreline, LLC will provide local/regional field support in Southwest Florida. ATHCA Surveying, Inc. is located in Sarasota, Florida, and Britt Surveying is located in Venice, Florida, providing regional Florida PSM capacity near Charlotte County for NAVD88 survey support, re-survey needs, and datum-control coordination.

Role	Firm / Resource	Location	Responsiveness
Prime Contractor	Hohonu, Inc.	Honolulu, Hawaii	Accountable for network design, equipment, platform, API, QA/QC, alerts, support, maintenance coordination, subcontractor management, and contract performance.
Local / Regional Field Response Partner	Sea & Shoreline, LLC	Ruskin, Florida	Supports installation, routine/corrective maintenance, storm preparation, field response, site-access coordination, and spare-equipment logistics.
Florida Licensed Survey Partner	ATHCA Surveying + Britt Surveying	Venice, Florida + Sarasota, Florida	Provides NAVD88 survey support, benchmark documentation, certified survey reports, and PSM certification through Florida-licensed resources.
Data / Platform / QA/QC Team	Hohonu	Remote operations	Monitors data flow, platform health, API access, QA/QC, diagnostics, alerts, exports, and network-health status.

This model is not dependent on headquarters proximity alone. It is built around continuous remote network operations, clear escalation paths, defined field-response

commitments, and Florida-based resources capable of supporting installation, maintenance, storm preparation, and post-event response in Charlotte County and Southwest Florida.

X. Litigation

Evaluation weight: 1 point.

The County's Consultant Evaluation Form asks whether the proposer has been named as a defendant or co-defendant in a lawsuit in the last five years and, if so, to describe the circumstances and outcome, including case number, case name, and court. Hohonu has not been named as a defendant or co-defendant in a lawsuit in the last five years.

XI. Minority Business

Charlotte County states that it will consider the proposer's status as a Minority Business Enterprise or certified Minority Business Enterprise, as well as the status of any subcontractors or subconsultants proposed for the project. Hohonu is not currently certified as a Minority Business Enterprise.

Minority Business Category	Hohonu Response
Proposer is a certified Minority Business Enterprise	No
Proposer is a non-certified Minority Business Enterprise	No
Subcontractor / subconsultant MBE status	No MBE status claimed for Hohonu or proposed subconsultants.

Appendices / Evidence Pack

The appendices provide supporting evidence for the scoreable body of the proposal. They are intentionally concise so the body remains the primary evaluation document.

Appendix A. Administrative Forms and Addenda Checklist

Item	Status / Placement
Addendum #1 acknowledgment	Included in cover letter and acknowledged on County forms.
Addendum #2 acknowledgment	Included in cover letter and acknowledged on County forms.
Addendum #3 acknowledgment	Included in cover letter and acknowledged on County forms.
Proposal Submittal Signature Form	Completed and uploaded with portal package.
Drug-Free Workplace Form	Completed and uploaded with portal package.
E-Verify / Unauthorized Alien Workers certification	Completed and uploaded with portal package.
Human Trafficking Affidavit	Completed and uploaded with portal package.
Scrutinized Companies certification	Completed and uploaded with portal package.
Insurance certificates / endorsements	Hohonu and applicable subconsultant documentation to be provided in accordance with County requirements.
Subconsultant forms and MBE information	Sea & Shoreline and survey-related documentation included on County forms.

Appendix B. Key Personnel Bios

Person	Role	Condensed Qualifications
Brian T. Glazer, PhD	Principal-in-Charge / Project Executive	Co-Founder and CEO of Hohonu; Associate Professor of Oceanography at the University of Hawai'i at Mānoa; began early development of Hohonu sensors in 2014. Provides executive oversight, contract accountability, senior technical guidance, resource coordination, and escalation support for public-agency monitoring programs.
Kevin Mukai	Project Manager	COO of Hohonu with 10 years of startup operations experience from founding-stage through scaled operations. Oversees customer delivery, operations, pricing, partnerships, procurement support, subcontractor coordination, and cross-functional execution for public-agency monitoring deployments. Holds an MS in Product Development Technology and BS in Mechanical Engineering from USC.
Noah Pentelovitch	Field Operations / Hardware Lead	Head of Hardware at Hohonu with over a decade of experience designing watertight enclosures and working across product design, development, prototyping, manufacturing, and production. Has developed and launched 90+ products. Leads equipment readiness, deployment planning, installation coordination, commissioning, spares, and field documentation.
Ryan Searcy, PhD	Platform, Data, QA/QC Lead	Lead Data Scientist at Hohonu responsible for translating raw sensor data into high-quality, actionable data products. Has 10+ years of experience across government, nonprofit, academic, and startup environments, with work focused on data science, machine learning, coastal health, and resilience. Supports dashboard/API configuration, QA/QC, metadata, exports, analytics, diagnostics, and Tides+.
Ikaika Bishop	Customer Success / Support Lead	Lead Support & Field Operations resource with nearly 20 years of field experience in water quality, aquaculture, and coastal resource management. Bridges field realities with hardware, software, and

