Qualifications to Provide Professional Services for the Fiscal Year 2023-24

Submitted to
County of Hawai‘i
Research and Development Department

Submitted by
Oceanit

oceanit
innovation through engineering & scientific excellence

27 June 2023

Mr. Douglass Adams, Director
Director of Research & Development, County of Hawai‘i

SUBJECT: Qualifications to Provide Professional Services for the Fiscal Year 2023-24

Dear Mr. Adams:

Oceanit is pleased to submit our letter of interest and qualifications to Research and Development Department to provide professional services under the categories identified below:

- **RD.3 Community Planning (Community and Economic Development, Community Engagement, Strategic Planning, Sustainability Systems)**

Oceanit's ***Resilient Sustainable Engineering*** (***RiSE***) group has proudly provided diverse planning and engineering project services to public and private clients in Hawai‘i and outside for over 37 years. The RiSE team comprises experienced professional civil engineers, coastal engineers, environmental scientists, community planners, drafters/designers, and technicians who have successfully delivered civil, coastal, and environmental engineering design as well as construction management, planning, permitting, and environmental document preparation.

Our submittal package includes:

- Key Personnel Resumes and Qualifications
- Example Projects of Community Planning
- Additional Information (including client references and conflict of interest statement)
- General Qualifications
- Appendix I – Key Personnel Certificates and Professional Licenses
- Appendix II – Oceanit Brochure
- Appendix III – Certificates of Company Insurance and Vendor Compliance

We look forward to the opportunity to provide our professional services. If you have any questions, please feel free to call me at 531-3017 or email me at kcheung@oceanit.com or Dale Uno at duno@oceanit.com.

Sincerely,

Ken Cheung
Director of Strategic Business Units

Key Personnel Resumes

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Dayananda H. Vithanage, PhD, PE	**Principal, QA/QC**	54	33

15. FIRM NAME AND LOCATION (City and State)
Oceanit Laboratories, Inc, Honolulu, Hawai'i

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS, Civil Engineering MS, Coastal Engineering PhD, Ocean Engineering	Civil Engineer, Hawai'i

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Dr. Vithanage is responsible for overseeing the technical quality of each project. He reviews project deliverables for quality assurance and quality control (QA/QC). He is involved with all stages of projects at Oceanit. He has served as the principal investigator for many coastal, civil, environmental, watershed, and environmental remediation projects throughout the state.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)
Honouliuli Wastewater Treatment Plant
'Ewa Beach, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2012	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Principal-in-charge for investigating the feasibility and environmental impacts of extending the existing outfall to obtain a National Pollutant Discharge Elimination System (NPDES) permit for future wastewater disposal from the treatment plant for the City and County of Honolulu. Installed two water column monitoring data buoys at the two depths and analyzed data for one year to evaluate the impacts on the water column. Conducted dye studies to model far field dispersion and plume fate. Developed conceptual outfall extension designs. Near real-time data and results were posted to an extranet website. The approximate project cost was $680,000.

b.

(1) TITLE AND LOCATION (City and State)
'Aliomanu Road Coastal Erosion Control
Anahola, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2013	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Principal-in-charge for the design of an emergency erosion control and protection solution for 'Aliomanu Road using coconut fiber sandbags for the County of Kaua'i. Conducted topographic and beach surveys, designed a permanent shore protection solution, and prepared an environmental assessment and plans, specifications, and cost estimates (PS&Es). Submitted applications for all required federal, state, and county permits for approval. The design included a revetment and the rebuilding of the road and shoulder. The approximate project cost was $197,000.

c.

(1) TITLE AND LOCATION (City and State)
Ala Wai Canal Watershed Flood Mitigation and
Ecosystem Restoration Project, O'ahu, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2013	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Principal-in-charge for the development of designs for flood alleviation in Waikīkī and restoration of ecosystems in the upper watershed that includes Pālolo, Mānoa, and Makiki streams. Oceanit helped develop the project scope conceptual designs to mitigate intensity of flooding in Waikīkī and restoring the functionality of the streams that provide habitat and migration path for endemic fish. Numerous informational meetings with State and County agencies, stakeholders, environmental groups, and the general public were held to discuss the stream problems, their impacts, and proposed restoration measures. Oceanit completed a hydrographic survey for Ala Wai Canal and part of the Ala Wai Boat Harbor. A hydrologic and hydraulic analysis was also completed for the watershed.

d.

(1) TITLE AND LOCATION (City and State)
Water Infiltration in the Basement of the International Arrivals Building
Daniel K. Inouye International Airport (HNL), O'ahu, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Phase 1: July 2019	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Principal-In-Charge for investigation and preliminary design of a complete solution to stop water infiltration in the basement of the International Arrivals Building (IAB) at HNL. The basement has been afflicted by continuous water infiltration (average 40 gallons per minute) and flooding events for the past two decades; a chronic problem that renders some areas unusable and impedes access to mechanical equipment and storage. After reviewing as-built plans, the Oceanit team investigated water infiltration sources into the basement, tested chemical composition of the infiltrating water and developed conceptual designs to prevent the infiltration and provided a report of the findings and recommendations. Phase 1 cost: $550,000.

e.

(1) TITLE AND LOCATION (City and State)
Repairs to the Daniel K. Inouye International airport Reef Runway
Breakwater, Honolulu, Oahu, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2001	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Principal-In-Charge. Investigated and assessed the extent of damage to the structure from Hurricane Iniki and other severe storms,prepared plans, specifications, and cost estimates for casting concrete dolos armor units and repair the damaged areas of thestructure, obtain necessary permits, assist in construction contract documentation, and provided the post design support to theconstruction contractor during construction. $230,000

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Stephen B. Wilson	**Project Manager / Mechanical Engineer**	50	4

15. FIRM NAME AND LOCATION (City and State)
Oceanit Laboratories, Inc, Honolulu, Hawai'i

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
B.S. / 1973 / Mechanical Engineering MBA / 1980 / MBA	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Navy SCUBA Qualified; Drydock Master, Software Engineering Institute/Carnegie Mellon Capability Maturity Model, Hammer & Champy's Business Process Reengineering (BPR), Total Quality Management (TQM), International Organization for Standardization ISO 9001 auditor, Legislative Auditor for State of Hawaii (management & performance audits).

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)
General Manager and Construction Engineer,
Kailua-Kona and Honolulu, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2004-2006	2004-2006

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm

Construction & Operations Management - Construction of modular homes using light gauge steel frames and trusses that were manufactured from coils of light gauge steel in a plant environment. Manufactured entire home in two pieces that were trucked to job site and assembled and closed up. Homes were secured to foundations and utilities connected.

b.

(1) TITLE AND LOCATION (City and State)
General Manager/Aloha Aina Homes, LLC
Kailua-Kona and Honolulu Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2004-2005	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm

Helped to establish new business to manufacture modular homes using light gauge steel frames and trusses in a new plant environment. Left company to start up similar operation in Honolulu. Worked with consultants to plan, develop and implement operating plan. Served as onsite engineer. Defined and implemented Manufacturing Process Management Systems. Documented and implemented standard operating procedures (Safety Manual/Program, Steel Stud Quality Control Manual & Plant Quality Control Manual) and quality standards.

c.

(1) TITLE AND LOCATION (City and State)
Kahana Nui Basin Dam, Department of Public Works
Kahana, Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2020-present	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Manager – Oversaw Hydrological and Hydraulic analysis, Spillway Adequacy Analysis, updated design for outflow intake and dam controls, prepared design report, prepared and submitted application for approval of Plans and Specifications to the Hawaii Dam Safety Program.

d.

(1) TITLE AND LOCATION (City and State)
Ala Wai Watershed Flood Mitigation Project,
Honolulu, Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2020	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Manager – Oversaw hydrologic and hydraulic computer modeling of watershed, developed conceptual designs for flood mitigation solutions, conducted engineering review of USACE flood mitigation plans, performed community engagement and outreach meetings, coordinated activities with stakeholders, agencies, and community.

e.

(1) TITLE AND LOCATION (City and State)
North Kawaihae Small Boat Harbor Improvements
Kawaihae, Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2022 (est.)	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm

Project Manager - Provided damage assessment reports, construction plans, specifications and cost estimates for the main breakwater, rock revetment, parking lot, boat washdown and drainage improvements, utility upgrades, a drainage evaluation, wave modelling and report, an Environmental Assessment, and all required permits. The main breakwater that is supposed to protect the harbor, has undergone major repairs in the past due to wave damage. The most recent wave damage occurred in January 2020, rendering the marginal wooden wharf and much of the harbor utilities unusable. The proposed improvements will strengthen the compromised breakwater, construct a sand berm along the shoreline to prevent sand from accumulating on the boat ramp and replace or repair damaged infrastructure. Estimated Construction Cost: Main Breakwater - $4.62 M, Infrastructure Improvements: $1.16 M

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Michael J. Foley, Ph.D., PE	**Hydraulic Engineer/Coastal Engineer**	a. TOTAL 17	b. WITH CURRENT FIRM 17

15. FIRM NAME AND LOCATION (City and State)
Oceanit Laboratories, Inc, Honolulu, Hawai'i

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
Ph.D. Civil Engineering, 2015 M.S. Civil and Environmental Engineering, 2011 B.A. Environmental Science: Concentration in Physics, 2006	Professional Engineer, Civil Engineering Class, State of Hawai'i (PE-17342)

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Dr. Foley is a Civil, Ocean and Environmental Engineer with years of experience in engineering analysis and design services as well as environmental assessment and monitoring projects. His specialties include hydraulic and hydrologic analysis and design, coastal engineering and environmental planning and permitting.

19. RELEVANT PROJECTS

a.
(1) TITLE AND LOCATION (City and State)
Kahana Regional Beach Erosion Mitigation
Lahaina, Hawai'i
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2017 — CONSTRUCTION (If applicable):
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm
Principle Investigator. Approximately ¾ mile of shoreline developed with nine condominium complexes is exposed to severe shoreline hazards due to beach and shoreline erosion. Dr. Foley lead the design of a shoreline restoration project, assessment of multiple design alternatives, preparation of an environmental impact statement, and community outreach.

b.
(1) TITLE AND LOCATION (City and State)
Portlock Road Drainage Outfall Improvements
Honolulu, Hawai'i
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2015 — CONSTRUCTION (If applicable): 2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm
Project Engineer. An existing nearshore breakwater protecting the outlet of an existing at municipal stormwater drainage outfall was damaged. Dr. Foley design a replacement coastal structure to mitigate wave energy, sediment transport and drainage issues at the shoreline. The project involved evaluation of coastal dynamics, innovative structure design, environmental permits, land use entitlements, construction plans, specifications, cost estimate, and post design services.

c.
(1) TITLE AND LOCATION (City and State)
Flood Hanalei Fishpond Wetlands,
Hanalei, Hawai'i
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2012 — CONSTRUCTION (If applicable):
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm
Project Engineer. A development was being planned for a coastal wetland area. Oceanit evaluated the coastal dynamics, shoreline
erosion stability, flood hazard areas and elevations, and wetland ecosystem.

d.
(1) TITLE AND LOCATION (City and State)
Hale'iwa and Waialua Flood Mitigation Study
Waialua, Hawai'i
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2013 — CONSTRUCTION (If applicable):
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm
Project Engineer. Assessed the existing flood situation for the Helemano/ Paukauila/ Kaukonahua Watersheds and developed conceptual alternatives to reduce flooding in the area. Hydrology and hydraulic modeling was conducted to identify the flood areas and design concepts were developed that may be implemented throughout the watershed to reduce flooding.

e.
(1) TITLE AND LOCATION (City and State)
Keōpū-Hienaloli Streams Flood Control Project
Kona, Hawai'i
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2013 — CONSTRUCTION (If applicable):
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm
Project Engineer. Conducted a hydrological analysis of the watershed area including eight flood levels (2-year, 5-year, 10-year, 25-year, 50-year, 100-year, 200-year and 500-year storms). Identified and assessed existing flood control and drainagefacilities within the project area. Developed a hydraulic design analysis for a proposed flood reduction plan.

f.
(1) TITLE AND LOCATION (City and State)
Chang Property Shoreline Protection
Waimanalo, Oahu, Hawai'i
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing — CONSTRUCTION (If applicable):
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm
Project Manager. Provided an emergency, temporary repair design to stabilize the shoreline and reduce the risk to the property. An engineering assessment that used background information provided by the client and historical shoreline erosion data was done to develop options for a longer-term shoreline erosion control. This assessment report was the basis for discussions with DLNR – Office of Conservation and Coastal Lands and other agencies to discuss shoreline protection options. Design fee: $19,000.

g.
(1) TITLE AND LOCATION (City and State)
Lydgate Ponds Repair Project
Līhue, Hawai'i
(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2014 — CONSTRUCTION (If applicable):
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm
Civil / Ocean Engineer responsible for restoration of the Lydgate Park swimming ponds by repairing the existing breakwater and dredging sand material. The scope of work included providing a bathymetric survey, detailed construction plans, specifications, cost estimates, bid proposal, bidding phase services for dredging, dewatering, and disposal of materials. Engineering cost: $76,950.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Linyan Li Goo, PhD, PE	**Hydraulic Engineer/Coastal Engineer**	a. TOTAL: 4	b. WITH CURRENT FIRM: 4

15. FIRM NAME AND LOCATION (City and State)
Oceanit Laboratories, Inc, Honolulu, Hawai'i

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS Environmental Engineering 2008 MS in Environmental Science and Engineering (2011) PhD in Ocean and Resources Engineering (2018)	State of Hawaii Professional Engineer License No. 20193

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Yamazaki Y., Bai Y., Goo L.L., Cheung, K.F., Lay, T. (2023). Nonhydrostatic Modeling of Tsunamis from Earthquake Rupture to Coastal Impact. Journal of Hydraulic Engineering. [accepted in March 2023]

*Li, L., Cheung, K.F. (2018). Numerical dispersion in non-hydrostatic modeling of long-wave propagation. Ocean Modeling. doi: 10.1016/j.ocemod.2019.05.002.

