

Understanding of Town's needs

The approach of the Coastal Eco-Group team is to provide exemplary client service, a cooperative and collaborative approach to defining specific scopes of work, and timely responses. We will provide services that build upon the prior efforts of the Town with recommendations and goals to assist the Town in assessing and improving the ecological appropriateness and cost effectiveness of the Town's Marine Resource Assessment and

Monitoring Program. The goals for performing marine resource assessments and monitoring for the Town are to evaluate project-related physical and/or biological effects and the direct, indirect, and cumulative effects of historic, current, and future coastal activities on nearshore hardbottom habitats and listed species which utilize these habitats. Monitoring programs are an important part of coastal construction projects but must be designed effectively and be adaptive so that data collection is constantly improved and methods that do not work are eliminated.



A key to monitoring program development and implementation is the ability to differentiate between project-related effects and changes that occur as the result of natural events, such as hurricanes. The Coastal Eco-Group Team has unparalleled experience working with the Town of Palm Beach, and our institutional knowledge of the region makes our team a valuable asset for your Coastal Management Program.

The CEG team supported the Town of Palm Beach during development of the Palm Beach Island Beach Management Agreement (BMA) Initiative. Our professionals were fully engaged with the State and Federal resource protection agencies as a comprehensive monitoring program was developed for Palm Beach Island. Our team has demonstrated over the past six years that we are cost effectively implement the biological and environmental monitoring program mandated in the BMA. Due to our long-term involvement in the Town of Palm Beach's Coastal Management Program, our team is able to recommend specific methods and monitoring protocols that provide a scientifically rigorous program that is cost effective in its implementation without compromising ecological value. The CEG has completed all work orders without requesting additional funds to complete the services.

Marine resource assessments and monitoring includes quantitative in situ scientific diver surveys, underwater video and still photo documentation, observation and documentation of general conditions of the benthic communities in terms of stress responses, sedimentation, diseases, and visual health. The in-water work will be conducted by qualified marine biologists that have been approved by FDEP to conduct benthic assessments. Nearshore hardbottom transects and quadrats will be used as fixed biological monitoring stations. Visual inspection and video documentation will be captured of the hardbottom areas along the transect lines and within one meter on either side of the line including quadrat monitoring stations. An inventory of



marine resources will be utilized to document and provide a quantitative and qualitative data set that will be utilized to assess and comparatively evaluate changes in benthic macroinvertebrate and macroalgal communities. Biologists will also measure sediment depths and sand patches along each cross-shore transect for identifying project-related sediment impact. Visual inspections will include identifying whether benthic organisms are being, or have been, stressed by factors other than natural events. The addition and more frequency monitoring of permanent sediment transects will provide data on the natural variation in sediment movement/cover in the BMA cell in areas outside of the influence of coastal projects.

Development and Implementation of Project Specific Biological and Environmental Monitoring Plans. As discussed previously, the Coastal Eco-Group team was integral in the development of the comprehensive BMA monitoring program and implementation of the first five years of annual monitoring. We effectively developed and presented a suite of mitigation strategies to the State and Federal agencies that resulted in an unprecedented



authorization for the Mid-Town Beach Nourishment Project that resulted in a long-term mitigation plan to compensate for temporary impacts to hardbottom resources. Resource protection agency acceptance of the Coastal Eco-Group's Unified Mitigation Assessment Method evaluation represents a holistic approach to compensating for unanticipated impacts resulting from project construction.

The Coastal Eco-Group is uniquely qualified to implement the project specific and regional biological and environmental monitoring programs for the Town of Palm Beach because our team's professionals have been the primary authors of these plans since 2003 and have been implementing the FDEP's BMA monitoring plan since 2014.

Conduct Various In-water Sea Turtle, Fish, and Other Marine Organism and Habitat Assessments, Including State and Federally Listed Endangered and Threatened Species. The

State and Federal resource protection agencies have required that the Town implement monitoring programs during and after project construction to determine whether listed species

use of restored shorelines is affected by a project. The Coastal Eco-Group team understands that the Town of Palm Beach retains a Florida Fish and Wildlife Conservation Commission (FWC) authorized consultant to provide sea turtle nest and hatchling monitoring services as part of their commitment to environmental resource management. It is our assumption that due to the specific nature of the existing agreement, the Town will continue to contract these services independently from those requested herein. Coastal Eco-Group personnel have worked with the Town's current Sea



Turtle Monitoring Program professional and will interact as necessary to accomplish the Town's objectives for species protection.

The Coastal Eco-Group team is experienced in coordinating the environmental requirements of the listed species in relation to the design requirements for a successful project, which has performance standards that will meet the Town's expectations.



The FWC, NMFS, and USFWS view nearshore and offshore hardbottom habitats and estuarine seagrass communities as critical habitat for foraging juvenile green sea turtles (*Chelonia mydas*). The required natural and artificial reef monitoring program for two of the Town's shoreline restoration projects at Phipps Ocean Park, and Mid-Town, as well as the Palm Beach Harbor Navigation Project, all require specific monitoring of macroalgal species and benthic communities be conducted to evaluate and document conditions for the specific purpose of determining whether sufficient foraging resources are present in the study area. Extensive inwater active and passive monitoring techniques have been employed to survey and document the presence of all sea turtle species. Specific reporting of monitoring program findings are a condition of the applicable state and federal project permits for not only sea turtle species, but all documented floral and faunal species.

Considering the proximity of hardbottom resources to the Town's various project sites, it is imperative that coordination with the Federal agencies on this issue is performed proactively. The Town may be required to conduct a comprehensive survey of hardbottom habitats within and adjacent to their project areas to document the presence/absence of *Acropora* species and the seven candidate stony coral species for implementation of appropriate protection measures,

The Coastal Eco-Group team of professionals are experienced in the development, performance, and reporting of every aspect of environmental monitoring required by the resource protection agencies. The Coastal Eco-Group Team has extensive experience in coordinating listed species issues with the NMFS as well as the FWS.

2.8-4. Management of the Town's Long-term Coral Nursery Program, Including Coral Transplant Success Evaluation. Coastal Eco-Group's professionals successfully completed the first year of coral transplantation and coral nursery program implementation. Our team coordinated with the Port of Palm Beach to harvest over 500 orphan coral colonies from Slip 3 and transplanted them to the Town's 0.8 Acre Artificial Reef Site. Our approach to the long-term management and implementation of the program is to use traditional and innovative opportunities that allow the Town to fulfill its obligations in a cost-effective manner.

Preparation of National Environmental Policy Act (NEPA Compliance Documentation, Including Environmental Impact Statements (EISs) and Environmental Assessments (EAs). Our team of NEPA practitioners has been providing direct support to numerous federal, state, and local agencies and private clients for more than 50 years. The professionals on the Coastal Eco-Group team have managed large, complex NEPA projects throughout Florida and across the country. Our team has consistently demonstrated an ability to produce easily understood NEPA documents of the highest quality, withstanding high levels of public and regulatory scrutiny.

Coordination with Local, State, and Federal Regulatory and Advisory Agencies. Coastal Eco-Group's professionals have unparalleled experience in environmental monitoring throughout the State of Florida. As a result of our previous work with the Town and other local project sponsors, we have developed extensive long-term relationships with regulatory agency personnel at the state and federal agencies. Our relationships with agency personnel are based on mutual respect and we have been very successful in coordinating project needs with agency personnel and advisory agencies. Our team will provide open and regular communication with the Town, FDEP, USACE, and federal/state commenting agencies.