		operations, and supports onboarding, documentation, training logistics, customer communication, support triage, deployment support, and escalation follow-through.
Greg Dusek	Science / Tidal Analytics Advisor	Strategic Scientific Advisor to Hohonu; coastal physical oceanographer with nearly 20 years of experience advancing coastal hazard observation and prediction. Former Chief Scientist for NOAA CO-OPS, with expertise in tide predictions, storm-surge interpretation, tidal datums, high-tide flooding, coastal inundation analytics, and operational public-agency water-level applications.
Lexia Weaver / Sea & Shoreline	Subconsultant Lead	Florida-based aquatic restoration and field-services firm with two decades of habitat-restoration experience, operating from a Ruskin, Florida office with Florida-based field crews. Provides field logistics, site access coordination, field inspections, maintenance support, storm preparation, spare-equipment logistics, and site documentation in Southwest Florida. Lexia Weaver, the S&S NC-based VP/Managing Director, serves as subconsultant lead and primary point of contact; field work is performed by Sea & Shoreline's Florida field staff.
ATHCA Surveying, Inc. / Russell S. Strayer, PSM	Primary Florida PSM Survey Resource	Florida surveying, mapping, and geospatial firm offering aerial, terrestrial, and hydrographic surveying solutions. Provides NAVD88 survey planning, benchmark/control review, signed/sealed survey documentation, and survey information needed for Hohonu station metadata.
Britt Surveying / Collin Barry Naaman, PSM	Supplemental Local Florida PSM Capacity	Venice-area surveying resource with capabilities including boundary survey, topographic and hydrographic mapping, construction layout, GPS control network analysis, and GIS. Provides supplemental local survey capacity, sensor/reference elevation verification, and re-survey support.

Appendix C. Firm and Project Manager References

Firm References

Reference	Project / Agency	Telephone
Benjamin Abes, Director of Public Safety	Lee County water-level / flood-monitoring network	(239) 533-3911
Jessica Beach, Chief Resilience Officer	City of St. Augustine coastal resilience / water-level monitoring project	(904) 209-4227
Clayton Levins, Executive Director	Smart North Florida / FDOT water-level monitoring pilot	(904) 588-3452

Lead Project Manager References

Reference	Project / Agency	Telephone
Brooke Amendola, Director of Operations	City of Boston	(617) 939-8608
Benjamin Abes, Director of Public Safety	Lee County water-level / flood-monitoring network; can speak to Hohonu delivery and Kevin Mukai's project coordination	(239) 533-3911
Clayton Levins, Executive Director	Smart North Florida / FDOT water-level monitoring pilot; can speak to Hohonu delivery and coordination	(904) 588-3452

The County may contact the references above for firm performance and lead project management performance, as applicable.

Appendix D. Local Field and Survey Support

Sea & Shoreline, LLC is proposed as Hohonu's Florida-based local/regional field, with survey support from ATHCA Surveying and Britt Surveying. Hohonu will remain the accountable prime contractor and will manage field assignments, County communication, schedule, documentation, safety coordination, and integration of survey/field outputs into the Hohonu platform.

Support Area	Role
Installation support	Site access coordination, field logistics, mounting assistance, field photos, commissioning support, and installation documentation.
Routine and corrective maintenance	Field inspections, spare-equipment handling, replacement support, and field notes coordinated through Hohonu.
Storm preparation and response	Pre-storm logistics, post-event field coordination when legal and safe access is available, and local/regional response support in Southwest Florida.
Survey and datum control	Coordination of NAVD88 survey work through Florida-licensed PSM resources; final survey deliverables requiring professional certification performed or certified under responsible charge of a Florida-licensed PSM.
Insurance and flow-down terms	Sea & Shoreline has represented its ability to carry customary insurance for this role and support standard public-contract flow-down terms, subject to final subcontract.

Sea & Shoreline Letter of Support

Dear Mr. Mukai:

Sea & Shoreline, LLC confirms that it is available to serve as a local and regional field services subcontractor to Hohonu, Inc. for the Charlotte County Water Elevation Monitoring Services project if Hohonu is awarded. Sea & Shoreline's anticipated role may include installation support, site access and logistics coordination, mounting assistance, field inspections, routine maintenance support, and storm/emergency field response support in Charlotte County and Southwest Florida, subject to site access, safety conditions, and mutually agreed subcontract terms.

Sea & Shoreline carries insurance coverage customary for this type of field services work and can provide a certificate of insurance and comply with standard public-contract flow-down requirements, including E-Verify and public-records requirements, if awarded. Final scope, schedule, site-specific access and safety requirements, and pricing will be subject to mutually agreed subcontract terms and the County-approved deployment plan.

Sea & Shoreline's role does not include signed/sealed NAVD88 survey certification unless such work is separately performed through a Florida-licensed Professional Surveyor and Mapper.

Sincerely,

Lexia Weaver, Ph.D.
 VP Managing Director, North Carolina/South Carolina
 lexia@seaandshoreline.com
 252.646.2408



ATHCA Surveying, Inc. — Primary Florida PSM Survey Resource

Russell S. Strayer, Professional Surveyor and Mapper

Florida LS6890 — Active; expires 02/28/2027

Surveyor of Record for LB8562 — Active; expires 02/28/2027

Role: NAVD88 survey planning, benchmark/control review, sensor/reference elevation verification, signed/sealed survey documentation.

Britt Surveying — Supplemental Local Florida PSM Capacity

Collin Barry Naaman, Professional Surveyor and Mapper

Florida LS7527 — Active; expires 02/28/2027

Surveyor of Record for LB8601 — Active; expires 02/28/2027

Role: Local survey support, sensor/reference elevation verification, re-survey support.