*Li, L., Cheung, K.F., Yue, H., Lay, T., and Bai, Y. (2016). Effects of dispersion in tsunami Green's functions and implication for joint inversion with seismic and geodetic data: a case study of the 2010 Mentawai Mw 7.8 earthquake. Geophysical Research Letters, 43(21), 11182-11191.

*Li, L., Lay, T., Cheung, K.F., and Ye, L. (2016). Joint modeling of teleseismic and tsunami wave observations to constrain the 16 September 2015 Illapel, Chile Mw 8.3 earthquake rupture process. Geophysical Research Letters, 43(9), 4303-4312.
* Work published under maiden name Li

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED: PROFESSIONAL SERVICES	(2) YEAR COMPLETED: CONSTRUCTION (If applicable)
a.	Kahana Nui Basin Dam Improvements, Maui, Hawaii	ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm		
	Project Engineer. Performed Hydrologic and Hydraulic modeling for the Kahana Nui watershed and reservoir using USACE's HEC-HMS and HEC-RAS (2D) model systems; Evaluated downstream flooding effects under various dam improvement alternatives; Prepared Hydrologic and Hydraulic Analysis Report and Downstream Flooding Effects Report.		
b.	(1) TITLE AND LOCATION (City and State) Ala Wai Watershed Flood Mitigation, Honolulu, Hawaii	2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm		
	Project Engineer. Performed hydrologic and hydraulic modeling using HEC-HMS and HEC-RAS for various frequencies of flood events to assess hazards for the Ala Wai Watershed; Evaluated conceptual designs involving a set of tunnels, combined with ideas suggested by the community. Modeling results provided critical information for the design phase.		
c.	(1) TITLE AND LOCATION (City and State) Kalakaua Floating Bridge Flow Condition Analysis, Honolulu, Hawaii	2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm		
	Project Engineer. Conducted hydraulic analysis to evaluate flood impacts of constructing a bridge, crossing Kalakaua bridge, along the Ala Wai Canal. Prepared a report to document the findings and potential impacts on general flood condition in the adjacent areas due to the proposed project.		
d.	(1) TITLE AND LOCATION (City and State) Kahana Bay Erosion Mitigation, Kahana, Maui, Hawaii	2019	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm		
	Coastal Engineer. Performed wave climate data analysis to define typical swell events for coastal erosion. Developed DEM (digital elevation model) by incorporating multiple data resources including Lidar, Multibeam, and Nautical charts etc. Performed wave modeling using SWAN (Simulating Waves Near Shore) to evaluate wave impacts and worked on beach stabilization structure design.		
e.	(1) TITLE AND LOCATION (City and State) Mangrove Eradication at Keehi Lagoon for DOT Airports, Honolulu, Hawaii	2021	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm		
	Project Engineer/Construction Inspector. Conducted periodic BMP and environmental compliance inspections. Prepared written reports and photo log to document work progress. Helped on logistics/coordination/meeting minutes of regular project progress meetings.		
f.	(1) TITLE AND LOCATION (City and State) Pahonu Beach Restoration, Waimanalo, Hawaii	ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☐ Check if project performed with current firm		
	Project Engineer. Performed offshore wave buoy data analysis. Collected exisiting oceanographic data for coastal hazard assessment. Compiled topography/bathymetry data for development of digital elevation model (DEM) around the project site; Created high-resolution elevation maps using ArcGIS; Performed wave modeling.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Jason Y. Lee, P.E.	**Senior Civil Engineer**	24	2

15. FIRM NAME AND LOCATION (City and State)
Oceanit Laboratories, Inc, Honolulu, Hawai'i

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS Civil Engineering / 1996	Hawaii, Civil Engineering, No. 13669 Nevada, Civil Engineering, No.15275

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certified Erosion and Sediment Control Plan Coordinator
Computer Skills: AutoCAD, ArcGIS, HEC-1, HEC-2, HEC-RAS, Flo-2D, WSPGW, FlowMaster, CulvertMaster

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)
Waikiki Aquarium Effluent Discharge System Upgrade
Honolulu, Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2023	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Senior Civil Engineer. Evaluated and designed upgrades for the aquatic life exhibit effluent disposal system to meet the NPDES regulatory requirements. Served the role of Project Manager and Technical Lead of the Design Team for the preparation of construction plans, specifications, and cost estimates.

b.

(1) TITLE AND LOCATION (City and State)
Saddle Road – West Side Mamalahoa Hwy (SR 190) to MP 41 (Daniel k. Inouye Hwy)
Island of Hawai'i, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2010	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Senior Engineer. This project was a 10-mile new alignment bypass of the old Saddle Rd. on the Big Island of Hawai'i. The project was performed for the Federal Hwy Administration, the Central Federal Lands Hwy Division, and HDOT-Hwy Division. Responsibilities: Performed hydrologic and hydraulic analyses and recommended drainage improvements to be included in the Preliminary Design Plans.

c.

(1) TITLE AND LOCATION (City and State)
Honolulu Rail Transit (East Kapolei to Aloha Stadium)
Honolulu, Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2010	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Senior Engineer. Performed hydraulic and scour analysis of the rail columns at the channel/stream crossings near the junction of H2 and Farrington Hwy and near the intersection of Kualakai Pkwy and Hoomohala Ave.

d.

(1) TITLE AND LOCATION (City and State)
Lone Mountain/Beltway Detention Basins and Gowan Beltway Chnl
Clark County, Nevada

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2008	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Senior Engineer. This project consisted of 600 acre-feet dual detention basins connected by a balance conduit with a dual level of outfall flow control & a number of inflow storm drains and channels, including a 2-mile inflow channel that conveys up to 3800 cfs. Responsibilities: Performed hydrologic analyses for a drainage area over 10 sq. mi.; coordinated with another engineering firm in reconciling the hydrology of the project with that of the Las Vegas Valley 2008 Master Plan Update; performed hydraulic analyses and design of the drainage facilities that included dual detention basins, emergency spillways, balance conduit, dual level outfall orifices, stepped spillway channels, inflow storm drains and channels with energy dissipaters; prepared design report; QA/QC of plans and specifications

e.

(1) TITLE AND LOCATION (City and State)
Gowan Outfall Lone Mountain Branch – Rancho to Decatur
Las Vegas, Nevada

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2008	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Senior Engineer. This project was a 2.2-mile storm drain system that consisted of RCBs ranging from 6-ft X 6-ft to 14-ft X 7-ft and conveyed up to 1600 cfs. Responsibilities: Performed hydraulic analyses and design of the 2.2-mile RCB storm drain system that includes the mainline, laterals, and drop inlets; reviewed drawings and plans for quality control and quality assurance; prepared 30%, 70%, 90%, and final hydraulic design reports; identified and resolved
utility conflicts; coordinated with City of Las Vegas, Clark County Regional Flood Control, and Nevada Department of Transportation

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Catherine Hanna, EIT	**Civil Engineer**	a. TOTAL 9	b. WITH CURRENT FIRM 3

15. FIRM NAME AND LOCATION (City and State)
Oceanit Laboratories, Inc., Honolulu, Hawai‘i

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MS Civil and Environmental Engineering / 2012 BS Civil Engineering / 2011	Engineer in Training, New York, No. 088183

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Certifications: OSHA 10-Hour Training #36-005323436 (2015), OSHA Asbestos Awareness Training #1360 (2021), AHA Heartsaver First Aid CPR & AED (2021)

Awards: Charles Lee Crandall Award Winner (2010 & 2011), Margaret Arronet Corbin Award Winner (2011), Intel Foundation Research Grant Recipient (2011)

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)
Water Infiltration into Basement of International Arrivals Building
Honolulu, O‘ahu, Hawai‘i

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION (If applicable):

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Engineer. Prepared book specifications for and provided detailing of improvements intended to stop water infiltration into the north and south portions of the Daniel K. Inouye International Airport basement. Researched specialty products and collaborated with manufacturers, distributors and local contractors to determine product suitability. Coordinated details with structural engineering consultant, SLSH.

b.

(1) TITLE AND LOCATION (City and State)
State Irrigation System Reservoir Safety Improvements
Waimea, Big Island, Hawai‘i

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION (If applicable):

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Engineer. Civil design and detailing of 40 linear feet of subgrade outlet pipe extension, new concrete intake box at the base, and new valve and valve stem system along the slope of Pu‘ukapu Reservoir.

c.

(1) TITLE AND LOCATION (City and State)
Kahana Bay Erosion Mitigation
Lahaina, Maui, Hawai‘i

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION (If applicable):

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Engineer. Prepared conceptual plans and details using Civil 3D for the four (4) alternatives considered in the project’s Environmental Impact Statement (EIS), intended to develop a sustainable and resilient approach to mitigate regional erosion along 3,700 linear feet of Kahana shoreline. Developed quantity take-offs for each alternative for cost estimating purposes. Contributed to preparation of written content for EIS publication.

d.

(1) TITLE AND LOCATION (City and State)
Mantokuji Mission Shoreline Adaption
Pā‘ia, Maui, Hawai‘i

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION (If applicable):

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Engineer. Prepared specifications and RFP package for an emergency temporary protection structure, consisting of imported, beach-compatible sand wrapped in geotextile fabric, along 112 linear feet of shoreline fronting the historic temple structure. Coordinated permitting efforts with regulatory agencies, and provided construction administration, including reviewing submittals and responding to RFIs. Prepared preliminary plans and design for the restoration of the sandy beach in Mantokuji Bay, as a permanent solution to the erosion and consequent threat to the temple, to help facilitate discussions with the community and regulatory agencies.

e.

(1) TITLE AND LOCATION (City and State)
Ko‘a Kea Resort Shoreline Protection
Kōloa, Kaua‘i, Hawai‘i

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION (If applicable):

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Engineer. Performed site reconnaissance, involving a site visit and local shoreline recession data collection. Prepared an engineering assessment of the beach and shoreline erosion at the property, assessed adaption options considering cost, constructability, and permitting implications, and developed conceptual plans and details for 165 linear feet of restored beach fronting the resort to reduce risks to public safety and natural resources from shoreline recession. Also developed conceptual plan for comprehensive small-scale beach restoration spanning seven (7) properties along 1,600 linear feet of Kiahuna Beach to incite collaborative discussions between owners.

f.

(1) TITLE AND LOCATION (City and State)
Dale Residence Emergency Temporary Shoreline Protection
Kapa‘a, Kaua‘i, Hawai‘i

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION (If applicable):

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE — ☑ Check if project performed with current firm

Project Engineer. Drafted construction drawings and prepared specifications and other contract documents for 77 linear feet of temporary erosion control structure makai of the existing oceanfront erosion escarpment.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Amber Park	**Landscape Architect / Civil Designer**	15	2

15. FIRM NAME AND LOCATION (City and State)
Oceanit Laboratories, Inc, Honolulu, Hawai'i

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
Landscape Architecture / 2008 Minor in Communications	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Proficient in AutoCAD applications; Civil 3D, Carlson CAD, Microstation and MS Office applications (Word, Excel, Powerpoint, Outlook), Adobe Photoshop and SketchUp

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)
Water Infiltration into Basement of International Arrivals Building
Honolulu, Oahu, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2022	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Civil Designer. Prepared construction plans for basement repairs intended to stop water infiltration into the north and south portions of the Daniel K. Inouye International Airport basement. Coordinated work with project team and subconsultants.

b.

(1) TITLE AND LOCATION (City and State)
Halekulani Hotel Seawall Repairs
Honolulu, Oahu, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2021	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☑ Check if project performed with current firm

Civil / Landscape Designer. Prepared conceptual and short-term repair construction plans and renderings for several coastal erosion repair concepts. Identified existing conflicts and developed concepts.

c.

(1) TITLE AND LOCATION (City and State)
Various Commercial Projects – Pickering Associates
West Virginia

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2013	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Landscape Architect. Prepared construction documents for commercial projects in the Civil Engineering department using Civil3D Cad software. Drawings included site plans, geometric layout plans, grading plans, utility plans, sediment and erosion control plans and sections and details. Coordinated with local planning departments and utility companies.

d.