Perform Desktop and Field Mapping Analyses, Including Consistency with Federal Geographic Data Committee (FGDC) Standards. A Town-wide Geographical Information



System (GIS) database has been developed, and the CEG has managed the Town's GIS databases of hardbottom exposure since 2014. Continuation of the data collection and incorporation into a comprehensive coastal resource database is recommended.

The Coastal Eco-Group team understands that the acquisition of rectified digital aerial photographic data is a FDEP and USACE permit requirement for several of the Town's projects. Generally, the collected data is obtained as part of the annual physical beach and offshore profile survey services provided to the Town. In several instances the aerial imagery is utilized for the analysis of hardbottom habitat presence/absence documentation that is an important aspect of the Town's Marine Assessment and Monitoring program requirements. The Coastal Eco-Group team is prepared and highly qualified to provide the required survey services and is capable of coordinating with the appropriate aerial data collection firm to assist the Town in complying with the various aspects of their required environmental and physical monitoring programs.

Permitting Assistance for Both State and Federal Approval / Authorization of Coastal Protection Projects. Coastal Eco-Group's professionals have provided design and permitting services for numerous similar projects within the Town of Palm Beach, and throughout Florida. The team has the experience and an unparalleled understanding of these complex projects and our extensive long-term relationships with regulatory agency personnel at the state and federal agencies will aid in an efficient and effective regulatory process.

Our team will provide open and regular communication with the Town, FDEP, USACE, and federal/state commenting agencies. Permitting is directly tied to the rules and regulations, for which knowledge is imperative to be able to navigate those nuanced elements where subject judgment dominates. Much of the information involved in the project overlaps between the State and Federal regulatory programs. Therefore, the Coastal Eco-Group team will work very closely on executing tasks that allows the Town to expedite regulatory review and approval in order to avoid or minimize redundancy.

Understanding that the Town's projects fall under the Beach Management Agreement reduces the coordination needed for FDEP authorization. While the State's regulatory process may be somewhat streamlined as a result of adoption of the BMA, the Federal regulatory process may still present challenges. The Coastal Eco-Group team is prepared to support the Town as it implements your Coastal Management Program.

Coastal Eco-Group's professionals are prepared to support the Town during pre-application or other meetings with the regulatory and commenting agencies to present and discuss the specific project elements. The purpose of these meetings will be to coordinate with the resource protection agencies to explain the basis of the project need and decisions reached in formulating the proposed project(s). A goal of these coordination meetings is to obtain agency input on the proposed project, identify additional data needs and concerns, and develop responses to those issues before submittal of the permit application package or in advance of a formal request for additional information. Meeting with the agencies periodically during the regulatory review process should facilitate a more expedient permitting process.

Estuarine Analysis and Study, Specifically Lake Worth Lagoon and Palm Beach Inlet. The Coastal Eco-Group team has extensive expertise in seagrass monitoring, restoration, and mitigation projects in Lake Worth Lagoon. Since 2011, CEG has performed annual monitoring of permanent seagrass transects in Lake Worth Lagoon for Palm Beach County, and during the summer/fall of 2013 and 2018, CEG scientists ground-truthed locations in the Lake Worth



Lagoon for seagrass presence and bed composition/cover. A strong negative correlation between muck and seagrass abundance has been documented at the permanent transects, highlighting the importance of PBERM's sediment management projects in seagrass habitat restoration in the lagoon.

Assist with Implementing Responsibilities to Best Protect the Environment. Developing Strategies To Assist Advocacy Groups With Measures To Take That Can Balance Coastal Protection Projects With Nearby Environmental Resources. The State and Federal resource protection agencies have required that the Town implement shorebird monitoring programs during and after project construction to determine whether shorebird use of restored shorelines is affected by the project. The Coastal Eco-Group team of professionals are experienced in the development, performance, and reporting of shorebird monitoring as required by the agencies and are working on several projects which investigate the foraging value of softbottom habitats for wintering piping plovers

Prepare Construction Cost Estimates for Artificial Reef Construction and Other Mitigation Strategies and Assist in Bidding Processes, Including Pre-Construction Conferences. Development of the construction cost estimates, and as needed, plans and specifications necessary to construct artificial reefs for the Town will be accomplished by members of the Coastal Eco-Group team who have specific and relevant experience. In order to minimize costs to the Town, and in recognition of your previous artificial reef construction activities, the use of previously developed bidding documents, consistent with Town procedures, may be used as the basis for development of the appropriate documents. Coastal Eco-Group will support the Town throughout the bidding process with construction management services, pre-construction conferences, and other requisite services deemed necessary and appropriate by Town staff.

Participation in Shore Protection Board Public Meetings as Deemed Necessary By Staff or Board Members. The Coastal Eco-Group team is prepared to continue our support of Town staff through our participation in Public Meetings for the Shore Protection Board, Town Council, or other advisory group within the Town. We fully expect that as the Town's consultant for Marine Assessment and Monitoring services, we will be asked to present the findings of our work to the Town. We welcome the opportunity to participate in these meetings as a way of publically demonstrating the Town's proactive approach to environmental monitoring.

We will prepare meeting exhibits and other project documentation as needed to achieve the Town's goals for each specific event. Meeting attendance by specific team members will be defined by Town or agency staff, which will dictate agenda items and topics for consideration.

Conduct Technical Peer Reviews. The Coastal Eco-Group team has extensive experience in conducting technical peer review. Ms. Miller, Principal of CEG, is currently the third party technical reviews for the FDEP Nearshore Hardbottom Mitigation Study. The coral researchers at Nova Southeastern University Oceanographic Center commonly perform technical peer reviews as part of their routine activities and will assist Coastal Eco-Group with any assignments requiring a rigorous academic review.

Assist in Developing a Public Education Program and Participating In Educating the Public Regarding the Coastal Environment. Researchers at Nova Southeastern University have been actively involved in public outreach activities for the Southeast Florida Coral Reef Initiative (SEFCRI) in Palm Beach County. Ms. Miller and Dr. Gilliam frequently give presentations at local dive group meetings about the importance of coral reef habitats in southeast Florida and



participated in a series of public workshops to educate stakeholders on Florida's coral reefs. The balance and connectivity between valuable beach habitats for endangered species along the Town's shoreline and marine habitats in the Town's offshore waters is crucial to the protection of both ecosystems. Furthermore, the water quality of Lake Worth Lagoon affects the health of the nearshore and outer reef habitats in the Town. Our team would work to develop the public's understanding of this connectivity and Town's objective to protect all coastal habitats.

Other Related Marine Resource Assessment And Monitoring Activities. The Coastal Eco-Group team is comprised of professionals representing expert knowledge and experience with marine resource assessment and monitoring tasks. What this team also offers is a comprehensive suite of capabilities and expertise that will allow us to work closely with the Town on issues that are outside the normal range of marine resource assessment and monitoring tasks. Our team has unparalleled experience in water resources, stormwater, terrestrial and freshwater ecosystem management, recreational facilities, and municipal service needs. The Coastal Eco-Group team's extensive experience in the environmenta and physical fields allow us to provide the Town with a wide range of alternative solutions that are based on traditional and proven technologies, while evaluating appropriate new and innovative ideas and techniques that are being developed nationally and internationally in the field of coastal zone management, shore protection, resource protection and municipal services.