Appendix E. Sensor Specifications and Selection Logic

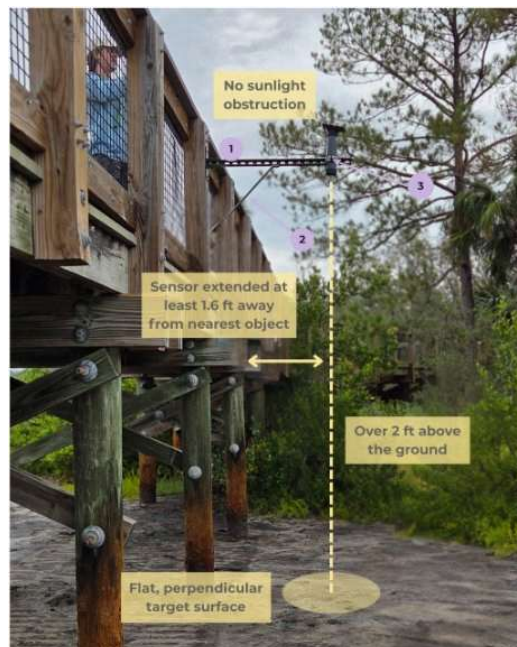
Hohonu provides non-contact ultrasonic/acoustic and 80 GHz radar stations. Both are solar-powered, battery-backed, cellular field stations that integrate into Hohonu's platform, API, QA/QC, alerting, diagnostics, and support workflows.

Specification	Ultrasonic / Acoustic	Radar
Best fit	Sheltered, stable, shorter-range sites where conditions support reliable readings and cost-effective density.	Storm-exposed, large-air-gap, debris-prone, turbulent, or critical public-safety sites.
Technology	Non-contact ultrasonic/acoustic distance-to-surface measurement.	80 GHz non-contact radar distance-to-surface measurement.
Detection range	0.5-10 m.	Up to 30 m.
Resolution / accuracy	1 mm resolution; installed water-level accuracy depends on survey control, mounting stability, environmental conditions, and target-surface conditions.	+/-2 mm sensor-distance accuracy; installed water-level accuracy depends on survey control, mounting stability, site geometry, and target-surface conditions.
Transmission	Every 4-12 minutes, adaptive based on battery level.	Every 4-12 minutes, adaptive based on battery level.
Telemetry	LTE Cat-M1 (LTE-M), the carrier-supported successor to retired 2G/3G networks; onboard buffering and automatic backfill after temporary connectivity loss; satellite available as an optional enhancement for selected sites	LTE Cat-M1 (LTE-M), the carrier-supported successor to retired 2G/3G networks; onboard buffering and automatic backfill after temporary connectivity loss; satellite available as an optional enhancement for selected sites
Power	Solar-powered, battery-backed.	Solar-powered, battery-backed.
Data outputs	Distance-to-surface, battery voltage, sample count, standard deviation / quality metrics, derived water level or flood depth after survey/datum setup.	Distance-to-surface, battery voltage, sample count, standard deviation / quality metrics, derived water level or flood depth after survey/datum setup.

Representative deployments and installation configurations:



Ultrasonic and radar stations deployed side by side.



Installation guidance: land-surface monitoring.



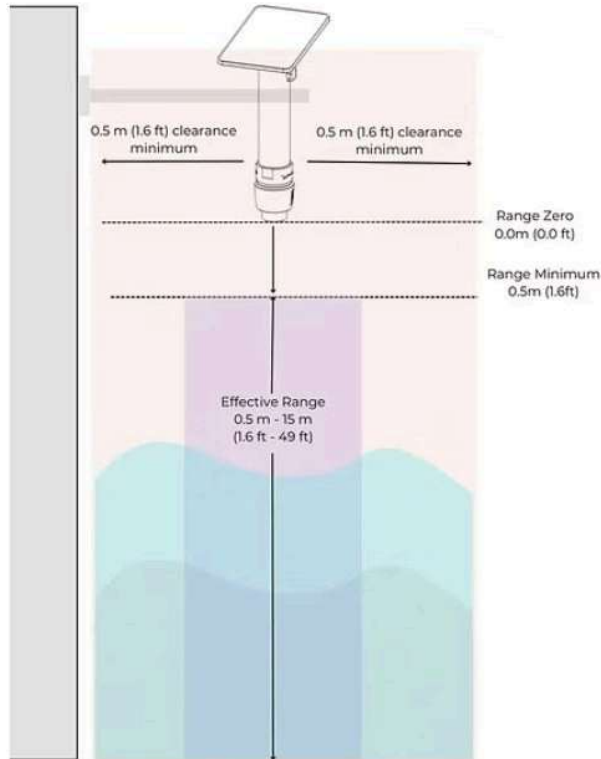
Installation guidance: over-water monitoring.



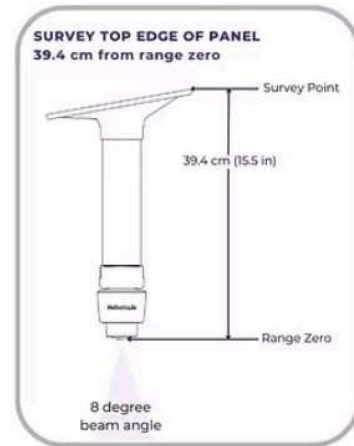
Canal and roadway-adjacent monitoring (FDOT pilot).

Severe weather Radar Sensor SPECIFICATIONS SHEET

INSTALLATION DIAGRAM



SENSOR DIAGRAM



- Solar-powered with 5 watt panel
- Cellular telemetry
- Data logging during signal outage
- Reading-to-reading stability of 2 mm
- Internal temperature compensation
- Detection range of 50 cm to 15 m
- Storm weather, wind, and rain disruption resistant

Severe-weather radar sensor specifications. A note on effective range: Hohonu's standard and extended radar configurations support site-specific deployments up to 20 m and, where required, up to 30 m. Final radar model selection will be confirmed during site verification.