(1) TITLE AND LOCATION (City and State)
Triple H Enterprises
West Virginia

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2013	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Civil / Landscape Designer. Prepared conceptual site layout design drawings for construction feasibility and general layout.

e.

(1) TITLE AND LOCATION (City and State)
Various Commercial/Industrial Projects – Dieffenbauch & Hritz Engineers
West Virginia

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2013	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Civil / Landscape Designer. Prepared construction documents for commercial/industrial projects in the Civil Engineering department using Microstation software. Drawings included site plans, grading plans, utility plans, and sediment and erosion control plans and sections and details.

f.

(1) TITLE AND LOCATION (City and State)
Town Creek Landscape and Construction Company
West Virginia

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Landscape Designer. Duties included site surveys, landscape design, and meeting with clients. Assisted in advertising and marketing for company. Created Adobe Photoshop plan Renderings and 3D Modeling in SketchUp.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Om Das, P.E., PMP	**Construction Project Manager**	a. TOTAL 12	b. WITH CURRENT FIRM 2

15. FIRM NAME AND LOCATION (City and State)
Oceanit Laboratories, Inc, Honolulu, Hawai'i

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
B.Tech, Chemical Engineering / 2008 M.S., Civil Engineering / 2011	Hawaii, Civil Engineering

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Project Management Professional (PMP), OSHA 30-Hour Construction Industry Outreach, OSHA 10-Hour Construction Industry Outreach, LEED Green Associate

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)
Water Systems Upgrade at the Waikiki Aquarium for the University of Hawaii, Manoa

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Current	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Civil Engineer responsible for project management and project design, planning & permitting. Scope of project includes design of injection well system for the discharge of water effluent from the aquarium's exhibits.

b.

(1) TITLE AND LOCATION (City and State)
HNL NDWP IIT Mauka Extension, Daniel K. Inouye Intl Airport
Honolulu, Hawaii

X

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2021	2021

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Construction Project Manager responsible for the coordination of project work with the project stakeholders, coordination of design changes with the Owner, Designer & Contractor, inspecting Contractor's work in accordance with the Project Documents and negotiating change orders with the Contractor. Scope of the project included the demolition of the old Commuter Terminal and the construction of the new Inter-Island Terminal Mauka Extension at HNL. Approximate Construction Cost was $270 Mil.

c.

(1) TITLE AND LOCATION (City and State)
HNL HDWP Widen Taxilanes G&L Phase I, Daniel K. Inouye Intl Airport
Honolulu, Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2018	2018

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Construction Project Manager responsible for the coordination of project work with the project stakeholders, coordination of design changes with the Owner, Designer & Contractor, inspecting Contractor's work in accordance with the Project Documents and negotiating change orders with the Contractor. Scope of the project included the widening & full pavement reconstruction of Taxilanes G & L to accommodate ADG-V type aircrafts. Approximate Construction Cost was $60 Mil.

d.

(1) TITLE AND LOCATION (City and State)
Waiahole Water System Improvements for the State of Hawaii, Department of Agriculture
Honolulu, Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2021	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Civil Engineer responsible for project design and permitting. Scope of project included the replacement of four irrigation siphons along the Waiahole Water System Improvements that convey irrigation water from one part of the Island of Oahu to another for agricultural use.

e.

(1) TITLE AND LOCATION (City and State)
Lima Ola Work Force Housing Development for Kauai County Housing Agency
Kauai, Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2013	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Civil Engineer responsible for the development of an environmental assessment report, preliminary engineering report and a water model for the project.

f.

(1) TITLE AND LOCATION (City and State)
Force Main Condition Assessment for the Department of Design & Construction, City & County of Honolulu
Honolulu, Hawaii

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2014	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

☐ Check if project performed with current firm

Civil Engineer responsible for developing a work plan for the condition assessment of three wastewater force mains at Kaneohe, Kailua and Halawa and documenting the findings of the condition assessment in an engineering report.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Vicki Spradlin	**Construction Inspector/Drafting Technician**	16	3

15. FIRM NAME AND LOCATION (City and State)
Oceanit Laboratories, Inc, Honolulu, Hawai'i

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
Bachelor of Science, 1994 Mechanical Engineering Technology, ABET-accredited Industrial Supervision Minor	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
30 HOUR OSHA CERTIFICATION

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)
Construction Management Services for Mangrove Removal and Eradication at Keehi Lagoon, Daniel K. Inouye International Airport Honolulu, HI

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2020-2021	2021

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Engineer. In response to FAA wildlife regulations on bird habitats, the project removes large mangrove patches on islands located in the DOT Airport's Ke'ehi Lagoon. Position works closely with DOT Airport personnel and construction contractor to provide comprehensive support services and overall construction management. Daily transport by boat to jobsite for inspections and work observation. Provide detailed written reports and digital photographs to document progress. Conduct meetings. Confirm safety and work quality assurances. Coordination of homeless outreach with DOT personnel. Manage submittals, proposals, change orders, invoices, etc.

b.

(1) TITLE AND LOCATION (City and State)
Construction Management Services for Phase 1 of the OST ACM & Air Conditioning Modifications at the Daniel K. Inouye International Airport - Honolulu, HI

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
ongoing	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Engineer. Overall construction management services and on-site DOTA representative for pre-construction, construction, and post-construction phases. Initial project constructability review. Initial planning and coordination. Work with construction contractor, subconsultants and SMEs. Perform daily inspection, work observation, and reporting. Conduct meetings with owner. Confirm safety and quality assurances. Manage project budget and billings. Manage submittal responses, RFIs, field orders,
change orders, work outages, issues, and disputes.

c.

(1) TITLE AND LOCATION (City and State)
Free Electron Laser (FEL) Facility Development
The University of Hawai'i Physics and Astronomy Dept., Honolulu, HI

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2004-2008	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm

Consultant/Designer. Facility development under a $50 million federal grant for defense-related research. Produced multitudes of complex machine designs and drawings (2D & solid models). Special project contributions included laser transport system design, radiation protection system planning, and cleanroom design-build. Vetting and selecting specialty vendors across the U.S. to fabricate over 300 machined and micro-machined components. Wrote technical summaries, coordinated high dollar purchases, established a procurement process to adhere to federal grant guidelines. Quality checks on received system components. Presentations to key stakeholders.

d.

(1) TITLE AND LOCATION (City and State)
Lucent Technologies Telcom Infrastructure Installations, Nationwide
Lucent Technologies is now Nokia. Client was AT&T.

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
1996-2002	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm

Network Systems Engineer/Project Manager - Managed the life cycle of projects with durations varying from three months to two years, with value up to $4 million. Project scopes included engineering, materials, and installations for local exchange services, 5E switches, and leased space arrangements. Discipline areas included building network infrastructure, network equipment, power supplies/cabling and transmission cabling. Also worked with sales, engineering, and installation teams to develop winning
proposals, budgets, and schedules.

e.

(1) TITLE AND LOCATION (City and State)
Industrial Mixing Systems Design / Flow Process Technologies, Inc.
Houston, Texas

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
1994-1996	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm

Applications Engineer for firm that designs and manufactures proprietary static mixing equipment for petroleum, water treatment, food, and other industrial processes. Provide customer/process analysis, R & D, innovative solution design, technical summary reports and CAD/drafting. Key contributor development of turnkey systems for Nalco Chemical's various water treatment processes and Allied Signal's (now Honeywell) circuit board coating processes.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Jordan Moniuszko, PE CCM	**Environmental/Civil Engineer, Construction Manager**	14	9

15. FIRM NAME AND LOCATION (City and State)
Oceanit Laboratories, Inc, Honolulu, Hawai'i

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
B.S. / 2009 / Mechanical Engineering B.S. / 2009 / Environmental Science	Hawaii / Civil Engineering / 2018

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
2009 / SCUBA Open Water; 2009 / Environmental Compliance Training and Tracking System; 2010 / OSHA 30 Hour Construction Safety & Health; 2010 / National Pollutant Discharge Elimination System Awareness; 2013 / CPR & First Aid; 2013 / OSHA 24 Hour Confined Space Competent Person; 2014 / Hawaii DOBOR Safe Boating; 2021 / OSHA 2 Hour Asbestos Awareness

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)
Waikiki Aquarium Effluent Disposal System Upgrade
Honolulu, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ongoing	2024 (Est.)

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Manager for this project to evaluate, permit, and design upgrades to the aquatic life exhibit effluent disposal system in order to meet updated NPDES regulatory requirements. The team consisted of civil, electrical, and mechanical engineers, biologist, hydrogeologist, and aquatic life support system specialist.

b.

(1) TITLE AND LOCATION (City and State)
Anahola Farm Lots Subdivision Water System Improvements
Anahola, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ongoing	2022 (Est.)

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Engineer for this project to replace a rural subdivision 0.5 MG water tank, water transmission lines and appurtenances, and install a system interconnection with County water system. The team consisted of civil, structural, mechanical, and electrical engineers.

c.

(1) TITLE AND LOCATION (City and State)
IAB Basement Water Infiltration Repairs at Daniel K Inouye Intl Airport
Honolulu, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ongoing	2023 (Est.)

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Engineer for this project to investigate sources of and design repairs for flooding to the basement of the overseas terminal at Honolulu International Airport. A variety of techniques were used to scan concrete and gather data to confirm sources of water infiltration. Final design includes repairs to floor slab, exterior and interior drainage improvements, and new floor slab installation.

d.

(1) TITLE AND LOCATION (City and State)
Salt Lake Watershed Structural BMP Implementation
Salt Lake, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2021	2022

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Engineer for this project to install remote sensors and stormwater samplers, collect water quality and meteorologic data, develop and calibrate a watershed model, model various BMP scenarios, design various structural stormwater Best Management Practice measures, and provide construction management services at Salt Lake Watershed in urban Honolulu.

e.

(1) TITLE AND LOCATION (City and State)
Ka'elepulu Pond & Wetland Environmental Maintenance Dredging
Kailua, Hawai'i

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ongoing	2022 (Est.)

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Design Engineer and Construction Manager for an ecosystem restoration project to reconnect two estuarine bodies of water located in Windward Oahu. Federal, State and local permits and implementation of associated regulatory conditions were required prior to construction.

f.

(1) TITLE AND LOCATION (City and State)
Kahalu'u Flood Control Lagoon Maintenance Dredging Kaneohe, Hawai'i for Department of Design and Construction

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2016	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Engineer for this windward Oahu maintenance dredging and upland disposal project currently in progress for the City and County of Honolulu. Wrote and executed Sediment Sampling and Analysis Plan. Performed upland disposal scenario and cost estimate analysis. To perform design and services during bidding.

g.

(1) TITLE AND LOCATION (City and State)
Kawainui Stream Flow Restoration Kailua, Hawai'i for Department of Land and Natural Resources

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2015	2015

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Engineer for this environmental remediation project. Designed and installed a temporary levee overflow siphon to return flow to the Kawainui Stream and Hāmākua Marsh from the Kawainui Marsh in an experimental study. Gathered water quality data from before and after the temporary siphon installation. Preliminary design of a permanent siphon constructed through the levee.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Bryan Fong	**Project Engineer, Construction Inspector**	5	1

15. FIRM NAME AND LOCATION (City and State)
Oceanit Laboratories, Inc, Honolulu, Hawai'i

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
University of Hawaii BS Civil Engineering / 2016	Hawaii, Civil Engineering, No.

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)
State of Hawaii, Department of Transportation, Highways Division Oahu District Engineer 1-11

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Review and approve permit requests for oversized and overweight vehicle movement, Use and Occupancy of State Highways, permits to perform work on State Highways. Input lane closures into ArcGIS to inform public of lane closures. Solicits bid offers for State Maintenance contracts through HIePro system by drafting SOW, estimated bid amounts, relevant standard specifications and drawings, wage-rate and scale and general terms and conditions. QA/QC liaison for bridge inspection program in coordination with the Federal Highway's Administration for the purposes of performing inspections as well as monitoring contractors ensuring compliance with best practices.

b.

(1) TITLE AND LOCATION (City and State)
Construction Management Services for Phase 1 of the OST ACM & Air Conditioning Modifications at the Daniel K. Inouye International Airport
Honolulu, HI

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ongoing	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Engineer. Overall construction management services and on-site DOTA representative for construction and postconstruction phases. Work with construction contractor, subconsultants and SMEs. Perform daily inspection, work observation, and reporting. Conduct meetings with owner. Confirm safety and quality assurances. Manage project budget. Manage submittal responses, RFIs, field orders, change orders, work outages, issues, and disputes.

c.

(1) TITLE AND LOCATION (City and State)
Nimitz Highway Void Investigation Phase 2
Honolulu, HI

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ongoing	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Project Engineer. Review of existing field inspection data, as-builts, and surveys locating the alignment of storm drain lines in which fine material is possibly seeping through causing undermining of the road. Coordinate with subconsultants coordinating the procurement of temporary street usage permits for temporary traffic control devices, and necessary BMP measures that need to be implemented during preconstruction, construction, and post-construction phases.

d.