Our team is available to contribute our expertise to the Town as needed to address issues outside the scope of marine resource assessment and monitoring services requested in this solicitation. Challenges identified by others such as stormwater and sanitary sewer discharges to surface and oceanic waters, facility design and renovation, coastal construction control line permitting for dune restoration, beachfront facilities (lifeguard stations, boardwalks, and dune crossovers) estuarine habitats (seagrass and mangrove communities) may be effectively and efficiently processed or expanded into an interdepartmental manner through Coastal Eco-Group's overall marine resource assessment and monitoring contract. After selection as Town of Palm Beach's new Marine Resource Assessment and Monitoring Consultant, we welcome the opportunity to provide Town representatives with a full description of our capabilities and experience as it relates to the needs of the Town.

The Coastal Eco-Group team members as identified herein will work in close coordination to clearly and concisely describe the environmental resources associated with project footprints and areas of potential effect, identify these resources, and address concerns in a comprehensive manner for the resource protection agency personnel responsible for reviewing the project. The Town of Palm Beach has experienced a higher level of agency review and comments than that experienced in areas without the presence of significant marine resources. Through this contract Coastal Eco-Group will serve as an extension of Town staff and will be able to provide 3rd party review and oversight of critical environmental and resource management issues. Although the Town of Palm Beach's goal for the project is avoidance of environmental impacts; minimization and mitigation efforts may have to be undertaken to provide a project design with acceptable performance potential. Close coordination with Town staff, the Town's selected coastal engineering consultant(s), and agency representatives will be required to assure minimal delays in project review and comment.



Coastal Eco-Group Inc. is an environmental consulting firm based in Deerfield Beach, Broward County, FL, and is certified by the State of Florida as a Women Owned Business. Coastal Eco-Group (CEG) was established in 2005 and represents over 75 years of professional experience in National Environmental Policy Act assessments and document preparation; project management; environmental planning; marine ecological surveys, including coral reef, hardbottom and seagrass mapping, monitoring, and impact analysis; coral transplantation and environmental permitting. Our core staff of four senior marine scientists and four marine staff scientists are highly skilled in marine resource assessment with specialized experience in regulatory project permit review, post-project hardbottom monitoring, and hardbottom mitigation development for shore protection projects and navigation improvement projects throughout Florida.

All CEG biologists have M.S. degrees and have more than four years of experience at CEG. All scientific staff have been approved by the FDEP to conduct permit-required hardbottom and benthic community monitoring in accordance with FDEP Standard Operation Procedures for Nearshore Hardbottom Monitoring. CEG senior scientists are working with the state and federal agencies on projects to develop innovative and cost effective alternative mitigation strategies for hardbottom community and seagrass impacts and implement adaptive management techniques to biological monitoring protocol. Our team of senior scientists is highly respected by the state and federal regulatory and resource protection agencies and have a reputation of providing accurate evaluations of marine habitat conditions, project-related impacts, and appropriate mitigation strategies to offset losses in habitat functions.



Experience/Ability of Personnel





Marine Resource Assessment & Monitoring Services Management's Credentials

Coastal Eco-Group Inc. (CEG) has assembled the same strong project team that has served the Town since 2014. CEG will serve as the prime consultant firm and will be supported by our subconsultants, Nova Southeastern University and Tetra Tech, Inc. Our proposed management team includes the following staff that have worked together on Town project for over a decade:



Cheryl Miller, President, Principal Scientist and Project Manager Ms. Cheryl Miller, CEG Principal, is an expert in nearshore benthic resources, including nearshore hardbottom habitats, offshore reef communities, and submerged aquatic vegetation. Cheryl has worked on Town projects since 1999 and has extensive knowledge of the Town's coastal resources from her work in both the private and public sectors. Ms. Miller was directly involved in the planning and scoping meetings for the BMA and has presented annual updates at Town public meetings since 2014. From 2005 to 2010, Ms. Miller provided technical expertise and environmental permitting support to the FDEP Bureau of Beaches and Coastal Systems for projects involving impacts to seagrass and hardbottom habitats and recommendations for development and implementation of hardbottom monitoring and mitigation programs. Cheryl will continue to act as Lead Project Manager on this project.



Angela Delaney, Senior Marine Scientist and Field Supervisor

Ms. Angela Delaney is the Field Operations Supervisor for CEG; she has more than 16 years of professional experience in the environmental consulting field and has worked for the Town for over 15 years. Ms. Delaney is proficient in mapping and monitoring of benthic habitats, and her professional consulting experience includes environmental permitting support for beach nourishment projects and coordination with state and federal regulatory and resource protection agencies. Ms. Delaney has managed the Town's extensive Microsoft Access database of BMA monitoring data since 2014.





Brian Walker, Ph.D. and David Gilliam, Ph.D.

Dr. Brian Walker is a Research Scientist in GIS and Spatial Ecology and Dr. David Gilliam is an Assistant Professor in Coral Reef Ecology with emphasis on Restoration, Assessment, and Monitoring at Halmos College of Natural Sciences and Oceanography at Nova Southeastern University. Dr. Walker was Principal Investigator for development of the 2014 Baseline Benthic Habitat Map for the BMA and will continue to provide oversight of hardbottom interpretation from aerial photography for annual BMA hardbottom mapping





Marine Resource Assessment & Monitoring Services Management's Credentials

requirements. Dr. Gilliam serves as Principal Investigator for the Southeast Florida Coral Reef Monitoring Program (SECRMP) and has managed monitoring of the offshore hardbottom stations in the BMA pursuant to the SECRMP monitoring protocol.



Mr. Robert Baron, Senior Marine Scientist, Tetra-Tech, Inc. Mr. Baron is a Project Manager and Marine Scientist with direct experience working on Town of Palm Beach projects since 2002. Robert manages large scale coastal projects including benthic habitat characterizations of hardbottom/reef/seagrass communities, habitat remediation, post-hurricane impact assessments, and artificial reef habitat enhancement projects. As an experienced scientific diver, Robert is Tetra Tech's Center for Coastal Services American Academy of Underwater Sciences Diving Safety Officer and is proficient in coral reef, natural hardbottom and artificial reef benthic community monitoring and assessments; coral harvest and transplanting; and Caribbean coral reef fish population censusing.





Marine Resource Assessment & Monitoring Services Town of Palm Beach Related/Relevant Projects





Palm Beach Island Beach Management Agreement –Nearshore Hardbottom Benthic Habitat Mapping and Annual Monitoring Services, Town of Palm Beach, Florida



In 2012, the Florida Department of Environmental Protection initiated a pilot project for a regional approach to permitting beach nourishment and inlet management in the Town of Palm Beach. This Beach Management Agreement (BMA) includes about 15.7 miles of shoreline from Lake Worth Inlet to South Lake Worth Inlet. Coastal Eco-Group Inc. (CEG) serves as the lead environmental services consultant to the Town of Palm Beach, providing regulatory agency liaison and public outreach services for the BMA, ecological monitoring and impact assessments,

benthic habitat map development and GIS

services, UMAM assessments and hardbottom mitigation development, and annual monitoring data analyses and reporting required by the BMA.