**Ultrasonic sensor detecting flooding at
Long Wharf Pier in Boston, MA**

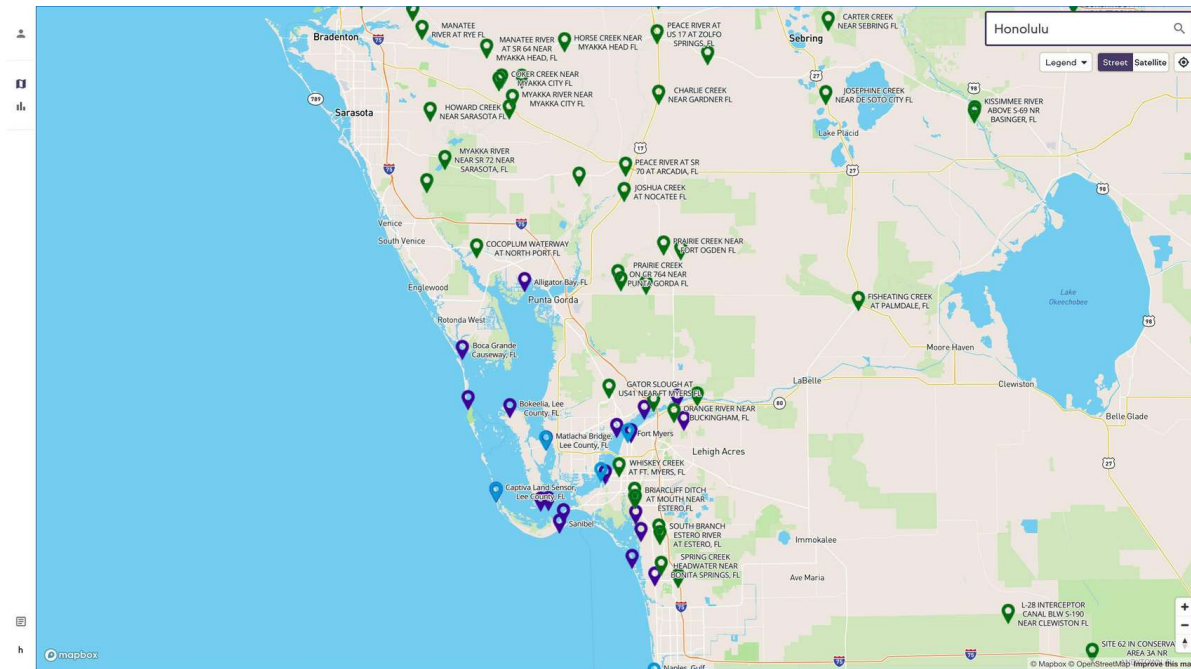


**Radar sensor deployed for canal monitoring by
Florida DOT**

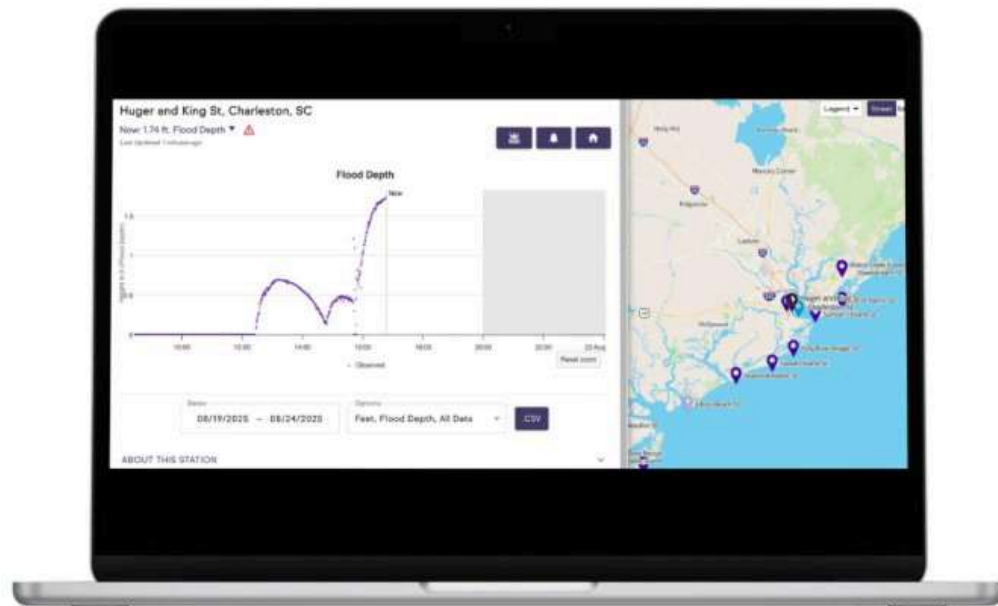
Appendix F. Platform, API, Dashboard, and Data Access Evidence

Hohonu provides unified dashboard, mobile, API, and export access so County departments can use the same observed water-level records for emergency management, water quality, public works, GIS, modeling, storm review, and infrastructure planning.

Data Access Requirement	Hohonu Evidence / Commitment
Public Dashboard and Map	Station map, current readings, time-series graphing, metadata, status, and public/private views where configured.
Mobile access	Mobile-accessible dashboard views and Hohonu TideCast mobile app for field checks and public-facing awareness where appropriate.
RESTful API	HTTPS API with secure API-key access, JSON data, station metadata, latest observations, historical queries, and OpenAPI/Swagger-style documentation. County staff will have access to historical and real-time project data through the API at no additional API cost.
CSV / bulk export	Historical exports and contract-end data export in open formats for County use, migration, archival, and County-authorized sharing.
Data ownership	Charlotte County owns project data and can access, export, share, publish, distribute, migrate, and archive it without vendor approval.
Alerting	Threshold-based SMS text alerts with configurable recipients.