(1) TITLE AND LOCATION (City and State)
Waikiki Aquarium Effluent Disposal System Upgrade Installation of Flowmeters
Honolulu, Hawai'i

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2022	2022

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm

Erosion and Sediment Control Plan coordinator and field inspector. Conducted weekly BMP inspections during construction of design-build project ensuring that the contractor follows the designer's erosion and sediment control plan. Documenting and recording inspection data and working with the contractor to address deficiencies. Develop Environmental Assessment on utility conflicts with new effluent disposal system upgrades.

e.

(1) TITLE AND LOCATION (City and State)
Emergency repairs at Kaipapau Stream Bridge
Hauula, HI

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2021	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm

Project Manager. Scope out emergency repairs in conjunction with design engineer. Contract and procurement of funding sources. Plan and coordinate work schedule with contractor including BMPs and environmental compliance protection measures. Document and record daily construction progress and reporting.

f.

(1) TITLE AND LOCATION (City and State)
Repave Kamehameha Highway from Waihona Street to Kuala Street
Pearl City, Hawai'i

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2022	2022

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☐ Check if project performed with current firm

Project Manager. Scope paving limits and depth. Procure construction services and funding and award to lowest bidding contractor. Plan schedule, traffic control, lane closures, BMPs, and Environmental compliance with contractor during repaving efforts. Daily field inspection and report documentation.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN SERVICE CATEGORY	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Berna Cabacungan Senelly	**Planning and Permitting**	38 yrs	1.5 year

15. FIRM NAME AND LOCATION (City and State)
Oceanit, Honolulu, Hawai'i

16. EDUCATION *(DEGREE AND SPECIALIZATION)*	17. CURRENT PROFESSIONAL REGISTRATION *(STATE AND DISCIPLINE)*
BA (English) University of Hawaii 1976	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State): **Kahana Bay Erosion Mitigation Project Environmental Impact Statement Kahana, Hawai'i**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION (if applicable):

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE — [X] Check if project performed with current firm

Project Coordinator. Services include team management, writing, research, agency consultation, community outreach, consultant report review, editing and processing in compliance with HRS 343 and HAR Title 11-200 and 11-200.1.

b.

(1) TITLE AND LOCATION (City and State): **Waikiki Aquarium Water System Upgrade Environmental Assessment and Permits**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION (if applicable):

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE — [X] Check if project performed with current firm

Project Coordinator. On EA, services include team management, writing, research, agency consultation, community outreach, consultant report review, editing and processing in compliance with HRS 343 and HAR Title 11-200 and 11-200.1. On permits, services include research, consultation and application preparation and processing

c.

(1) TITLE AND LOCATION (City and State): **Menu of Coastal Hazard Adaptation Strategies Suitable for Hawaii**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2023; CONSTRUCTION (if applicable):

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE — [X] Check if project performed with current firm

Project Manager: Development of an informational resource for the Hawai'i Coastal Zone Management Program outlining a menu of coastal hazard adaptation strategies that could be used in Hawai'i given our regulatory framework. Deliverable included a multi-layered website that contained over 40 strategies, their regulatory framework, pros and cons, case studies an references.d

d.

(1) TITLE AND LOCATION (City and State): **SandSaver Installation Pilot Project at Kualoa and Waimanalo Beaches**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION (if applicable):

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE — [X] Check if project performed with current firm

Permit Manager: Coordinate all aspects of land use and permit approvals for a DOT HWY pilot project to mitigated erosion impacts on adjacent roadways by using the SandSaver system to trap and retain beach sand along the shoreline. The retention of sand may help stabilize an eroding embankment and provide protection to the highway, while also enhancing the environmental, cultural, and recreational use of the public beach areas.

e.

(1) TITLE AND LOCATION (City and State): **Shoreline Protection at Niaupala Fishpond, Molokai**

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: Ongoing; CONSTRUCTION (if applicable):

(3) BRIEF DESCRIPTION (Brief scope size, cost, etc.) AND SPECIFIC ROLE — [ ] Check if project performed with current firm

Permit and community outreach coordinator: Manage land use and approval processes and community outreach program on Dept of Transportation project to restore a portion of Route 450 Kamehameha V Highway that has been severely undermined and damaged and poses safety risks and commuting disruptions.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Dale Uno	**Community Outreach Specialist, Organizational Change Management Specialist**	22	3

15. FIRM NAME AND LOCATION (City and State)
Oceanit Laboratories, Inc, Honolulu, Hawai'i

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BA English Literature (1994)	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Proficient in both Windows and Mac operating systems, as well as in the use of industry-standard software programs: Word, Excel, Outlook, PowerPoint, Photoshop, and Quickbooks Pro.

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION (City and State)
Ala Wai Watershed Flood Mitigation Project
Honolulu, Hawai'i

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2020	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm
Community Outreach Specialist. Facilitate Oceanit's engagement with members of the community, elected officials, government agencies, and organizations.

b.

(1) TITLE AND LOCATION (City and State)
Kahana Bay Erosion Mitigation Project
(Kahana, HI)

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
ongoing	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm
Assisted in preparation the EIS Preparation Notice and Draft EIS for beach restoration at Kahana Bay, Maui. Assisted in responses to hundreds of public community and agency comments.

c.

(1) TITLE AND LOCATION (City and State)
Moloaa, Waimea Water Supply
(Kauai, HI)

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2022	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm
Helped resolve a boundary dispute involving the Kauai Department of Water, DAGS Land Survey Division, DLNR and DOT. The resolution requires updating of a survey map and the description on the legal document.

d.

(1) TITLE AND LOCATION (City and State)
Organizational Change Management for Hawaii Gas' Project FOCUS (For Our CUStomers)
(Hawaii statewide)

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2021-2023	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm
Community Outreach Specialist. Assisted with conducting Design Thinking workshop for the project's core team and numerous individual and group stakeholder meetings; engaged clients in industry-standard methods and practices to guide them through a structured OCM approach that yielded a comprehensive stakeholder analysis matrix, as well as a deep understanding of individual and group needs. Developed and implemented an OCM plan that provided a structure for engaging with stakeholders through each phase of the project. Managed documentation of interactions with clients and stakeholders; maintained several logs and issue trackers. Drafted and submitted final report which included lessons learned and recommendations as requested by the client.

e.

(1) TITLE AND LOCATION (City and State)
Kauai Kailani
(Kauai, HI)

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2021	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm
Facilitated introduction of concurrent resolutions in both houses of the Legislature which was a requirement for an easement needed for the project; liased with DLNR and kept clients updated on status of the legislation; HCR 166 was adopted by the Legislature.

f.

(1) TITLE AND LOCATION (City and State)
North Kawaihae Small Boat Harbor Improvements
(Kawaihae, HI)

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2021-2023	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm
Researched pre-consultation list; assisted with pre-consultation process and managed documentation. Environmental Assessment drafting and editing.

g.

(1) TITLE AND LOCATION (City and State)
Waikiki Aquarium Effluent Discharge System Upgrade
(Honolulu, HI)

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2023	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ☑ Check if project performed with current firm
Environmental Assessment drafting and editing.

Example Projects of

Community Planning

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **6**

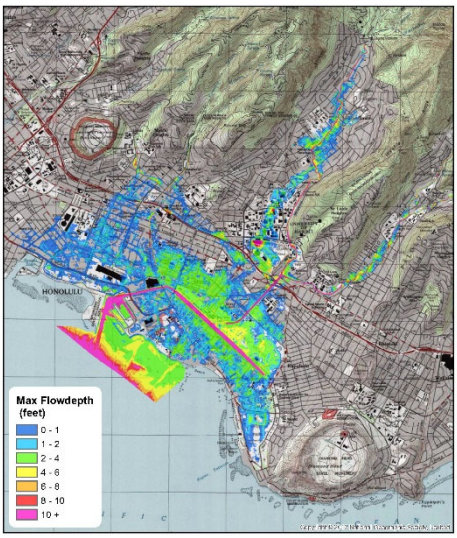
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ala Wai Canal Flood Risk Management Project Honolulu, Hawai'i	2020	

23. PROJECT OWNER'S INFORMATION

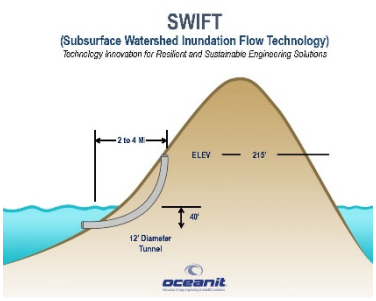
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City and County of Honolulu Permitted Interaction Group	Councilwoman Carol Fukunaga	(808) 768-5010

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The feasibility phase for this project was initiated in July 2002. Following the 2004 Manoa flood, the project was amended to include the upstream portions of the Ala Wai Watershed (Manoa, Makiki, Palolo). The project restarted in 2007, incorporating the information developed in the Manoa Watershed Project. In 2012, ecosystem restoration was eliminated as a study objective and the project was renamed the Ala Wai Canal Flood Risk Management. A report by the USACE was signed in December 2017 and a Record of Decision for the EIS was reached in September 2018, concluding the feasibility phase for the project. After the release of the 2017 FEIS, there was widespread community opposition that was very consistent with the concerns raised in 2004. While this plan might prevent large-scale flood damage, community members felt it was deeply flawed, and would cause more damage to the ecosystem and to property than it was worth. In answer to very vocal community response, the Honolulu City Council formed the Ala Wai Permitted Interaction Group (PIG), which hired Oceanit to help with community outreach and ensure that the project's full flood control was fully utilized.



Ala Wai Watershed 100-Year Floodplain (Without Project Condition)



Oceanit developed the SWIFT (Subsurface Watershed Inundation Flow Technology) design concept that would utilize tunnels to remove water from the upper watersheds directly to the ocean and hence mitigate the flooding levels at lower watershed. Hydraulic modeling was performed to evaluate and optimize the design. ArcGIS tool was used to generate flood maps from various storm events under different design options.

Oceanit held numerous community meetings involving residents, private businessowners, non-profit leaders, and government officials to collect feedback and input from those who would be affected most directly. A physical 3D model of the watershed was created to better engage the community and communicate options and solutions. Flood inundation animations and flood maps could be projected onto the 3D model to demonstrate the effects of stormwater at varying storm frequencies. A modified visualization tool was also created to allow for 2D presentation via zoom web meeting.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Oceanit	Honolulu, Hawai'i	Prime consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **3**

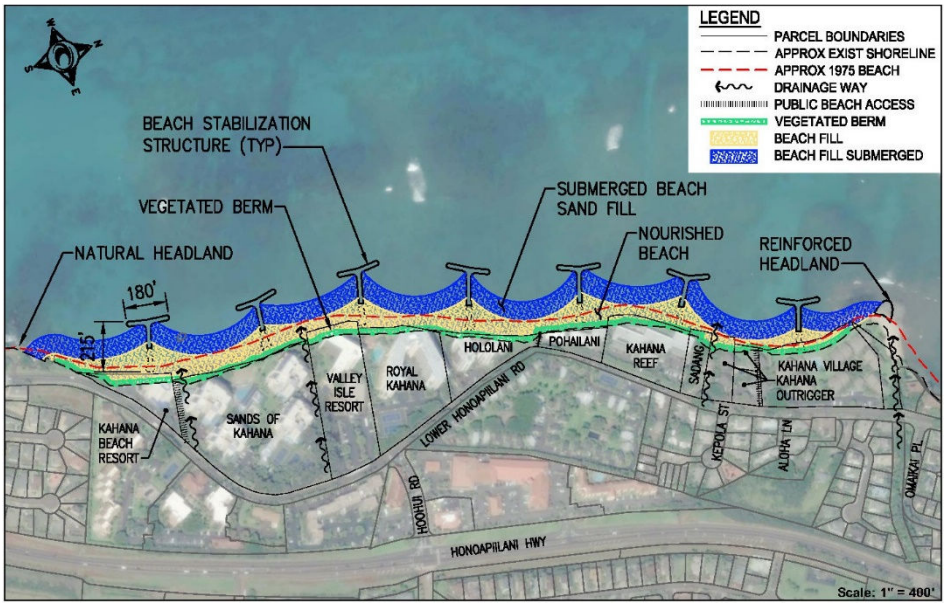
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Kahana Bay Erosion Mitigation Project **Lahaina, Maui, Hawaii**	Ongoing	2022 (estimated)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Kahana Bay Steering Committee (KBSC) / County of Maui Department of Planning	Maui County Jim Buika	(808) 270-6271

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Oceanit prepared an Environmental Impact Statement for the Kahana Bay Steering Committee (KBSC). For decades, Kahana Bay on Maui has experienced severe coastal erosion from sea level rise, storm events, and shoreline development. This has resulted in natural hazard risks to public safety and infrastructure. Approximately 1,200 feet of this shoreline is currenty protected by temporary erosion constrol structures.