The BMA involves a comprehensive, cell-wide approach to monitoring the effects of beach nourishment projects and determining natural variability in hardbottom exposure/functions within the cell to distinguish project-related effects from natural variability. During the summer of 2014, the CEG team created a baseline benthic habitat map for the BMA using surveys of hardbottom communities within the 2015 Mid-Town and Reaches 7 and 8 beach and dune nourishment project areas for comparison to permanent monitoring stations/transects located outside of the influence of these projects. In conjunction with our sub-consultants, Tetra Tech Inc. and Nova Southeastern University, the July and November 2014 aerial imagery was interpreted and digitized in ArcGIS. Map creation followed standards used by CEG and Palm



Beach County for historic evaluation of the extent and frequency of nearshore hardbottom exposure. The CEG scientific team visited 115 sites in September 2014 to characterize hardbottom habitats, mapped the entire extent of nearshore hardbottom in the BMA cell from Palm Beach Inlet to Boynton Inlet, and installed and conducted the pre-construction survey of the BMA monitoring and Mid-Town regulatory transects.



The 2014 Benthic Habitat Map was used to develop the locations for the eight remaining permanent monitoring transects outside of the influence of beach nourishment projects. These transects were installed in June 2015 along with the two offshore monitoring stations in the Mid-Town project area. The Year 1 survey of the permanent transects and stations, nearshore hardbottom edge mapping survey, and digitization of the May 2015 aerial imagery was completed in the Fall 2015. The Year 2 survey and hardbottom map from February 2016 aerial imagery was completed in December 2016. The Year 3 survey was completed in December 2017, and the 2017 hardbottom habitat map was

developed from digitization of July 2017 aerial photography (Town of Palm Beach limits) and January 2017 Palm Beach County aerial imagery (Palm Beach County shoreline from R-138 south to Boynton Inlet). The Year 4 BMA survey, completed in January 2019, also serves as the Year 3 post-construction monitoring survey for the BMA regulatory monitoring requirements for the 2015 Mid-Town Beach Nourishment Project. The 2018 hardbottom distribution map was prepared from digitization of County-wide aerial photography obtained in July 2018. The Year 4 2019 annual report and hardbottom map are currently being finalized with delineation of hardbottom exposure in January 2020 aerial photography. The results of annual monitoring surveys have been presented at public meetings in coordination with FDEP staff.



Coral Nursery Mitigation Program, Town of Palm Beach, FL



The 2003 Mid Town Beach Nourishment Project involved placement of approximately 1.3 million cubic yards of sand along 2.1 miles of shoreline in the Town of Palm Beach, Palm Beach County, FL. In 2006, the project fill area was re-nourished with placement of approximately 900,000 cubic yards of sand to restore damage from Hurricanes Frances and Jeanne in 2004.

At the request of the Florida Department of Environmental Protection, Coastal Eco-Group prepared a cumulative impact assessment for the 2003 and 2006 nourishment projects on behalf of the Town of Palm Beach. In-situ benthic point-quadrat data, sediment monitoring data, digital video transect records, and annual aerial imagery were reviewed to evaluate short term and long term effects of sand cover on benthic communities in comparison to the January 2003 baseline survey. Using the results of the cumulative impact assessment, CEG scientists worked closely with the Florida Department of Environmental

Protection to apply the State's Uniform Mitigation Assessment Method in estimating the functional losses of hardbottom habitat. Following the impact evaluation, CEG worked closely with the state and agencies to establish adaptive management and monitoring protocols which have resulted in more robust ecological data and cost-effective and ecologically appropriate monitoring and mitigation strategies.

CEG directed an innovative approach to compensatory hardbottom mitigation using coral nurseries and coral relocation to offset temporary losses in nearshore hardbottom habitat functions. Four mitigation activities were developed: 1) creation of 1.5 acres of artificial reef in the nearshore area (less than 20 ft. water depth); 2) 1.5 acres of coral nursery artificial reef in the intermediate/offshore area: 3) salvage and reattachment of 5,000 corals of opportunity at the coral nursery sites over a ten-year period (average of 500 corals/year); and 4) relocation of corals from the nursery to natural hardbottom to increase recruitment potential.





During the summer of 2013, over 500 orphan corals were transplanted from the Port of Palm Beach Slip 3 to the Town's 0.8-acre mitigation artificial reef. Coral nursery success is being evaluated through evaluation of long term survivorship/expansion and recruitment. Histological techniques are being used to evaluate the fecundity of transplanted corals. In 2019, over 600 orphan corals from the Port of Palm Beach Berth 1 were transplanted to the 0.8-acre mitigation artificial reef in fulfillment of mitigation requirements. Additionally, more than 50 urchins were relocated from Berth 1 to the mitigation reef nursey in conjunction with the coral relocation to assist with

removal of macroalgal overgrowth and create substrate conditions conducive to coral recruitment. Following construction of the new coral nursery artificial reef habitat, the Town will be able to harvest/salvage stony corals and octocorals of opportunity from deeper waters following storm events.





Port of Palm Beach Slip 3 Orphan Coral Relocation Project –Port of Palm Beach, FL

The Port of Palm Beach Slip 3 reconstruction project consisted of bulkhead and steel sheet pile seawall replacement around the slip perimeter, along the Berth 17 seawall located southeast of Slip 3, and along the east-facing seawall on the north side of the slip. The slip was also expanded by landward relocation of the existing bulkhead wall.

The USACE project permit required relocation of stony corals greater than 10 cm in diameter for impact avoidance. Through coordination with the regulatory and resource protection agencies (FWC and NMFS), CEG obtained authorization for the harvest of orphan corals from the slip walls (all corals less than 10 cm in diameter) for use in the coral nursery mitigation program for the



Town of Palm Beach. Over 500 orphan corals were transplanted from Slip 3 to the offshore coral nursery from May through August 2013.

CEG scientific divers harvested corals from the slip wall using a hammer and chisel. All dive activities were coordinated closely with Port staff according to accessibility to the site and tidal restrictions; visibility and current only allowed for coral harvest during the incoming tide. Orphan corals were mainly small *Oculina* spp. and thin, encrusting *Madracis pharensis*, but six species were represented. Both small (5-10 cm) and large (>10 cm) colonies were harvested in addition to encrusting growth forms which fragmented during harvest. Corals were cached overnight in weighted bins until transplant at the Town's 0.8-acre coral nursery mitigation artificial reef located offshore of the Town of Palm Beach.



Due to fragmentation of encrusting colonies, a total of 755 corals/fragments were attached at the coral nursery. Coral colonies and fragments were reattached to the limestone boulders at the mitigation reef using All Fix epoxy putty. Species were grouped together in clusters, and a total of 28 transplant modules were established, each consisting of a maximum of three boulders. Maximum diameter, percent mortality, and overall coral health were recorded as part of the FWC Special Activity License monitoring requirement. Tissue samples were also collected from the harvested corals to determine reproductive status at the time of collection using histological methods. This monitoring is more cost effective than

annual field surveys in determining long-term mitigation success and contribution to the larval supply.

The CEG Team conducted the one-year post-transplantation monitoring in November/December 2014, the two-year monitoring in June 2016, and the three-year monitoring in October 2017. During the one-year survey, survival ranged from 67% to 100% depending on species. Two local government agencies, the Town of Palm Beach and Port of Palm Beach, benefitted from cost-effective mitigation and monitoring by combining the Port's monitoring requirements with the Town's coral nursery mitigation program, avoiding long-term survivorship monitoring costs and reducing field survey requirements through the use of innovative low-cost monitoring techniques to demonstrate transplantation success.