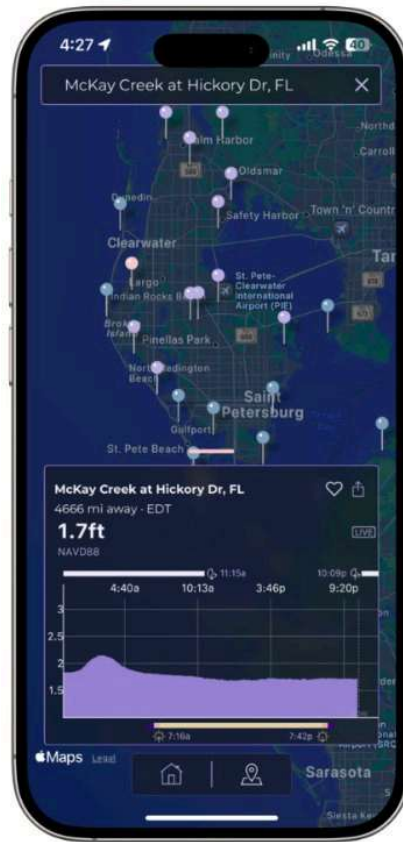
Live network map (Florida): station locations and status.



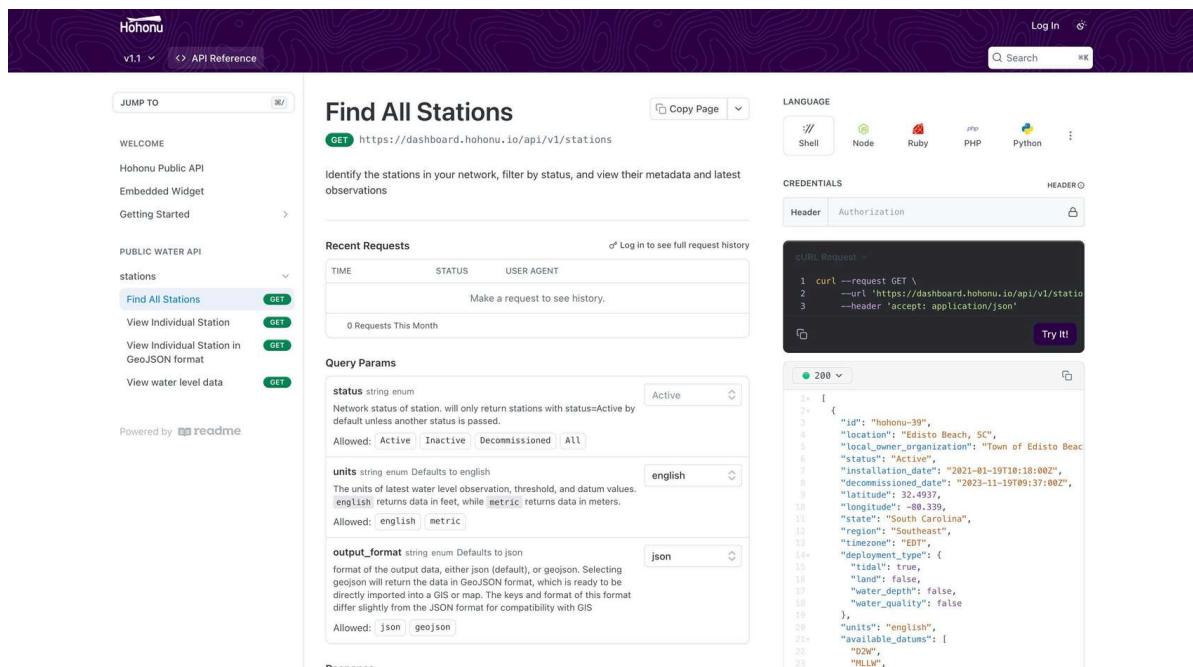
Dashboard: flood-depth time series, station map, and CSV export.



The same records on web and mobile.



TideCast mobile app: station detail with NAVD88 water level.



Find All Stations

GET <https://dashboard.hohonu.io/api/v1/stations>

Identify the stations in your network, filter by status, and view their metadata and latest observations

Recent Requests

TIME	STATUS	USER AGENT
Make a request to see history.		
0 Requests This Month		

Query Params

status string enum
Network status of station. will only return stations with status=Active by default unless another status is passed.
Allowed: Active | Inactive | Decommissioned | All

units string enum Defaults to english
The units of latest water level observation, threshold, and datum values.
english: returns data in feet, while metric: returns data in meters.
Allowed: english | metric

output_format string enum Defaults to json
format of the output data, either json (default), or geojson. Selecting geojson will return the data in GeoJSON format, which is ready to be directly imported into a GIS or map. The keys and format of this format differ slightly from the JSON format for compatibility with GIS
Allowed: json | geojson

LANGUAGE

Shell Node Ruby PHP Python

CREDENTIALS

Header Authorization

cURL Request

```
1 curl --request GET \
2 --url 'https://dashboard.hohonu.io/api/v1/stations' \
3 --header 'accept: application/json'
```

JSON Response

```
{
  "id": "hohonu-39",
  "location": "Edisto Beach, SC",
  "local_owner_organization": "Town of Edisto Beach",
  "status": "Active",
  "installation_date": "2021-01-19T10:18:00Z",
  "decommissioned_date": "2023-11-19T09:37:00Z",
  "latitude": 32.4937,
  "longitude": -80.339,
  "state": "South Carolina",
  "region": "Southeast",
  "timezone": "EDT",
  "deployment_type": {
    "tidal": true,
    "land": false,
    "water_depth": false,
    "water_quality": false
  },
  "units": "english",
  "available_datums": [
    "D20",
    "MLLW"
  ]
}
```

Public REST API reference (v1.1): JSON output, status filters, and available datums including MLLW.