The KBSC represents nine condominiums and one kuleana parcel along the coastline between Kahana Stream and Pōhaku Park. The Proposed Action presents a sustainable and resilient solution to mitigate regional shoreline erosion using sand transported from offshore for beach nourishment and berm enhancement. Seven rock T-groind and one reinforced rock headland structure will be constructed to stabilize the beach. The beach will be restored to the approximate width that existed in 1975 which is about 65 feet wider on average than is current. Other benefits include six coves created in the nearshore area, addition of hard substrate and niche space for marine species, and preserving long-term water quality.

Oceanit conducted an extensive community outreach program in planning and design of this project. Several community meetings were held and eleven in-depth key informant interviews were conducted. In addition, Oceanit conducted four focus groups, including cultural, ocean users, sustainability and residents. We are currently supporting the KBSC in working with the County of Maui to form a Community Facilities District (CFD) to fund teh project.

Estimated Construction Cost: $26 to $40 million

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Oceanit Laboratories, Inc.	Honolulu, HI	Prime, Civil Engineer, Coastal Engineer, Planner
b.	Cultural Surveys Hawaii	Kailua, HI	Cultural Assessment

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **10**

21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Mauna Lahilahi Beach Park Erosion Control **Wai‘anae, Hawai‘i**	2019	2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City and County of Honolulu, Department of Design and Construction	Curtis Kushimaejo	(808) 768-8455

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Scope: Oceanit prepared plans, specifications, cost estimates, an Environmental Assessment, and permits for a shoreline erosion control design to protect the park lands and preserve the sand beach makai of the Mākaha Surfside Apartments on the leeward side of O'ahu. Located just landward of the eroding shoreline, the apartment complex was damaged by hurricanes and by seasonal high waves several times in the past. The project consisted of a temporary sandbag revetment to protect inland areas, a breakwater to reduce wave energy, and beach restoration. The breakwater is a rubble structure extending about 250 feet parallel to the eroding shoreline. The beach was built with 10,000 cubic yards of sand from an inland quarry.

In Phase II, Oceanit designed, prepared specifications and environmental permits, and oversaw construction to replace the temporary sand bag revetment with a 330-ft permanent rock revetment along the inner shoreline of the pocket beach. The revetment consisted of two layers of underlayer stones, totaling 500cy, and two layers of basalt armor stones totaling 2,035 cy. Construction of the revetment was completed in 2021.

Other tasks included hydrographic surveys, wave and current analysis to optimize the design, post-design services during bidding and construction, construction management services, benthic marine biological surveys, and post construction services.

Cost: $1M

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Oceanit Laboratories, Inc.	Honolulu, HI	Prime—Coastal Engineer and Planner

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: **2**

21. TITLE AND LOCATION (City and State)

Waikīkī Aquarium Effluent Disposal System Upgrade

22. YEAR COMPLETED

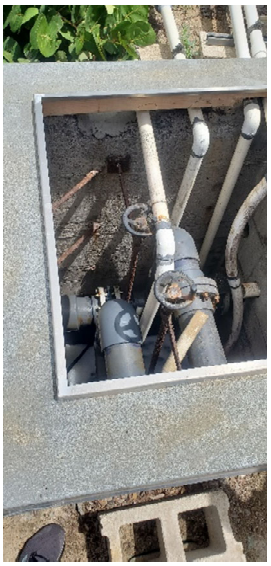
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ongoing	2023 (Est.)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
University of Hawai'i	Brandon Shima	(808) 216-4780

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The Waikīkī Aquarium is the second oldest operating public aquarium in the U.S., have been operating out of its current facility since 1955. Oceanit was contracted by the University of Hawaii to analyze the Aquarium wastewater systems and develop a comprehensive process water system redesign with the goal to ensure compliance with increasing environmental regulatory requirements and future expansion and improvements. Evaluation and redesign of the wastewater systems involved assessment of the electrical system, mechanical systems, local geology, and biological life support systems. Additionally, all infrastructure improvements will be designed to accommodate future displays and other upgrades. Challenges included navigating a stringent regulatory environment, coordinating investigations during COVID restrictions, specifying proper state of the art water treatment and life support equipment, and working within the limitations of aging infrastructure.



Oceanit managed a large team of subcontractors for this complicated project, including mechanical engineers, electrical engineers, hydrogeologists, geotechnical engineers, surveyors, aquarium and water quality specialists, architects, pipe surveyors, and aquarium life support systems specialists. Coordination and communication challenges with such a large subcontractor team was compounded as the there were also multiple groups representing the client input, including the University of Hawaii, Waikiki Aquarium, and donors to the aquarium. The Oceanit team was integral in maintaining lines of communication within and between groups, coordinating with regulators, and keeping the project moving and everyone on the same page.

Oceanit's deliverables included a Water System Upgrade Plan, Basis of Design Report, Compliance Monitoring Plan, and other necessary components for Federal, State, and County permit regulations.

Oceanit will oversee construction of the multi-million-dollar infrastructure improvement project.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Oceanit Laboratories, Inc.	Honolulu, HI	Prime Consultant, Civil/Env. Engineer, Biologist
b.	Okahara & Associates, Inc.	Hilo, HI	Mechanical Engineer

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **3**

21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ala Wai Small Boat Harbor Improvements **Honolulu, Oahu, Hawai'i**	2013	2014

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Department of Land and Natural Resources	Mr. Eric Yuasa	808/587-0122

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Scope: Oceanit prepared construction plans and specifications and secured permits to replace the existing 6-inch potable water main, including lateral connections, valves, and meters, with new four-inch and eight-inch water mains, lateral connections, valves, and meters.

A design for replacement of existing fixed finger piers with aluminum and composite floating piers, including ADA-accessible cross docks, at the 500 Row Docks of Ala Wai Small Boat Harbor (AWSBH) was also provided. Related improvements included gangways, security gates, and utilities (electrical and water).

Oceanit subcontracted or prepared:

- A topographic survey, including the location of utilities;
- A hydrographic survey;
- A geotechnical investigation;
- Conceptual designs and alternatives;
- Construction plans and specifications;
- An engineering cost estimate; and
- All required permits (Department of the Army permit, 401 Water Quality Certification) prior to construction. Oceanit also provided post-design services during bidding, and construction services for the waterline replacement.

Oceanit prepared and obtained approval of a Traffic Control Plan to provide safe work zones for the contractor and safe passageways for pedestrian and motorists passing through the construction site during installation of the water line.

Design Fee: $337,375 and Waterline replacement: $1.3 million

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Oceanit	Honolulu, Hawai'i	Prime consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: **6**

21. TITLE AND LOCATION (City and State)

Groin and Beach Nourishment at Kauai Kailani Condominiums
Kapa'a, Hawai'i

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ongoing	Anticipated summer 2022

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Association of Unit Owner of Kauai Kailani Condominiums	Brian Mose	(250) 248-0969

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Kauai Kailani has had several beach erosion since 2012, when a concrete groin upstream of the property was removed. Over a two-year period following the groin removal, erosion removed approximately 500 cy of sand. An emergency temporary sand bag revetment was installed in 2017 to protect the escarpment fronting the property. The temporary erosion control provided protection while Oceanit worked on planning a long-term solution.

The scope was to restore Kauai Kailani Beach by constructing a temporary sand bag groin and to use compatible beach sand that has accreted in the Waipouli Drainage Canal for beach nourishment fronting the condominiums. The proposed temporary sand bag groin was designed to occupy a similar footprint to the concrete structure that was removed in 2012.

The beach nourishment required approximately 1,000 cy of beach sand. Subsequent beach nourishments are anticipated after 3-4 years, with each 100-200 cy volumes, over the course of 10 years.


Post Construction


Erosion before project

Engineering design services included:

1) Site inspection, evaluation and recommendations;
2) Construction plans including grading, site, BMP notes and detail plans
3) Prepare specifications and contract documents
4) Prepare required permits
5) Construction support services when required.

Approximate construction cost: $1,000,000


Prior to beach construction

During Construction

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Oceanit Laboratories, Inc.	Honolulu, HI	Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: **1**

21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Mantokuji Soto Mission Shoreline Adaptation **Pāʻia, Maui, HI**	Ongoing	2023

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Mantokuji Mission Board of Directors	Eric Moto, Board President	

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The beach and shoreline at this historic Soto Zen Buddhist temple is eroding and much of the previously documented sandy beach has been lost. Historically, this beach was mined for sand used in public works. Without a beach to buffer coastal forces, inland areas are exposed to greater hazards including flooding, wave uprush, and scouring.

Oceanit was contracted by the Board of Directors for engineering assessment, agency coordination, and construction administration services related to the hazard mitigation. The historic temple structure is imminently threatened by the erosion.

The shoreline adaptation project included installation of emergency temporary erosion control structures along the uppermost portion of the beach profile, seaward of the property. The installation helps retain unstable soils and the slow progression of active shoreline erosion, which was approaching the foundation of the temple. This short-term mitigation measure will remain in place for about three years while the temple engages in a complex long-term planning process. Among the options being considered are restoring the protective beach in Mantokuji Bay, retrofitting the temple to accommodate future coastal hazards, and relocating or demolishing other structures if necessary.

Estimated Construction Costs: $400,000

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Oceanit Laboratories, Inc.	Honolulu, HI	Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **5**

21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
North Kawaihae Small Boat Harbor Improvements **Kawaihae, Hawai'i**	2021	2022 (est.)

23. PROJECT OWNER'S INFORMATION

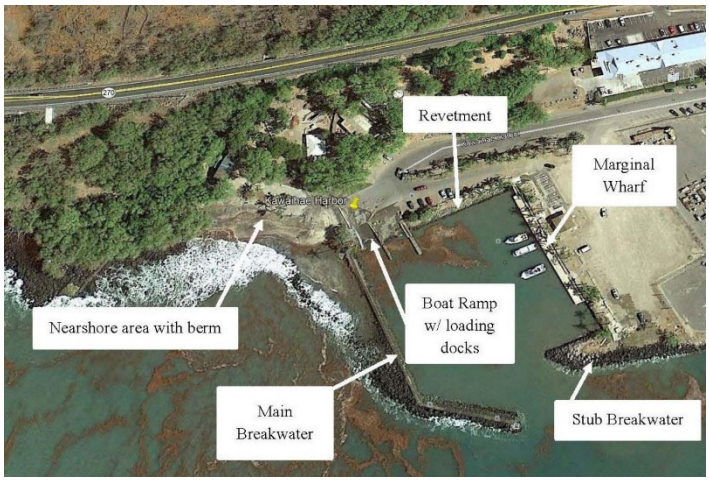
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Department of Land and Natural Resources Division of Boating and Ocean Recreation	Mr. Finn McCall, P.E.	(808) 587-3250 / finn.d.mccall@hawaii.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Oceanit is currently under contract with the Department of Land and Natural Resources Division of Boating and Ocean Recreation (DLNR - DOBOR) to provide designs for repairs to the small boat harbor. The main breakwater that is supposed to protect the harbor has undergone major repairs in the past due to wave damage. The most recent wave damage occurred in January 2020, rendering the marginal wooden wharf and much of the harbor utilities unusable. The proposed improvements will strengthen the compromised breakwater, construct a sand berm along the shoreline to prevent sand from accumulating on the boat ramp and replace or repair damaged infrastructure. These actions will remove safety hazards, improve conditions, and increase the usability of the harbor for harbor users.

Oceanit provided project management, topographic and bathymetric surveys, damage assessment reports for the main breakwater, marginal wharf, rock revetment, parking lot, boat washdown and drainage improvements, utility upgrades, a drainage evaluation, wave modelling and report, an Environmental Assessment, and all required permits.

Estimated Construction Cost: Main Breakwater - $4.62 million, **Infrastructure Improvements**: $1.16 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Oceanit	Honolulu, Hawai'i	Prime consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 8

21. TITLE AND LOCATION (City and State)

Community Outreach for Proposed Improvements to Kealakehe Wastewater Treatment Plant
Kona, Hawaii

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
2021	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Hawai'i County Department of Environmental Management	Craig Lekven Brown and Caldwell	808.442.3301

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

This project was not performed by Oceanit but managed and completed by Berna Senelly who is currently an Oceanit employee.

The Hawai'i County Department of Environmental Management (DEM) is proposing improvements to the Kealakehe Wastewater Treatment Plant (WWTP) that will allow for reuse of wastewater treated in accordance with the State of Hawai'i, Department of Health (DOH) Reuse Guidelines R-1 classification, as well as disposal of treated effluent not treated for R-1 classification.

A community outreach program was conducted to introduce people to the proposed project and provide information to help the community understand County objectives and the proposed means by which these objectives can be met. These outreach efforts were intended to raise awareness and engage the community in constructive dialogue throughout the planning and Environmental Impact Statement (EIS) stages so that the project team can proactively address community concerns as the project proceeds.

A key component of the outreach program is to incorporate early and ongoing guidance from a cross-section of key community leaders. The first stage of the outreach program was designed to lay the foundation for future community conversations and in-depth interviews were conducted with a wide cross-section of community/

The second stage of the outreach program was designed to expand on the in-depth interviews with focus groups of like-minded people who share common interests. This approach was designed to help participants fully explore topics from similar perspectives. Four focus groups were conducted including environment, business and landowners, recreation and public agencies.