Port of Palm Beach Berth 17 Project- Environmental Permitting Support, Benthic Surveys, and Mitigation Plan Development, Palm Beach County, FL



Coastal Eco-Group provided environmental permitting services to the prime consultant, AECOM, Inc. for the Port of Palm Beach Berth 17 Project. The Berth 17 Project involved construction of a new slip from upland excavation and deepening of submerged lands in the existing southeast marginal wharf; new breasting dolphins; a new catwalk connecting the breasting dolphins; a toe berm, and a new roll on/roll-off ramp.

CEG conducted benthic and fish surveys of the project area in the spring of 2014. A detailed benthic habitat map was produced in ArcGIS 10.1 with acreage calculations of each habitat type. The benthic habitat survey and map

provided the biological information required to evaluate potential project-related effects on benthic resources and determine mitigation requirements pursuant to the FDEP UMAM mitigation rule. CEG also completed an Essential Fish Habitat (EFH) assessment in compliance with the Magnuson-Stevens Fishery Conservation and Management Act.

CEG assisted with environmental resource permit application development and Section 7 consultation under the Endangered Species Act. Section 7 consultation services include preparation of the Section 7 checklist for species and critical habitat under the purview of the National Marine Fisheries Service and the Manatee Biological Evaluation for the U.S. Fish and Wildlife Service. Impact avoidance was demonstrated through preparation of an avoidance and minimization report, and a hardbottom mitigation plan for impacts to natural and artificial hardbottom patches/rubble was developed based on the UMAM calculations. Based on the depths of unvegetated softbottom and absence of seagrass during several seagrass surveys, the dredge area was not considered potential seagrass habitat. Placement of the rip-rap to stabilize the slope was considered replacement habitat for impacted hardbottom in the mitigation assessment.

CEG prepared the stony coral relocation plan and relocated stony corals greater than 5 cm from the hardbottom and seawall at Berth 17 to the Town of Palm Beach mitigation artificial reef offshore of Palm Beach. Coral relocation was conducted in July 2016. The baseline survey of the transplants was conducted in September





2016, and annual surveys for transplant survival were conducted through 2019.





Rybovich Riviera Beach and West Palm Beach Marina Expansion Projects Palm Beach County, FL



The Rybovich Riviera Beach Marine Facility is a 57-slip commercial marina containing 7.7 acres of uplands adjacent to the Intracoastal Waterway just north of Palm Beach Inlet. The existing dock configuration supports vessels up to 125 feet in length. The West Palm Beach Rybovich Marine Facility is a 59-slip commercial marina containing 11.2 acres of uplands adjacent to the Intracoastal Waterway. In May 2012, Coastal Eco-Group, serving as the environmental consultant to Rybovich, submitted an application for an Environmental Resource Permit for the construction of a vessel lift, access channel, and dock reconfiguration at the Riviera Beach Marine Facility. This original project design was projected to impact 7.88 acres of seagrass habitat.

In coordination with the resource protection and regulatory agencies, the project was redesigned to avoid and minimize impacts to seagrass habitat to the greatest extent practicable while still meeting the objectives for the facility. Rybovich made several operational revisions to significantly reduce the overall dredge footprint and design depth. The permitted project modifies the two existing marinas, Riviera Beach and West Palm Beach, to work in conjunction with one another to provide services and repairs to mega yachts. The vessels will check-in at the West Palm Beach Marina where they will be prepared for hauling out of the water. Once ready, the vessel will

be towed approximately 3 miles north to the Riviera Beach Marina's facility haul-out slip. Upon completion of work at the Riviera Beach Marina, the vessel will be placed back into the water and returned to West Palm Beach for dockage until departure. The revised project design reduced seagrass impacts from 7.88 acres to 4.46 acres.

Coastal Eco-Group was the agent responsible for obtaining state and federal permits for the marine facility project at Riviera Beach and expansion of the Rybovich Marina at West Palm Beach. Services included NPDES permitting and compliance; ERP permit application development, seagrass mapping surveys of the impact and mitigation areas, responding to agency RAIs and agency coordination during permit application review, demonstration of avoidance/ minimization of impacts to submerged resources, ESA Section 7 consultation with NMFS and USFWS, UMAM mitigation and cumulative seagrass impact evaluation, and development and agency approval of a seagrass mitigation plan for the cumulative impacts resulting from both



projects. Federal agency approval of the combined mitigation plan for both projects was received in September 2014. Final permits for the projects were issued by the FDEP in 2015 and 2017 and by the U.S. Army Corps of Engineers in 2016 and 2017. Coastal Eco-Group has continued to provide environmental permitting services to obtain permit modifications at both facilities, including authorization of the beneficial use of dredge spoil material from the West Palm Beach facility in Palm Beach County's Tarpon Cove Restoration Project in 2018. The USACE permit modification to authorize placement of dredged material into the Tarpon Cove dredge hole was received within 30 days of our request to modify the permit.



Town of Palm Beach Municipal Docks Mitigation Artificial Reef - Environmental Permitting, EFH & Mitigation Plan Development, and Benthic Surveys



Coastal Eco-Group provided environmental permitting services for the Town of Palm Beach Municipal Docks Project during the summer of 2019. High-relief rock formations adjacent to the Peruvian Dock were identified by National Marine Fisheries Service (NMFS) representatives during review of the Town's permit application for dock replacement/re-configuration. These rock ledges provided Essential Fish Habitat (EFH) functions for managed fish species. Coastal Eco-Group staff developed the EFH Assessment and UMAM assessment/Hardbottom Mitigation Plan in close coordination with NMFS staff and expeditiously secured State and Federal permits for the mitigation artificial reef to meet grant funding deadlines for the project. Coastal Eco-Group also developed the alternatives assessment for the Municipal Docks Federal permit application.

CEG marine scientists mapped and characterized hardbottom exposure and fish populations in the dredging impact area. The

amount of EFH to be impacted was estimated using a series of line-intercept transects to calculate percent bottom cover occupied by high-relief hardbottom. A detailed benthic habitat map was produced in ArcGIS 10.7 with acreage calculations by habitat type. The survey results were used to calculate the

functional loss of impacted hardbottom and replacement habitat value of the mitigation artificial reef. The total area of dredging impact was 0.1 acres of high-relief hardbottom ledges; impacts to this hardbottom required 0.12 acre of mitigation artificial reef. Coastal Eco-Group scientists identified a suitable artificial reef site approximately 75 m to the south of the southern dredge limits of the Town Docks on the east side of the Lake Worth Lagoon.

The mitigation artificial reef was constructed in the summer of 2020. CEG conducted a time-zero survey and 30-day post deployment fish census. The surveys included perimeter mapping of the constructed artificial reef, line-intercept transects to determine percent cover of sand and boulder relief, and a census of fish populations on the artificial reef. The 30-day post deployment survey documented use of the mitigation artificial reef by managed fish species.









2010 and 2013/14 and 2016/17 North, Central and South Boca Raton Beach Nourishment Projects: Environmental Permitting, NEPA Compliance, Hardbottom Impact Assessment and Permit Compliance

Coastal Eco-Group Inc. (CEG) has served as the environmental subconsultant to the City of Boca Raton under the prime coastal engineering contract since 2008. Environmental services in support of the City's three nourishment projects (North Boca Raton Federal Project, Central Boca Raton Nourishment Project, and South Boca Raton Nourishment Project) include NEPA documentation and compliance, listed species surveys and critical habitat effects analyses for compliance with the Endangered Species Act, environmental permitting support including monitoring plan development and impact evaluation, biological monitoring, and permit compliance. The North Boca Raton shoreline was nourished in 2010 and



2014; the South Boca Raton project area was nourished in 2010 and 2013; and the Central Boca Raton Beach Nourishment Project started in the winter of 2016 and was completed in winter 2017. The South Boca Raton Beach Nourishment project is located immediately south of Boca Raton Inlet, and the beach fill area is proximal to extensive nearshore hardbottom.