Appendix G. Uptime, QA/QC, Support, and Maintenance Evidence

Uptime / Data-Availability Evidence Summary

Method: uptime/data availability is calculated as active 6-minute intervals divided by expected 6-minute intervals for stations active during the measurement period. Inactive or not-yet-deployed stations are excluded. Hohonu will separately identify scheduled maintenance, documented cellular infrastructure interruptions, unsafe access, physical destruction, vandalism, third-party damage, County-caused delays, and force majeure in County-facing performance reviews where applicable.

Evidence File / Period	Active Sites	Network Availability	Station-Level Notes	RFP Threshold Relevance
Florida active network, last 6 months	45	Average station: 99.41% Aggregate intervals: 99.39% Median: 99.9977%	Excludes one decommissioned station (Fernandina 2). Lowest active station 90.16% (Orange River Bridge).	Exceeds 95% non-storm network uptime/data-availability threshold.
Hurricane Helene event window	15	Average station: 95.45% Aggregate intervals: 97.46% Median: 99.79%	Minimum: 40.44% at hohonu-205 / Boca Grande, Lee County, FL (documented station-specific exception during the event window).	Exceeds 90% storm-event network uptime/data-availability threshold.
Hurricane Milton event window	15	Average station: 99.31% Aggregate intervals: 99.31% Median: 99.69%	Minimum: 96.56% at hohonu-73 / Fernandina 2; next-lowest 97.50%	Exceeds 90% storm-event network uptime/data-availability threshold.

Station-Level Detail

The tables below provide the station-level basis for the summary figures above. Fernandina 2 (hohonu-73) was a legacy station deployed continuously since 2021 under an earlier reporting configuration. It is excluded from the current active-network six-month figures because it is no longer representative of Hohonu's current Florida network, but it is retained in the storm-event tables because it was active during Helene and Milton.

Florida active network, last 6 months (45 stations)

Station ID	Location	Days Active	Uptime %
hohonu-229	St Augustine Municipal Marina, FL	181	100.00%
hohonu-286	Pinebrook at Bryan Dairy Rd. FL	181	100.00%
hohonu-232	Weedon Island, FL	181	100.00%
hohonu-233	Phillippe Park, FL	181	100.00%
hohonu-258	Mickler at 16th Street Culvert	181	100.00%

hohonu-275	Daughtry Creek, Lee County, FL	181	100.00%
hohonu-210	Captiva Land Sensor, Lee County, FL	181	100.00%
hohonu-209	New Pass Bridge, Lee County, FL	181	100.00%
hohonu-85	Mexico Beach	181	100.00%
hohonu-204	St. James City, Lee County, FL	181	100.00%
hohonu-146	Town Marina, Palm Beach, FL	181	100.00%
hohonu-72	John's Pass	181	100.00%
hohonu-236	Sanibel Causeway, Lee County, FL	181	100.00%
hohonu-238	Bokeelia, Lee County, FL	181	100.00%
hohonu-237	Hancock Bridge, Lee County, FL	181	100.00%
hohonu-278	Imperial Boat Ramp, Lee County, FL	181	100.00%
hohonu-205	Boca Grande, Lee County, FL	181	100.00%
hohonu-67	Captiva Island, FL	181	100.00%
hohonu-76	Fernandina I	181	100.00%
hohonu-274	Cross Bayou at Ulmerton Rd, FL	181	100.00%
hohonu-282	McKay Creek at Hickory Dr, FL	181	100.00%
hohonu-276	Owl Creek, Lee County, FL	181	100.00%
hohonu-256	Mickler at A Street Canal	181	100.00%
hohonu-280	CR95, FL	181	100.00%
hohonu-206	Cape Coral Bridge, Lee County, FL	181	100.00%
hohonu-242	Boca Ciega-Millennium Park, FL	181	100.00%
hohonu-74	Sanibel	101	100.00%
hohonu-147	Ibis Way Bridge, Palm Beach, FL	181	100.00%
hohonu-288	Alligator Bay, FL	155	99.99%
hohonu-243	Alligator Lake, FL	181	99.99%
hohonu-281	Brooker Creek at Tarpon Woods Blvd, FL	181	99.99%
hohonu-279	Cross Bayou at Cedarbrook Ct, FL	181	99.99%
hohonu-277	Mullock Creek, Lee County, FL	181	99.99%
hohonu-311	Estero River, Lee County, FL	32	99.97%
hohonu-212	Matlacha Bridge, Lee County, FL	181	99.96%
hohonu-283	Fort Desoto, FL	181	99.90%
hohonu-211	First Street Land Sensor, Lee County, FL	181	99.78%
hohonu-208	St. James City Land Sensor, Lee County, FL	166	99.42%

hohonu-255	Jacksonville Beach, S 10th Street Canal	181	99.34%
hohonu-257	SR A1A at 11th Street Culvert	181	98.64%
hohonu-234	Sutherland Bayou, FL	181	98.50%
hohonu-260	SR A1A Bridge, Matanzas Inlet	181	97.91%
hohonu-259	Mizell Outfall at ICWW	181	97.90%
hohonu-45	Boca Grande Causeway, FL	181	91.84%
hohonu-207	Orange River Bridge, Lee County, FL	181	90.16%

Hurricane Helene event window (15 stations)

Boca Grande (hohonu-205) recorded reduced availability during the Helene window and is documented as a station-specific exception. The network aggregate exceeds the 90% storm-event threshold.