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT *(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*	20. EXAMPLE PROJECT KEY NUMBER **1**

21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Program Management Consulting Support for the State of Hawai'i	2015	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
State of Hawai'i, Office of Information Management & Technology (OIMT)	Leila Kagawa	(808) 586-6000

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Scope: Oceanit provided organizational change management and information technology consulting services to the State of Hawai'i including:

- Support for the Enterprise Resource Planning (ERP) system RFP and preparation for implementation;
- Program management services for multi-million dollar programs including Tax System Modernization and Health IT; and
- Planning and stand up of the State's Program Management Center of Excellence (PMCE)

The State faces the daunting task of transforming legacy business practices and systems into a more modern, unified and efficient model. The rapidly changing world of information technology and the increasing requirements of a growing state present an opportunity to vastly increase the efficiency and effectiveness of state government. The scope of the projects include developing requirements, Achieving positive, lasting institutional change at this scale requires two essential elements in order to develop a working model for transformation and maximize its acceptance during implementation.

Oceanit was program manager for the statewide ERP program. Our scope of services include program management support in the following areas: strategic planning, governance, subject matter expertise, policy, portfolio management, enterprise architecture, business process reengineering, budget and financial planning, business case analysis, risk management, program management office, acquisition and strategic sourcing, organizational development and human capital management, organizational change management, communications and marketing, open government, quality assurance, training, facilitation, operations and service level management, application development, information assurance and privacy, and administrative support.

Critical to our foundation in managing our projects was our approach in assisting with change management, which included the following elements: Human Factors Element (HFE) – A planning and implementation method that incorporates the human factors influencing acceptance and utilization of innovative, new business solutions Business and Technology Element (BTE) – Efficient business processes with various options for technology systems and tools

The Oceanit team is uniquely qualified in both HFE and BTE aspects. Oceanit both applies and instructs companies and organizations in Hawai'i 's finance, tourism, technology and communications sectors in conceiving and implementing innovative business solutions uniquely suited for each application. This deep HFE experiencecombined with Oceanit's Hawai'i roots and 27 years of technology and innovation experience offers a truly unique approach to effectively facilitating significant change and acceptance for Hawai'i's Transformation Plan.

Cost: $ 3,139,742

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Oceanit Laboratories, Inc.	Honolulu, HI	Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 7

21. TITLE AND LOCATION (City and State)

Social Impact Assessment for the A&B Proposed Water Lease for the Nāhiku, Ke'anae, Huelo, and Honomanū License Areas
Lahaina, Maui, Hawaii

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
2021	N/A

23. PROJECT OWNER'S INFORMATION

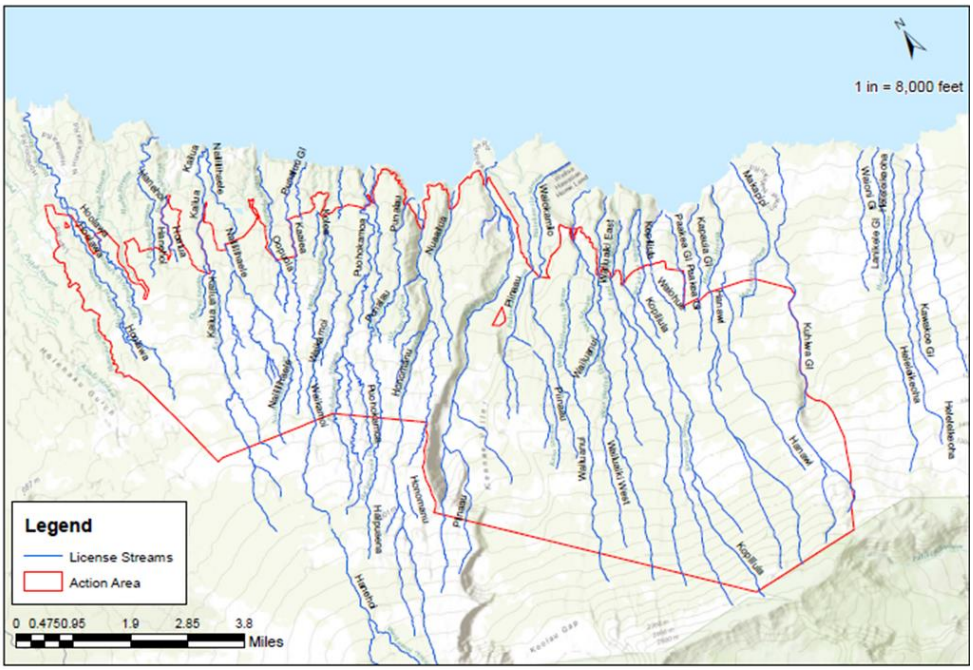
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
A&B	Keola Cheng, Wilson Okamoto and Associates	808.946.2277

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

This project was not performed by Oceanit but managed and completed by Berna Senelly who is currently an Oceanit employee.

Services included

- Development of a profile of the existing social environment including demographics, relevant historical influences and public policies and plans
- Identification and analysis of community issues based on seven focus groups and interviews with key community influencers
- Identification of potential social impacts, including potential to realize public policies, sustainable and local agriculture, and community interest in access to water collection areas. In addition, social impacts on specific social groups were identified



License Area Streams

F. EXAMPLE OF PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER: 4

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
Statewide Stormwater Management Program Plan **O'ahu, Hawai'i**	2010	

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Department of Transportation, Highways Division	Mr. Robert Shin	808/831-6705

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

To meet the requirements of a Consent Decree and the DOT Highways' NPDES Municipal Separate Storm Sewer System (MS4) permit, Oceanit was tasked with ensuring permit compliance with illicit connection/illegal discharge (IC/ID) elimination, industrial and commercial inspections (ICI), and waste load allocations (WLAs).

By employing a mobile data system developed by Oceanit's in-house information insights division, Oceanit completed the IC/ID inspections and reports required by the Consent Decree 5 months ahead of schedule. All ICI inspections and reports were also completed ahead of the strict deadlines set by the Highways' NPDES MS4 permit.

Oceanit helped DOT meet the requirements of a Consent Decree by preparing stormwater sampling and monitoring plans, collecting stormwater samples and testing and analyzing for key parameters during the course of the project. Annual WLA data reports were used to identify locations and types of potential permanent best management practices (BMPs) along State Highways right-of-ways and to quantify the Highways' contribution to the waste load entering environmentally impaired streams on Oahu. Oceanit's efforts on the WLA program complied with the requirements of the DOT Highways' NPDES MS4 permit. In 2008, the EPA auditor gave an excellent review of the programs for which Oceanit was responsible.

The approximate project cost was $3.1 million.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION *(City and State)*	(3) ROLE
a.	Oceanit	Honolulu, Hawai'i	Prime consultant

Additional Information

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

INTRODUCTION

Established in 1985 as an ocean engineering firm, Oceanit has expanded services to include civil, environmental, coastal, dam and reservoir engineering; environmental science; planning and permitting; and construction management. Oceanit's principal place of business at the company's headquarters located in downtown Honolulu. We also have an office in Houston, Texas, which serves as an operations center for pilot scale production and support of field development for a range of projects, products, and R&D in the Energy and Industrial sectors.

Today, Oceanit delivers transdisciplinary consulting engineering services. Our engineers, environmental scientists, field technicians, and planners work collaboratively to provide leading-edge reports and design concepts that minimize environmental impact, comply with regulatory requirements, and allow for efficient implementation.

Our team includes and experienced community planner and communications specialist who has designed and implemented dialogue programs for projects that have greatly benefitted from community participation.

PAST PERFORMANCE ON PROJECTS OF SIMILAR SCOPE FOR PUBLIC AGENCIES OR PRIVATE INDUSTRY

Project-proven professionals with a wide range of experience are available for project needs. Oceanit's staff members have extensive project management, engineering, environmental, and construction management experience with public works and private projects. In addition, staff members presented in this submittal have on-call and indefinite quantity contract experience and understand what it takes to complete multiple, concurrent assignments on a fast-track basis. Key personnel resumes for our *RiSE* team (Engineering and Planning) and subconsultants are presented in Section E of this submittal.

EXPERIENCE AND PROFESSIONAL QUALIFICATIONS RELEVANT TO THE PROJECT TYPE

Oceanit has provided engineering analysis, designs for new or rehabilitated utility and infrastructure systems, permitting services and construction management for over 36 years. Repeat clients includes the four Hawai'i counties, state, and federal agencies as well as private entities. This experience and in-depth knowledge of operations and procedures of these agencies provide our staff with the expertise to bring projects from conception to completion. Section F projects describe these relevant projects.

Civil Engineering. Oceanit is responsible for planning and design, environmental services, surveys and assessments, new or rehabilitated utility design, and construction management for a variety of civil engineering projects. During the past 5 years, Oceanit has worked on over 50 civil engineering projects with a combined contract value of $4.6 million. These projects have involved a multitude of site improvements, such as roadways, embankments, revetments, seawalls, piers, parking lots, sidewalks, dams and reservoirs, and water tanks. The firm's engineering teams tackle a wide range of complex problems and deliver timely, cost-saving solutions to a diverse client base.

Environmental Engineering. Oceanit has completed many environmental engineering projects throughout Hawai'i and the pacific. These projects include wetland restoration, bird habitat restoration, water and air quality monitoring, fish pond rehabilitation, hazardous materials assessment and remediation, underground storage tank removal and closure, total maximum daily load studies, water quality restoration in lakes, flood engineering, dam & reservoir safety, storm water compliance, best management practice design and implementation, and dredging. Oceanit typically provides complete permitting services for our clients, preparing applications, providing associated documentation and participating in consultations and meetings with regulatory agencies. We are familiar with and have worked with procedures, policies, and staff of county, state, and federal regulatory agencies and have successfully navigated the labyrinth of regulatory requirements for projects.

Water Resources Engineering. Oceanit's background includes the planning, analysis, design, and construction support of water pipelines, reservoirs, wastewater systems, and site development projects. Oceanit's engineers are adept in the areas of project cost control and comprehensive planning for water resources and utilities systems. With in-house expertise from the firm's environmental disciplines, Oceanit offers clients the ability to move projects efficiently from planning and design to construction. The firm has provided drainage and storm water engineering services for all divisions of the State of Hawai'i DOT and DLNR for over 30 years. Services have focused on storm water management; total maximum daily load determination; stream dredging; flood mitigation; hydrologic and hydraulic modeling; wetland improvement; storm water characterization; NPDES compliance monitoring for storm water, storm sampling, and analysis; and other water related issues.

Computer Science. Oceanit specializes in solving difficult IT problems ranging from small database and networking issues to large situational awareness databases for national clients. Oceanit's Information Insights (I/I) team specializes in developing mobile applications to enhance field data collection by improving the efficiency of field personnel and minimizing transcription errors. Solutions include the development of a mobile phone application for damage assessments for the State of Hawai'i Civil Defense to land information management systems for Kamehameha Schools. The firm's solutions are often integrated with geospatial databases, including GIS systems to provide geospatial analyses using both industry standard and open source software. Within the I/I team are business process re-engineering experts to determine client requirements early in the project. The firm's unique expertise and total quality management approach enables the ability to scale and manage complex projects ranging from a large $15 million project to very small projects under $20,000.

Project Management. Good project management monitors and coordinates all the key factors of communication, scheduling, cost, design, and quality assurance. The assigned Oceanit project manager will use a straightforward, computerized task order system that focuses on the key project issues and keeps track of all the details. Working with your staff, the project manager will develop specific task orders that define a discreet group of subtasks. Each task order will outline what is to be done, how it will be accomplished, the schedule and budget, the definition of the deliverable, and team member responsibilities. Oceanit's project manager will ensure that work progresses on schedule and within budget, and that appropriate actions are taken to keep the project progressing smoothly.

Construction Management. Oceanit's construction management team is experienced in the administration of construction contracts for projects in Hawai'i. Our construction specialists have the experience and practical skills to cultivate solid partnering relationships among the construction team. This expertise builds solid team consensus that leads to a well-defined project scope, streamlined procedures, and enhanced communication that minimizes owner and contractor risks. Services provided include contract document preparation, contract administration, and construction monitoring and inspection.

Organizational Change Management. Organizational change management (OCM) is an integrated practice that guides an organization through fundamental and lasting change. OCM gauges people's ability to adapt to and implement change, helps prepare people for change, deal with problems and conflicts, and implement necessary steps. If needed, Oceanit can provide OCM services to assist in evaluating processes, identifying problems, and determining the need and extent for change. In its most basic form, OCM aligns expectations, builds and integrates teams, provides governance and structure to the change implementation, and helps staff with the transition through communication, training and other means.

QUALITY ASSURANCE AND CONTROL

Oceanit has set procedures for conducting project activities. The project manager will select the most appropriate project team in consultation with all engineering division managers. The team may consist of engineers from appropriate disciplines, hydrologists, planners, and geologists depending on project requirements. The relevant project personnel attend an internal kickoff meeting where they are briefed on procedures to be followed for quality assurance and quality control (QA/QC) for planning, field work, sampling, data analysis, designs, and the preparation of plans and specifications, community interactions and other project activities.