The offshore borrow sites for the North and Central Boca Raton projects were located less than 1,000 feet from adjacent outer linear reef and inshore patch reefs. In order to maximize the volume of beach-compatible sand available for dredging, Coastal Eco-Group scientists developed a cost-effective, stringent during-construction monitoring protocol to authorize a minimum buffer distance of 400 ft. to adjacent reef habitats. Sedimentation monitoring was required twice/weekly when the dredge was working within 1,000 ft. of reef habitats, and these surveys were conducted while the dredge was operating less than 600 ft. from reefs. Multiple pre-construction surveys were used as a reference for natural variability. Based on the results of the 2014 North Boca Raton project monitoring, the sediment accumulation trigger and monitoring protocol were modified for the 2016/17 Central Boca Raton project; fate-tracking organisms to detect siltation at the organism level were added to evaluate siltation stress on the reef community.

There were only two occurrences of sediment depth exceeding the threshold trigger in 2014 when the dredge was less than 600 ft. from the reefs; these exceedances were minimal with a return to the

reference condition within 48 hours. Best management practices (BMPs) required the dredge to move to a distance of greater than 600 ft. from the reefs to continue dredging until sediment depth measurements were in compliance. Relocation of the dredge to distances of more than 1,000 ft from adjacent patch reefs was conducted in excess of BMP requirements during the 2017 dredging event to ameliorate potential dredging-related siltation stress. The results of the sedimentation surveys for the 2016/2017 Central Boca Raton project do not indicate any significant adverse impacts to patch reefs located between 400 and 600 ft of dredging activity.



| Southeast Florida Coral Reef Evaluation and Monitoring Project | | | | | | | |
|--|--------------------------------|--|--|--|--|--|--|
| Assignment Name: | | Country: Florida USA | | | | | |
| Southeast Florida Coral Reef Ev | aluation and Monitoring Proj | ect | | | | | |
| Name of Client: | | · | | | | | |
| Florida Department of Environn | nental Protection | | | | | | |
| Start Date: May 2003 | Completion date: Current | Approx. Value of Services: US~\$1,500,000 | | | | | |
| Narrative Description of Projec | t: | | | | | | |
| Funded by the state of Florida D | epartment of | | | | | | |
| Environmental Protection (DEP) | and the US National | | | | | | |
| Oceanic and Atmospheric Admi | nistration Coral Reef | | | | | | |
| Conservation Program, the Sout | heast Florida Coral Reef | <u></u> | | | | | |
| Evaluation and Monitoring Proje | ect (SECREMP) was | | | | | | |
| established in 2003. SECREMP p | provides local, state, and | | | | | | |
| federal resource managers with | an annual coral reef | | | | | | |
| status report as well as informa | tion on temporal | | | | | | |
| changes in resource condition for | or the Southeast Florida | Maria Maria | | | | | |
| Coral Reef Ecosystem Conservat | tion Area (Martin, Palm | JAC LACADA AND | | | | | |
| Beach, Broward, and Miami-Dao | de counties). Survey | | | | | | |
| methods include photographic t | ransects to quantify | | | | | | |
| percent cover of major benthic | taxa (stony corals, | | | | | | |
| sponges, octocorals, macroalga | e, etc.) and demographic | | | | | | |
| surveys to quantify abundance, | size distribution, and | | | | | | |
| overall condition of stony corals | s, octocorals, and the | | | | | | |
| giant barrel sponges. SECREMP | uniquely facilitates | | | | | | |
| collaboration and knowledge sh | aring between a university and | d resource management agencies | | | | | |
| that benefiting coral reef ecosystems nationwide. | | | | | | | |

| PROJECT DESCRI | PTION | | NC | Halmo of Arts and DVA SOUTHEASTERN | os College d Sciences n university | NSU Florida | | |
|---|--------------------|----------------|--|--|--|-----------------------|--|--|
| TITLE AND LOCATION (City and State) | | | YEA | R COMPLET | ED | | | |
| Palm Beach Beach Island BMA February 2016 A | erial | PROFES | PROFESSIONAL SERVICES CONSTRUCTION (IF | | | (If applicable) | | |
| Photography Interpretation and Hardbottom Del | ineation | 2016 - 2017 | | N/A | N/A | | | |
| PROJECT OWNER'S INFORMATION | | | | | | | | |
| a. PROJECT OWNER | b. POINT OF CONTAG | T NAME | c. POINT OF CO | NTACT TELE | PHONE N | UMBER | | |
| Coastal Eco-Group Inc. | Cheryl Miller | (954) 591-1219 | | | | | | |
| | | | | | | | | |

Nova Southeastern University (NSU) partnered with Coastal Eco-Group, Inc. to work on the Palm Beach Island Beach Management Agreement. The basis for the BMA monitoring program is an initial characterization and classification of hardbottom communities within the study area based on digitization of exposed hardbottom in Summer/Fall 2014 aerial imagery and in situ verification of hardbottom areas and borders in the cell in order to quantitatively characterize, classify, and map hardbottom communities according to the BMA classification scheme. Remotely sensed images from 2000-2015 were used to look at the movement of sediment and how it contributes to exposure rates of near shore hardbottom habitats in Palm Beach, Florida and how these factors affect the benthic community.

GIS was used to determine areas of hardbottom with high exposure (exposed in >60% of aerial images), medium exposure (40-60%), and low exposure (<40%). Remotely sensed imagery and manual GIS interpretation were successful in determining hardbottom exposure over time. Large differences in exposed areas were seen in relatively short time periods, and beach nourishments coincided with decreases in exposure.





This study confirmed that periodic mapping was successful in identifying hardbottom burial and exposure, which fluctuate both spatially and temporally. This periodic mapping along with manual delineation did identify hardbottom burials and exposures that fluctuate between years and relate to benthic community differences. The nearshore hardbottom coral reef communities aligned with the observed exposure categories with the greater coral species richness and octocoral morphologies found at sites classified as highly exposed. Statistical analyses showed differences in communities shallower and deeper than three meters' depth. Increasing the frequency of imagery and in situ observation would further increase our comprehension of the metrics of hardbottom exposures in reference to community structure.

A new stratification was recommended for the nearshore communities based on these analyses. The proposed new Hardbottom Designation classification would be areas shallower or equal to 3 m and deeper than 3 m that have at least 60% exposure or not. This modification would change the designation to four classes: Shallow High Exposure, Shallow Low Exposure, Deep High Exposure, and Deep Low Exposure.