Station ID	Location	Days Active	Uptime %
hohonu-146	Town Marina, Palm Beach, FL	3	100.00%
hohonu-85	Mexico Beach	3	99.90%
hohonu-74	Sanibel	3	99.90%
hohonu-67	Captiva Island, FL	3	99.90%
hohonu-76	Fernandina 1	3	99.90%
hohonu-147	Ibis Way Bridge, Palm Beach, FL	3	99.90%
hohonu-207	Orange River Bridge, Lee County, FL	3	99.79%
hohonu-209	New Pass Bridge, Lee County, FL	3	99.79%
hohonu-208	St. James City Land Sensor, Lee County, FL	3	99.69%
hohonu-206	Cape Coral Bridge, Lee County, FL	3	99.58%
hohonu-210	Captiva Land Sensor, Lee County, FL	3	99.37%
hohonu-211	First Street Land Sensor, Lee County, FL	3	99.37%
hohonu-204	St. James City, Lee County, FL	3	99.37%
hohonu-73	Fernandina 2	3	94.79%
hohonu-205	Boca Grande, Lee County, FL	1	40.44%

Hurricane Milton event window (15 stations)

Station ID	Location	Days Active	Uptime %
hohonu-206	Cape Coral Bridge, Lee County, FL	3	100.00%
hohonu-85	Mexico Beach	3	99.90%
hohonu-67	Captiva Island, FL	3	99.90%
hohonu-76	Fernandina 1	3	99.90%

hohonu-147	Ibis Way Bridge, Palm Beach, FL	3	99.90%
hohonu-146	Town Marina, Palm Beach, FL	3	99.79%
hohonu-208	St. James City Land Sensor, Lee County, FL	3	99.69%
hohonu-205	Boca Grande, Lee County, FL	3	99.69%
hohonu-211	First Street Land Sensor, Lee County, FL	3	99.58%
hohonu-207	Orange River Bridge, Lee County, FL	3	99.58%
hohonu-204	St. James City, Lee County, FL	3	99.58%
hohonu-210	Captiva Land Sensor, Lee County, FL	3	99.37%
hohonu-209	New Pass Bridge, Lee County, FL	3	98.75%
hohonu-212	Matlacha Bridge, Lee County, FL	3	97.50%
hohonu-73	Fernandina 2	3	96.56%

Appendix H. Advanced Tidal Analytics - Hohonu Tides+

Hohonu Tides+ is a data-fusion approach for applicable coastal and tidal monitoring sites. It combines local Hohonu observations with NOAA-derived tidal and coastal water-level information to improve site-specific tide predictions, king tide forecasting, seasonal high-water outlooks, datum-aware interpretation, and flood-threshold planning.

Capability	Use for Charlotte County
Site-specific tide predictions	Understand expected high-water timing and magnitude at individual County monitoring locations instead of relying only on distant regional gauges.
King tide forecasting	Identify upcoming periods when elevated tides may affect roads, shorelines, water quality operations, or public communications.
Seasonal high-water outlooks	Support pre-season planning, threshold review, and staffing/resource awareness during higher-risk tide seasons.
Datum-aware interpretation	Present water levels in datums relevant to County operations, modeling, and infrastructure planning where survey control supports defensible use.
Complement to official guidance	Tides+ supports local interpretation and planning, but does not replace official NOAA, National Weather Service, or County emergency guidance.

Hohonu will apply Tides+ only where site type, observation history, datum control, and County use cases support defensible use. For newly deployed tidal sites, prediction quality improves as local observation history accumulates.

Appendix I. Training, Quarterly Review, and Storm Support Evidence

User Group / Workflow	Training and Review Focus
Emergency Management	Dashboard use, critical-site monitoring, storm-mode procedures, SMS alerts, degraded/offline station status, and event review.
Water Quality / Modeling	Historical records, NAVD88-referenced values, raw vs. corrected data, QA/QC levels, exports, and data suitability for calibration or analysis.
GIS / IT	API credentials, endpoints, CSV/JSON exports, metadata, data portability, and integration with County-selected platforms.
Public Works / Infrastructure	Thresholds, site-specific trends, roadway/canal use cases, maintenance coordination, and infrastructure planning records.
Quarterly review	Station status, network health, data availability, QA/QC, support history, field response, alert performance, storm/high-water review, and recommended improvements.
Annual pre-hurricane review	Critical-site list, alert recipients, storm-mode contact list, spare-equipment readiness, open maintenance items, and lessons learned.

PART IV - SUBMITTAL FORMS
PROPOSAL SUBMITTAL SIGNATURE FORM

1.	Project Team Name and Title	Years experience	City of office individual will work out of for this project	City individual's office is normally located	City of individual's residence											
	Brian T. Glazer, PhD - CEO / Principal	25	Honolulu, HI	Honolulu, HI	Honolulu											
	Kevin Mukai - COO / Project Manager	10	Honolulu, HI	Honolulu, HI	Honolulu											
	Noah Pentelovitch - Field Operations / Hardware Lead	15	Honolulu, HI	Honolulu, HI	Honolulu											
	Ryan Searcy, PhD - Platform & Data Lead	10	San Francisco, CA	San Francisco, CA	San Francisco											
	Ikaika Bishop - Customer Success / Support Lead	20	Honolulu, HI	Honolulu, HI	Honolulu											
	Greg Dusek - Science / Tidal Analytics Advisor	25	Washington, DC	Washington, DC	Washington, DC											
	Lexia Weaver - Sea and Shoreline Field Support Lead	25	Morehead City, NC	Morehead City, NC	Morehead											
	Russell S. Strayer, PSM - ATHCA Surveying / Primary Florida PSM	20	Sarasota County, FL	Sarasota County, FL	Sarasota County											
	Collin Barry Naaman, PSM - Britt Surveying / Supplemental Florida PSM	30	Venice, FL	Venice, FL	Venice											
2.	Magnitude of Company Operations															
	A) Total professional services fees received within last 24 months:			\$ 791,110												
	B) Number of similar projects started within last 24 months:			42												
	C) Largest single project to date:			\$ 200,000												
3.	Magnitude of Charlotte County Projects															
	A) Number of current or scheduled County Projects			1												
	B) Payments received from the County over the past 24 months (based upon executed contracts with the County).			\$ 9,995												
4.	Sub-Consultant(s) (if applicable)	Location	% of Work to be Provided	Services to be Provided												
	Sea & Shoreline, LLC	Ruskin, FL	15-20%	Local/regional field logistics												
	ATHCA Surveying, Inc	Sarasota, FL	5-10%	NAVD88 surveying												
	Britt Surveying	Venice, FL	2-5%	Supplemental surveying												
5.	Disclosure of interest or involvement: List below all private sector clients with whom you have an active pending contract and who have an interest within the areas affected by this project. Also, include any properties or interests held by your firm, or officers of your firm, within the areas affected by this project.															
	Firm None	Address N/A														
	Phone # N/A	Contact Name N/A														
	Start Date N/A	Ending Date N/A														
	Project Name/Description															
None. Hohonu, Inc. is not aware of any active pending private-sector client contract, property interest, or officer interest within the areas affected by this project requiring disclosure.																