Oceanit typically prepares a detailed QA/QC plan for each project and employs analysis methodologies commonly accepted by the engineering industry and approved by regulatory agencies to ensure acceptance and consistency in the data and designs produced. The Director of Engineering and two senior project managers from the fields of civil engineering, environmental science, and planning act as the final QA/QC team and check or proofread all deliverables for structure, technical accuracy and content, and then corrected as necessary prior to submittal to the client.

Client meetings are conducted at least on a monthly basis and at project milestones, to present progress, get clear direction on future actions, to discuss issues that come up during the implementation and to ensure client satisfaction. Oceanit has a designated project manager and an alternate staff person who can be contacted by the client any time.

CAPACITY TO ACCOMPLISH THE WORK IN THE REQUIRED TIME

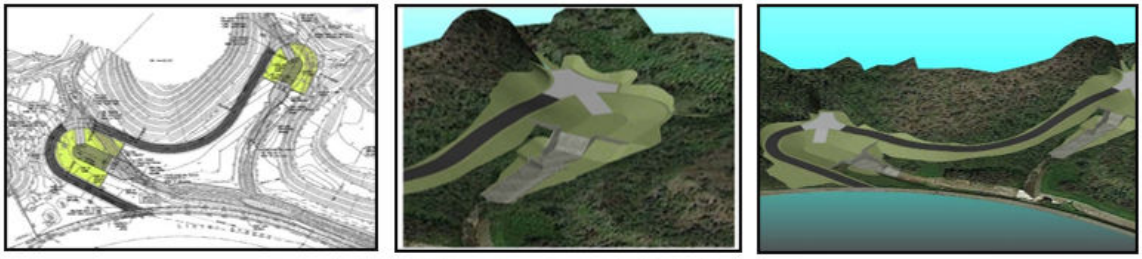
The Oceanit team has executed multiple contracts involving a wide range of civil, environmental and coastal planning, engineering and field services. Our goal is to provide quality professional services for government agencies, while protecting properties, ensuring the safety of residents and conserving and enhancing the infrastructure and natural environment of Hawaii. Each of our staff is experienced in all phases of projects including planning, report preparation, permit applications, generating plans, specifications and cost estimates, field work, environmental monitoring and public outreach. Oceanit's consulting team has been steadily growing, with recently added personnel experienced in project design, construction

management, and community planning. With new team member support, the team has the capacity to service the subject project while simultaneously executing existing contracts.

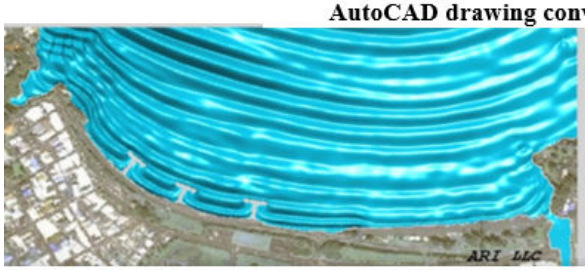
INNOVATIVE/UNIQUE APPROACHES FOR FURNISHING SERVICES

Computer Modeling can be used as appropriate to assess existing and improved conditions on roadways and adjacent land. Oceanit has used modeling for evaluating potential solutions for projects requiring flood mitigation or drainage improvements and spillway adequacy studies for dams and reservoirs as well as design of temporary or permanent BMPs. We have conducted numerous Hydrologic and Hydraulic (H&H) analyses using computer models to develop Emergency Action Plans to simulate dam break scenarios and resulting flood inundation zones. GIS-based utility modeling was used for evaluation and design of water, sewer and storm drain systems at a number of Army bases on O‘ahu. Modeling to simulate high wave conditions and wave penetration has proven useful for design of harbor and coastal roadway improvements. See below for Hilo Bayfront Highway screenshots of wave penetration animation.

3D Technology in Data Visualization. Oceanit engineers utilize 3D technology in data visualization. The technology helps us clearly convey existing site conditions and proposed improvements to our clients and affected stakeholders. An example of this capability was used for the Salt Lake Debris Basins BMP project to convert AutoCAD drawings to 3D renderings (see below). For the Hilo Bayfront Highway project, oblique views of proposed improvements can be overlaid on Google maps (bottom right) to provide a visual view of proposed improvements. In addition, Oceanit has an in-house 3-D printer that can build scaled physical models to convey the project concepts or ideas interactively with stakeholders and the public. The photos below show a 3-D model of the Ala Wai watershed, which flooding maps and animations can be projected onto. Oceanit used this tool to present the flooding results in client and community meetings.

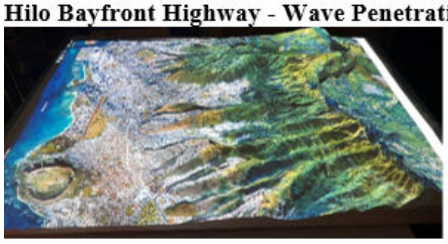


AutoCAD drawing converted to 3D rendering



Hilo Bayfront Highway - Wave Penetration Animation

Oblique View of Proposed T-Groins



3D Model of Ala Wai Watershed

Showing Flooding Animations Using 3D Watershed Model

Remote Monitoring. Our engineers and technicians can remotely transmit vital information to our office. For example, we collected a years’ worth of temperature and salinity data from acoustic doppler current profilers, thermistor strings, and salinity sensors mounted on two deep sea ocean buoys. The data was remotely downloaded to a laptop on shore and used to model the behavior of the plume created by Honouliuli Wastewater Treatment Plant (WWTP) effluent. A remote system was also used to collect and transmit dust data generated at a bridge widening construction site in Wailua, Kaua‘i. The Contractor used the system to stay in compliance with State of Hawai‘i regulatory requirements. The instrument systems included solar powered, real-time, continuous dust monitors and data recorders, a weather station to measure wind and rainfall, and software for dust mass concentration analysis and report generation. An automatic alarm notification system

was developed that warned Contractor site supervisors of impending non-compliance conditions with a text message or email, allowing sufficient time to correct the situation. Oceanit created a website that was updated every 10 minutes with the latest monitoring data and equipment status.

Information Technology Solutions. Oceanit's Innovation Insights (II) staff can work closely with our engineers and inspectors to provide forms, manuals and reports tailored to their needs and comply with all State and Federal requirements. Oceanit has the in-house capabilities to perform both Microsoft SQL Server and Oracle database development services for a variety of projects. Recent completed projects include the Statewide Dam Inventory for DLNR Dam Safety, Water Resources Information Management System and the Enforcement Management System for DLNR DOCARE. We also have recently completed projects for DOH, C&C of Honolulu, the County of Hawaii Department of Water and federal agencies.

Machine Learning and Artificial Intelligence. Oceanit's AI team has developed machine learning AI applications that allow computers to digest data, recognize patterns, and infer answers to critical strategic problems. Some examples across various industries include rapid infrastructure damage assessment , traffic studies, erosion rate definition, object/crowd counting, state of health prediction, predictive maintenance, and detecting material composition using light absorption.

Student Outreach Program. Oceanit is a major advocate for bringing science and technology to schools around Hawai'i and bringing students into real engineering projects. Our mission is to empower Hawai'i's kids with skills and experiences that are Human-, Business-, and Technical-based, so they can build greater prosperity for all of Hawai'i. Oceanit's Altino program partners with local K-12 schools to train teachers and students to learn coding and programing in interactive and entertaining ways. We also provide learning opportunities to High School students by involving them in real engineering projects, if allowed and desired by clients.

REFERENCES

Oceanit's project team has the experience and qualifications to complete the requested professional services on time and within budget. All project deliverables will meet or exceed your standards and expectations. The best judges of the firm's past performance are the clients who have benefitted from Oceanit's efforts. Please contact the following references to verify service, technical skills, quality, and schedule and budget performance. All references listed below have worked with Oceanit within the preceding year.

- Ms. Diana Lee, Project Manager
  State of Hawai'i, Department of Transportation, Airports Division
  808/953-5182, diana.lee@hawaii.gov

- Ms. Mung Fa Chung, Engineering Project Manager
  State of Hawaii, Department of Transportation, Highways Division
  808/832-3403, mungfa.chung@hawaii.gov

- Mr. Finn D. McCall, P.E.
  State of Hawai'i, Department of Land and Natural Resources, DOBOR
  808/587-3250, finn.d.mccall@hawaii.gov

- Mr. Brandon H.L. Shima
  University of Hawaii Office of Project Delivery
  808/216-4780; bshima@hawaii.edu

CONFLICT OF INTEREST

Oceanit does **not** have any conflict of interest in performing services for the State of Hawai'i.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE	32. DATE
	26 May 2023

33. NAME AND TITLE

Ken Cheung, PhD, PE, Science and Engineering Director

General Qualifications

PROFESSIONAL SERVICE PROVIDER QUALIFICATIONS

1. SOLICITATION NUMBER (*if any*): *N/A*

PART II – GENERAL QUALIFICATIONS

(*If a firm has branch offices, complete for each specific branch office seeking work.*)

2a. FIRM (OR BRANCH OFFICE) NAME			3. YEAR ESTABLISHED	4. DUNS NUMBER
Oceanit Laboratories, Inc.			1985	144540283
2b. STREET			5. OWNERSHIP	
828 Fort Street Mall, Suite 600			a. TYPE: Corporation	
2c. CITY	2d. STATE	2e. ZIP CODE	b. SMALL BUSINESS STATUS	
Honolulu	HI	96813	Not Applicable	
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (If block 2a is a branch office)	
Dale Uno, Community Outreach Specialist/Proposal Manager				
6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS			
808/531-3017	duno@oceanit.com			
8a. FORMER FIRM NAME(S) (If any)			8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER
Not Applicable				

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRCH.
02	Administrative	5	
07	Biologist	2	
08	CADD Technician	1	
11	Chemist	2	
12	Civil Engineer	5	
14	Computer Programmer	9	
15	Construction Inspector	2	
16	Construction Manager	2	
17	Corrosion Engineer	3	
18	Cost Engineer/Estimator	1	
23	Environmental Engineer	1	
24	Environmental Scientist		
32	Hydraulic Engineer	2	
40	Materials Engineer	4	
47	Planner; Urban/Regional	1	
48	Project Manager	4	
49	Remote Sensing Specialist	2	
58	Technician/Analyst	2	
62	Water Resources Engineer	1	
	Other Employees	72	
	TOTAL	123	

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number (see below)
A06	Airports; Terminals and Hangars; Freight Handling	5
A10	Asbestos Abatement	3
C07	Coastal Engineering	5
C15	Construction Management	4
D02	Dams (Earth; Rock); Dikes; and Levees	4
D08	Dredging Studies and Design	1
E09	Environmental Impact Assessments or Statements	4
E11	Environmental Planning	1
E12	Environmental Remediation	4
E13	Environmental Testing and Analysis	2
H01	Harbors; Jetties; Piers, Ship Terminal Facilities	2
H13	Hydrographic Surveying	1
I06	Irrigation; Drainage	2
O02	Oceanographic Engineering	1
P05/P06	Planning (Community and Project)	1
R11	Rivers; Canals; Waterways; Flood Control	4
S10	Surveying; Platting; Mapping; Flood Plain Studies	2
S13	Storm water Handling and Facilities	4
W03	Water Supply; Treatment and Distribution	4

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	8
b. Non-Federal Work	7
c. **Total Work**	8

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than 10 million
8. $10 million to less than 25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE	a. DATE
Ken Cheung Ken Cheung, PhD, PE Science and Engineering Director	5/20/2023

FEDERAL STANDARD FORM 330

SUPPLEMENTAL QUESTIONS

If using the FS Form 330, please provide the following data about your firm. If the questions do not apply, enter "N/A".

1. Number of employees: 20 (Engineering Section)
2. Number of active projects as prime: 51
3. Number of active projects as associate: 0
4. Total estimated construction cost of present projects (only portion for which your firm is responsible): $ 60,000,000.00

Appendix I
Oceanit Key Personnel Certifications

STATE OF HAWAII

DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS

PROFESSIONAL ENGINEER

This is to Certify that
JASON Y LEE
was duly licensed as a

PROFESSIONAL ENGINEER

In the State of Hawaii.

and is therefore authorized to practice this Profession within the State of Hawaii. In witness whereof, this License has been issued and the Seal of the Board affixed hereto, this 23rd Day of November, A.D 2009

No. 13669

Chairperson

PE-17342

MICHAEL J H FOLEY
3238 PATY DR
HONOLULU, HI 96822

PROFESSIONAL ENGINEER
NOTICE THIS POCKET ID CARD IDENTIFIES YOU TO THE PUBLIC AS BEING CURRENTLY LICENSED AND SHOULD BE KEPT IN YOUR POSSESSION AT ALL TIMES.