Major storms seemed to greatly increase the observed exposed hardbottom. Seasonal and targeted imagery collection after known mass sediment movement events will help hone the nearshore hardbottom areas affected by sediment burial and exposure.

| | FIRMS INVOLVED WITH THIS PROJECT | | | | | | | | |
|----|--|------------------------------------|--------------------------------------|--|--|--|--|--|--|
| | (1) FIRM NAME | (2) FIRM LOCATION (City and State) | (3) ROLE | | | | | | |
| a. | Nova Southeastern University Oceanographic Center | Dania Beach, FL | Partner with Coastal Eco-Group, Inc. | | | | | | |



Principal-In-Charge Cheryl Miller, President

BMA Monitoring- Nearshore Hardbottom, Benthic Habitat Assessments. Reporting

C. Miller A. Delaney R.Baron² M. Sathe D. Fisco N. Dancho K. Klug C. Bliss NEPA, Permitting, NPDES permitting, Regulatory Support & Public Outreach

C. Miller A. Delaney M. Sathe

- N. Dancho
- D. Gilliam¹
- B. Walker¹

Artificial Reef & Fish Population Assessments and Sea Turtles

> C. Miller A. Delaney M. Sathe D. Fisco C. Bliss

R. Baron²

Public Outreach/Meeting Technical Peer reviews

> C. Miller A. Delaney M. Sathe D. Gilliam¹ B. Walker¹

Estuarine analysis & study; seagrass, Lake Worth Lagoon

C. Miller A. Delaney M. Sathe D. Fisco N. Dancho K. Klug C. Bliss R.Baron²

SUBCONTRACTORS







Coral Relocation , Nursery and Monitoring C. Miller

> A. Delaney M. Sathe N. Dancho K. Klug D. Fisco C. Bliss D. Gilliam¹

Coastal Eco-Group Inc.

Hardbottom Delineation and GIS Analyses

> A. Delaney M. Sathe N. Dancho K. Klug B. Walker¹

Cheryl L. Miller, President, Principal Scientist Coastal Eco-Group, Inc. 665 SE 10th St. Suite 104 Deerfield Beach, FL 33441 Email: cmiller@coastaleco-group.com Tel: (954) 591-1219



EDUCATION

M.S., Biological Sciences, Florida Atlantic University, 2000 B.S., Marine Biology, FAU, 1996 B.A., University of Pennsylvania, 1992

YEARS OF PROFESSSIONAL

EXPERIENCE 25 YEARS WITH CURRENT FIRM 15

PROFESSIONAL AFFILIATIONS

Southeast Florida Coral Reef Initiative Team Member (SEFCRI), 2003-2020, Vice-Chair (2013-2017)

South Florida Water Management District Water Resources Advisory Commission, 2011-2013

International Coral Reef Society

American Academy of Underwater Sciences

EXPERIENCE RELEVANT TO RFQ

- Hardbottom Monitoring and Impact Assessment and Mitigation Planning
- Environmental Permit Application
 Preparation and Management
- Environmental Compliance
- NEPA Documentation & Compliance
- Coral Relocation and Transplant Success Monitoring
- GIS and Aerial Photography Interpretation of Hardbottom
- Environmental Permitting and Regulatory Agency Liaison

Ms. Miller, President and Principal Scientist, has over 25 years professional experience in environmental planning and permitting, project management, NEPA assessments and document preparation, and marine and estuarine ecological surveys and mapping. Areas of expertise are nearshore hardbottom, reef, and seagrass mapping, monitoring, impact analysis, and mitigation design in association with shore protection projects throughout Florida. Ms. Miller has served as the Principal Scientist and Project Manager for the Palm Beach Island Beach Management Agreement (BMA) Monitoring Services for the Town of Palm Beach since 2014 and has worked on Town of Palm Beach projects since 1999. Cheryl is regularly acknowledged for her proactive and innovative approach to mitigation development and impact assessment and responsiveness to client needs and works in close communication with regulatory staff to ensure agency and develop cost-effective alternative satisfaction to monitoring protocol dependent upon field conditions.

PROFESSIONAL EXPERIENCE:

• President, Coastal Eco-Group, Inc., Deerfield Beach, FL- November 2005 – present

• Senior Scientist II, PBS&J, Inc., Jacksonville, FL-October 2004 – March 2006

• Research Assistant II, Harbor Branch Oceanographic Institute, Marine Nutrient Dynamics Laboratory, Fort Pierce, FL- September 2004 – August 2005

• Environmental Specialist III, FDEP Bureau of Beaches & Coastal Systems, Tallahassee, FL, October 2002 – September 2004

• Senior Marine Biologist, Coastal Planning & Engineering, Inc., Boca Raton, FL, April 1997 – October 2002

RELEVANT CEG PROJECTS:

Town of Palm Beach Municipal Docks, 2019- present

Project Manager responsible for obtaining State and Federal environmental resource permits for the mitigation artificial reef for hardbottom impacts associated with the Town of Palm Beach Municipal Docks. Coordinated with NMFS staff to characterize existing hardbottom functions for managed fish species; completed an EFH assessment and UMAM analysis to develop cost-effective and ecological appropriate mitigation; and obtained State and Federal permits for artificial reef construction on a very short timeline to enable to Town to meet grant funding deadlines. Developed the Biological Monitoring **Town of Palm Beach Biological Services Consultant, Palm Beach County, FL, 2009- present.** Deputy Project Manager and Lead Scientist for biological monitoring, data analyses, impact evaluation, and permit-required reporting for nearshore hardbottom habitats for the 2010 Mid-Town Beach Nourishment Project, Phipps Ocean Park Beach and Dune Restoration Project, and Palm Beach Harbor Dredging Program Mitigation Reef Monitoring and Coral Transplantation Pilot Project (2009-2013). Project Manager and Lead Scientist for the 2015 Mid-Town Beach Nourishment Project; Palm Beach Island Beach Management Agreement and Biological Monitoring Program; and Primary Author/Developer of the Town's mitigation program for nearshore hardbottom impacts from beach nourishment.

Port of Palm Beach Slip 3/Berth 1 Orphan Coral Relocation Project, Palm Beach County, FL, 2013-2020.

Project Manager and Lead Scientist for regulatory agency coordination and coral relocation for impact avoidance. USACE project permit required relocation of stony corals greater than 10 cm in diameter for impact avoidance. Through co-ordination with regulatory agencies, Ms. Miller secured the use of orphan corals from the Slip 3 walls (all corals less than 10 cm) for use in the coral nursery mitigation program for the Town of Palm Beach. Over 500 orphan corals were transplanted from to the offshore coral nursery in 2013, and over 600 corals were relocated from Berth 1 in 2019. Cost effective monitoring was developed by combining the Port's monitoring requirement with the Town's coral nursery program, avoiding long-term survivorship monitoring costs to the Port and reducing field survey requirements using innovative low-costs monitoring techniques to demonstrate transplantation success.

Lake Worth Lagoon Fixed Transect Seagrass Monitoring Program: Annual Monitoring Surveys, 2011-2019 and 2013 and 2018 Lake Worth Lagoon Seagrass Mapping Project, Palm Beach County, FL.

Principal Scientist and Project Manager for annual seagrass surveys of permanent fixed transects in the Lake Worth Lagoon for Palm Beach County Department of Environmental Resources Management. Primary Author of annual cumulative reports which examine long-term trends in seagrass distribution. Provided recommendations for new field protocols to evaluate sediment characteristics, habitat suitability, and potential patch migration of *Halophila* spp. Principal Scientist and Project Manager for the 2013 and 2018 Seagrass Mapping Projects.

2010, 2013/14 and 20217 North and South Boca Raton Beach Nourishment Projects, and 2016/17 North Boca Raton Segment II Project, City of Boca Raton, Palm Beach County, FL, 2010- present.

Project Manager and Principal Scientist in charge of biological assessments, NEPA documentation, endangered species surveys and critical habitat assessments, hardbottom data analyses and impact analysis, and reporting and permit compliance for the 2010, 2013/2014, and 2016/17 beach nourishment projects. Provided regulatory and resource protection agency coordination services and developed a cost effective and ecologically appropriate sedimentation monitoring plan to allow authorization of a 400-ft buffer distance to adjacent reef habitats during dredging of offshore borrow sites; Responsible for technical reports in compliance with FDEP and USACE permit requirements.