NAME OF FIRM Hohonu, Inc

(This form must be completed and returned)

6. Minority Business: The County will consider the firm's status as an MBE or a certified MBE, and also the status of any sub-contractors or sub-consultants proposed to be utilized by the firm, within the evaluation process.	Yes _____ No ☒
Comments or Additional Information:	
No MBE status claimed for Hohonu or proposed subconsultants.	

The undersigned attests to his/her authority to submit this proposal and to bind the firm herein named to perform as per contract, if the firm is awarded the Contract by the County. The undersigned further certifies that he/she has read the Request for Proposal, Terms and Conditions, Insurance Requirements and any other documentation relating to this request and this proposal is submitted with full knowledge and understanding of the requirements and time constraints noted herein.

By signing this form, the proposer hereby declares that this proposal is made without collusion with any other person or entity submitting a proposal pursuant to this RFP.

In accordance with section 287.135, Florida Statutes, the undersigned certifies that the company is not on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, and does not have business operations in Cuba or Syria (if applicable) or the Scrutinized Companies that Boycott Israel List, or is not participating in a boycott of Israel.

As Addenda are considered binding as if contained in the original specifications, it is critical that the Consultant acknowledge receipt of same. The submittal may be considered void if receipt of an addendum is not acknowledged.

Addendum No. <u>1</u> Dated <u>5/21/26</u>	Addendum No. <u>3</u> Dated <u>6/3/26</u>	Addendum No. _____ Dated _____
Addendum No. <u>2</u> Dated <u>6/1/26</u>	Addendum No. _____ Dated _____	Addendum No. _____ Dated _____

Type of Organization (please check one):	☐ INDIVIDUAL ☒ CORPORATION	☐ PARTNERSHIP ☒ JOINT VENTURE	☐ ☐
<u>Hohonu, Inc</u>	<u>808-224-1909</u>		
Firm Name	Telephone		
<u>2800 Woodlawn Drive. Suite 138.</u>	<u>38-4120763</u>		
Fictitious or d/b/a Name	Federal Employer Identification Number (FEIN)		
<u>Home Office Address</u>	<u>7</u>		
<u>Honolulu, HI. 96822.</u>	Number of Years in Business		
<u>City, State, Zip</u>			
<u>N/A - no separate Hohonu office; local field/survey support listed on page 19.</u>			
<u>Address: Office Servicing Charlotte County, other than above</u>	<u>808-224-1909</u>		
<u>Kevin Mukai, COO</u>	Telephone		
<u>Name/Title of your Charlotte County Rep.</u>			
<u>Kevin Mukai, COO</u>			
<u>Name/Title of Individual Binding Firm (Please Print)</u>	<u>June 5, 2026</u>		
<u>Kevin Mukai</u>	Date		
<u>Signature of Individual Binding Firm</u>			
<u>kevin@hohonu.io</u>			
<u>Email Address</u>			

(This form must be completed & returned)

DRUG FREE WORKPLACE FORM

The undersigned vendor in accordance with Florida Statute 287.087 hereby certifies that Hohonu, Inc
_____ does: _____ (name of business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

Kevin Mubai

Proposer's Signature

June 5, 2026

Date

NAME OF FIRM Hohonu, Inc.

(This form must be completed & returned)

**HUMAN TRAFFICKING AFFIDAVIT
for Nongovernmental Entities Pursuant To FS. §787.06**

Charlotte County Contract #20260423

The undersigned on behalf of the entity listed below, (the "Nongovernmental Entity"), hereby attests under penalty of perjury as follows:

1. I am over the age of 18 and I have personal knowledge of the matters set forth except as otherwise set forth herein.
2. I am an officer or representative of the Nongovernmental Entity and authorized to provide this affidavit on the Company's behalf.
3. Nongovernmental Entity does not use coercion for labor or services as defined in Section 787.06, Florida Statutes.
4. This declaration is made pursuant to Section 92.525, Florida Statutes. I understand that making a false statement in this declaration may subject me to criminal penalties.

Under penalties of perjury, I declare that I have read the foregoing Human Trafficking Affidavit and that the facts stated in it are true.

Further Affiant sayeth naught.

Kevin Mukai

Signature

Kevin Mukai

Printed Name

COO

Title

Hohonu, Inc

Nongovernmental Entity

June 5, 2026

Date

END OF PART IV

NAME OF FIRM Hohonu, Inc

(This form must be completed and returned)