License Number
PE-17342

Expiration date
4/30/2024

STATE OF HAWAII DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS

PROFESSIONAL ENGINEER

CLASS(ES): CE CIVIL

MICHAEL J H FOLEY
3238 PATY DR
HONOLULU, HI 96822

SIGNATURE OF LICENSEE

CLASSES (ACTIVE):

STATE OF HAWAII

DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS

PROFESSIONAL ENGINEER

This is to Certify that
OM S DAS
was duly licensed as a

PROFESSIONAL ENGINEER

In the State of Hawaii.

and is therefore authorized to practice this Profession within the State of Hawaii. In witness whereof, this License has been issued and the Seal of the Board affixed hereto, this 12th Day of October, A.D 2015

No. 16715

Chairperson

STATE OF HAWAII

DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS

BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS

This is to Certify that
LINYAN LI GOO
was duly licensed as a

PROFESSIONAL ENGINEER

In the State of Hawaii.

and is therefore authorized to practice this Profession within the State of Hawaii. In witness whereof, this License has been issued and the Seal of the Board affixed hereto, this 21st Day of February, A.D 2023

No. 20193

Chairperson

STATE OF HAWAII

DEPARTMENT OF COMMERCE AND CONSUMER AFFAIRS

BOARD OF PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS

hereby certifies that on the date hereof

JORDAN W MONIUSZKO

was duly licensed as a

PROFESSIONAL ENGINEER

and is therefore authorized to practice this Profession within the State of Hawaii

In witness whereof, this License has been issued and the Seal of the Board affixed hereto, this 11th day of December, A.D. 2018 at Honolulu, Hawaii.

Roberto B Kumool

Chairperson

No. 18274

The Construction Manager Certification Institute

CCM

Certified Construction Manager

Jordan Moniuszko

has voluntarily met the prescribed criteria of the CCM program with regard to formal education, practical experience and demonstrated capability and understanding of the construction management body of knowledge. The aforementioned individual has met the professional standards and demonstrated a commitment to providing the highest level of quality professional construction management services.

14192

CMCI #

D. J. Mason III

CMCI Board of Governors Chair

March 2021

Certification Date

March 2024

Valid Through

Appendix II
Oceanit Brochure

oceanit®
innovation through engineering & scientific excellence

WWW.OCEANIT.COM | INFO@OCEANIT.COM

DELIVERING / SCIENCE & TECHNOLOGY / ENGINEERING CONSULTING / INNOVATION CONSULTING

OCEANIT IS REIMAGINING INNOVATION, TO BREAK THE BONDS OF 'NORMAL' AND SOLVE THE IMPOSSIBLE.

Oceanit is a 'Mind to Market' company founded in 1985 on Oahu, Hawai'i. We have earned a world-class reputation for moving fundamental scientific breakthroughs from the lab to the market. Built upon our values of Curiosity, Community, and Ohana, we are a skilled group of scientists, engineers, innovators, and entrepreneurs delivering solutions, products, and services to clients across a multitude of diverse industries.

Mind to Market is the disciplined process that allows us to deliver our breakthrough science to real-world users. Oceanit delivers cut-edge solutions, services, and products to customers across a vast range of industries. Using a variety of paths to market - including corporate co-development, private equity financing, managed acquisition, and direct manufacturing - Oceanit delivers disruptive innovation to the world.

Oceanit practices a proprietary discipline we call Intellectual Anarchy™ that reimagines innovation - empowering our team to break down silos, transcend disciplines, and cross-pollinate ideas and expertise. We create breakthrough ideas, insights, discoveries, and developments as an interdisciplinary force.

Delivering the Future

Oceanit is reimagining innovation to break the bonds of normal and solve the impossible. We are ambitious explorers and discoverers. By embracing transdisciplinary teams and thinking, we create value through innovative science, technology and engineering to make an extraordinary impact on our future.

RiSE

The Resilient Sustainable Engineering (RiSE) team is focused on innovative, responsible, effective, and sustainable engineering solutions. RiSE delivers infrastructure, community works, and ecosystems that are capable of surviving and functioning under chronic stress and recovering quickly from extreme events.

Science & Technology

The S&T team is made up of scientists, engineers, academics, and doctors working at the jagged edge of science to infuse innovation across industries. We develop, sustain, and improve upon technologically superior products and services – while becoming a trusted and valued partner to our customers.

Innovation Consulting

The Innovation Consulting (IC) team contributes to our clients' success and evolution by practicing Design Thinking and empowering organizational change. IC derives value from data, user needs, and process pain points - providing relevant and actionable insights – to solve human-centric problems.

OCEANIT GLOBAL | Honolulu | Houston | Palo Alto | Washington DC
Phone: (808) 531-3017 | info@oceanit.com | oceanit.com

oceanit®
innovation through engineering & scientific excellence

WWW.OCEANIT.COM INFO@OCEANIT.COM

OCEANIT RiSE | RESILIENT SUSTAINABLE ENGINEERING CONSULTING

Build a Sustainable Future Through Innovative, Responsible, and Impactful Engineering Solutions

For over 35 years, Oceanit has worked to solve the unique and diverse engineering challenges facing coastal communities and ecosystems. Our mission is to develop innovative and sustainable engineering solutions that work ***for*** people and ***with*** the environment – solutions that will survive and function for decades to come, resisting chronic stress and recovering from extreme events.

The Resilient and Sustainable Engineering (RiSE) team is made up of engineers, scientists, and planners working together to build a positive future for Hawai‘i and other Pacific communities in the face of the steep ecological and economic challenges of climate change.

Utilizing advanced modeling, Design Thinking, and artificial intelligence technologies, RiSE provide leading-edge consulting, reports, and designs that go beyond traditional engineering to minimize environmental impact while maximizing sustainable results. Oceanit is building a better future for our islands and beyond through innovative, responsible, and impactful engineering solutions.

Coastal Engineering

RiSE focuses on dynamic coastal processes, including the impacts of sea-level rise, reef depletion, and beach erosion on communities, infrastructure, and natural ecosystems.

- Beach nourishment & shoreline erosion protection
- Advanced data-capture & artificial intelligence-assisted analysis
- Coastal process analysis and modeling
- Submerged reef design

Environmental Engineering

RiSE provides innovative solutions to protect the environment, monitor our precious ecosystems, and safeguard habitat resources. Our philosophy is to serve as environmental stewards of our land, working with natural processes to ensure enduring success.

- Environmental monitoring pollution control
- Wetland, marsh, and ecosystem restoration and monitoring
- Document preparation for planning and permitting
- Environmental assessments

Water Resources Engineering

RiSE has extensive experience and expertise working with water resources and their associated range of economic, environmental, and social benefits.

- Flood control design and modeling
- Wastewater/outfall monitoring
- Dam/reservoir inspection, decommissioning, and rehabilitation
- Groundwater resource development and assessment

Civil Engineering

RiSE works on a variety of projects to install, repair, upgrade, or replace utility and transportation infrastructure, with careful consideration for the people who will use them.

- Harbor and utilities engineering
- Construction permitting and construction management
- Site development design
- Airport and transportation infrastructure

Oceanit Center 828 Fort St Mall, Suite 600 Honolulu, HI 96813
http://www.oceanit.com/engineering-consulting

SCIENCE & TECHNOLOGY | SOLVING THE IMPOSSIBLE

Oceanit's Science & Technology team identifies impactful problems and develops groundbreaking, transdisciplinary solutions on the jagged edge of science. The team of scientists, engineers, academics, and MD's are delivering a better future for the world. We are pioneering a new model of innovation: driving breakthrough technologies from Mind to Market: shepherding radical ideas from theory, to field trial prototypes, and onward to real-world applications.

Our interdisciplinary projects blend disciplines, cross-pollinate ideas, and deliver human-centered solutions. We seek to develop, sustain, and continually improve-upon technologically superior products & services across diverse industries.
Our expertise includes:

- Nanotechnology & Materials
- Artificial intelligence
- Sensors & Communications
- Computer Vision & Software
- Life Sciences: therapeutics & treatments
- Aerospace & Defense
- Energy, oil & gas
- IoT

Nanotechnology

Oceanit has developed a range of nanocomposite materials which impact many industries. These materials have a broad spectrum of advanced functions like self-healing, wettability, hydrophobicity, ice-phobicity, oleophobicity and more.

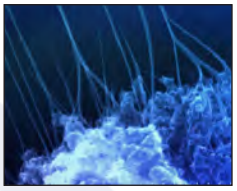
Artificial Intelligence

Oceanit is delivering groundbreaking work in the field of Artificial Intelligence; not just machine learning and neural nets, but next generation 'anthronoetic,' or "human-style" cognition based on moral linguistics. We call this AI "NoME": Noetic Mathematical Engine.

Sensors & Communication

Smart material sensors, precision tracking, advanced mesh networks, and global positioning are just a few of the sensor & communication technologies worked on at Oceanit, that impact industries such as Defense, Energy, Transportation, and more.

Life Sciences



Life sciences at Oceanit encompasses research, development, technology transfer and commercialization of medical products and devices. We bring together work in Nanotechnology, Software & Sensors to develop novel approaches to life-saving problems.

Computer Vision

Oceanit is pioneering ways to make computer vision processing easy and intuitive. The in-house developed Versatile Image Processing Architecture (VIPA) enables rapid prototyping and fluid creative processes through an intuitive user interface; ingesting data from a variety of disparate sources.

Industrial Innovations

Oceanit is developing a host of advanced technologies for the industrial sector. From flexible fuel cells and batteries to noise-reducing blast nozzles and advanced metal plating systems, our engineering and scientists are bringing their combined expertise to deliver cutting-edge industrial sector solutions.

Appendix III
Proof of Company Insurance
Certificate of Vendor Compliance

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/08/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: William Sandkuhlero	
Atlas Insurance Agency, Inc. 201 Merchant Street Suite 1100 Honolulu HI 96813	PHONE (A/C, No, Ext): (808) 533-3222	FAX (A/C, No): (808) 533-8777
	E-MAIL ADDRESS:	

INSURED	INSURER(S) AFFORDING COVERAGE	NAIC #
Oceanit Laboratories, Inc. 828 Fort Street Mall, Suite 600 Honolulu HI 96813	INSURER A : *Crum & Forster Specialty Insurance Comp	44520
	INSURER B : First Insurance Co. of Hawaii, Ltd.	00005
	INSURER C : First Indemnity Insurance of HI, Inc.	41734
	INSURER D : *Broker: NMF Insurance Inc.	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** 22-23 CCG3 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR [X] Professional Liability [ ] GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [ ] PRO-JECT [ ] LOC [ ] OTHER:			*This insurance contract is issued by an Insurer which is not licensed by the State of Hawaii and is not subject to its regulation or examination. If the Insurer is found insolvent, claims under this contract are not covered by any guaranty fund of the State of Hawaii. *EPK141720 Broker Name: NMF Insurance Inc / IC International License #: 118063 Address: 1022 Bethel Street. Suite 100, Honolulu, Hawaii 96813	11/13/2022	11/13/2023	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG Professional Liability	$ 1,000,000 $ 300,000 $ 25,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $ 1,000,000
B	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [X] HIRED AUTOS ONLY [X] NON-OWNED AUTOS ONLY [ ] [ ]			CBA10002198772	11/13/2022	11/13/2023	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ 1,000,000 $ 1,000,000 $ 1,000,000
	[ ] UMBRELLA LIAB [ ] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $						EACH OCCURRENCE AGGREGATE	$ $
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N [ ] (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		FWC100010127021	11/13/2022	11/13/2023	[X] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 500,000 $ 500,000 $ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Proof of insurance certificate provided for coverages indicated.

CERTIFICATE HOLDER

Oceanit Laboratories, Inc.
828 Fort Street Mall, Ste 600
Honolulu HI 96813-0000

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2015 ACORD CORPORATION. All rights reserved.

STATE OF HAWAII
STATE PROCUREMENT OFFICE

CERTIFICATE OF VENDOR COMPLIANCE

This document presents the compliance status of the vendor identified below on the issue date with respect to certificates required from the Hawaii Department of Taxation (DOTAX), the Internal Revenue Service, the Hawaii Department of Labor and Industrial Relations (DLIR), and the Hawaii Department of Commerce and Consumer Affairs (DCCA).

Vendor Name: **OCEANIT LABORATORIES, INC.**

DBA/Trade Name: **OCEANIT LABORATORIES, INC.**

Issue Date: **03/21/2023**

Status: **Compliant**

Hawaii Tax#: 20369234-01
New Hawaii Tax#:
FEIN/SSN#: XX-XXX8128
UI#: XXXXXX6037
DCCA FILE#: 60203

Status of Compliance for this Vendor on issue date:

Form	Department(s)	Status	
A-6	Hawaii Department of Taxation	Compliant	
8821	Internal Revenue Service	Compliant	
COGS	Hawaii Department of Commerce & Consumer Affairs	Compliant	
LIR27	Hawaii Department of Labor & Industrial Relations	Compliant	

Status Legend:

Status	Description
Exempt	The entity is exempt from this requirement
Compliant	The entity is compliant with this requirement or the entity is in agreement with agency and actively working towards compliance
Pending	A status determination has not yet been made
Submitted	The entity has applied for the certificate but it is awaiting approval
Not Compliant	The entity is not in compliance with the requirement and should contact the issuing agency for more information