Port Everglades Sand Bypass Project, Broward County, FL, 2006 – present.

Project Manager/Principal Author of the 2008 and 2015 NEPA regulatory Environmental Assessments and Biological Assessments for Section 7 ESA compliance for the proposed sand bypass project at Port Everglades. The sand bypass project was re-designed in 2014 to avoid confined blasting techniques. Primary Author of the UMAM hardbottom mitigation evaluation and innovative mitigation plan for impacts to nearshore hardbottom rubble-dominated communities at the spoil shoal. Responsibilities include environmental permitting support and coordination with State and Federal regulatory and resource protection agencies

Ms. Angela Delaney

Senior Scientist, Dive Operations Supervisor

Coastal Eco-Group, Inc.

EDUCATION

M.S., Marine Sciences, Nova Southeastern University, 2006 B.S., Marine Science, Coastal Carolina University, 2002

YEARS OF EXPERIENCE Total: 17 yrs

OFFICE LOCATION Deerfield Beach, FL

PROFESSIONAL AFFILIATIONS

International Coral Reef Society

National Association of Environmental Professionals

American Academy of Underwater Sciences

EXPERIENCE RELEVANT TO RFP

- Biological Surveys- Seagrass, Mangrove, Coral Reef Habitats. Artificial Reef Habitat
- Impact Assessment
- Environmental Permitting and Compliance
- NEPA Documentation & Compliance
- Benthic Habitat Mapping and Characterization
- Mitigation Assessment UMAM
- Mitigation Development- Coral and Seagrass Habitats
- GIS Data Analysis and Mapping
- Database Management
- Coral Transplantation and Restoration

Ms. Angela Delaney has more than 16 years of professional experience in environmental planning and permitting, project management, NEPA compliance and documentation, benthic habitat characterization and mapping, and marine ecological surveys, including coral reef, nearshore hardbottom, artificial reef, and seagrass. Prior to joining Coastal Eco-Group in 2008, Ms. Delaney managed biological surveys and impact assessments for shoreline protection and navigation dredging projects at a coastal engineering firm in southeast Florida.

Previous relevant experience in NEPA compliance and documentation and direct experience with Town of Palm Beach include NEPA Environmental Assessments for numerous beach nourishment projects, monitoring transect installation, in-water sea turtle monitoring program, hardbottom sedimentation analysis, biological community monitoring, report development and permit compliance, and benthic habitat characterization and impact analysis for the Palm Beach Island Beach Management Agreement pilot program.

Relevant Project Experience

• Senior Scientist and Field Supervisor for the biological monitoring (quadrat assessments, digital video transects, and sediment surveys), data management, statistical data analyses, GIS development, impact evaluation, and permit-required reporting for nearshore hardbottom habitats of the Beach Management Agreement (BMA) Cell-Wide Program. Palm Beach Island Beach Management Agreement, Palm Beach County, FL (2014-present)

• Senior Scientist and Field Supervisor for the biological monitoring (quadrat assessments, digital video transects, and sediment surveys), data management, statistical data analyses, GIS development, impact evaluation, and permit-required reporting for nearshore hardbottom habitats within the Mid-Town beach

nourishment project area. Mid-Town Beach Nourishment Project, Palm Beach County, FL (2014-present)

• Senior Scientist for the biological monitoring (quadrat assessments, digital video transects, and sediment surveys), data management, statistical data analyses, GIS development, impact evaluation, and permit-required reporting for nearshore hardbottom habitats. 2016 Phipps Ocean Park Beach Project, Palm Beach County, FL (2016-present)

• Senior Scientist for regulatory agency coordination and coral relocation for impact avoidance. USACE project permit required relocation of stony corals greater than 10 cm in diameter for impact avoidance. Over 500 orphan corals were transplanted from Slip to the offshore coral nursery in 2013. Cost effective monitoring was developed by combining the Port's monitoring requirement with the Town's coral nursery program. Long-term transplant survival surveys were conducted in 2016 and 2017. Port of Palm Beach Slip 3/Berth17/Town of Palm Beach Mid-Town Beach Nourishment Project Orphan Coral Relocation Project, Palm Beach County, FL (2013-2019)

• Senior Scientist for regulatory agency coordination and coral relocation for impact avoidance. USACE project permit required relocation of stony corals greater than 10 cm in diameter for impact avoidance. Over 600 orphan corals were transplanted from the Berth wall to the offshore coral nursery in 2019. Immediate transplant survival surveys were conducted in 2019. Port of Palm Beach Berth 1/Town of Palm Beach Mid-Town Beach Nourishment Project Orphan Coral Relocation Project, Palm Beach County, FL (2019-present)

Ms. Nicole Dancho Marine Scientist

Coastal Eco-Group, Inc.

EDUCATION

Dual M.S., Marine Biology and Coastal Zone Management, Nova Southeastern University, 2012

B.S., Biological Oceanography, Old Dominion University, 2009

YEARS OF EXPERIENCE

Total: 11 years

OFFICE LOCATION Deerfield Beach, FL

PROFESSIONAL AFFILIATIONS

American Academy of Underwater Sciences International Coral Reef Society IUCN Seagrass SSC

CERTIFICATIONS

- PADI: Rescue Diver, Enriched Air Nitrox Diver, Advanced Open Water Diver, Open Water Diver, Specialty Diver (National Geographic)
- SDI: CPR, First Aid, Oxygen Administration, and Automatic External Defibrillator
- Over 1,000 scientific dives logged

EXPERIENCE RELEVANT TO RFP

- Biological Monitoring of Hardbottom Habitats in Southeast Florida
- Benthic Habitat Mapping and Characterization
- Submerged Aquatic Vegetation monitoring and habitat mapping
- Impact Assessment
- Data Management, Statistical Analysis, and Reporting
- GIS and Aerial Photography
 Interpretation of Hardbottom
- Impact Assessment and Mitigation Planning
- NEPA and NMFS Documentation & Compliance

Ms. Dancho conducts biological monitoring, mapping, and characterization surveys of marine and estuarine habitats including coral reef, hardbottom, and submerged aquatic vegetation. She has over 11 years of professional experience as a marine scientist, with 7 years of experience as an environmental consultant. Her areas of expertise include impact evaluation, permitting and mitigation planning, benthic habitat assessments and identification of Atlantic scleractinian corals, octocorals, seagrasses, and other functional groups. Ms. Dancho co-authored numerous NEPA and NMFS documents for NMFS Section 7 consultation, as well as numerous technical monitoring reports and utilizes statistical and GIS methods in the evaluation of impacts and mitigation for marine environments.

Prior to joining Coastal Eco-Group in 2013, Ms. Dancho was the operations and field manager at an environmental consulting firm in St. Petersburg, Florida, overseeing the biological and benthic habitat monitoring and impact assessments for seagrass restoration projects throughout the entire state of Florida. During her time at Nova Southeastern University, she served as a research associate for U.S. Geological Survey participating in on-going research for the South Florida Fish and Invertebrate Assessment Network within the Comprehensive Everglades Restoration Plan.

Relevant Project Experience

• Scientist for the biological monitoring (quadrat assessments, digital video transects, and sediment surveys), data management, statistical data analyses, GIS development, impact evaluation, and reporting for nearshore hardbottom habitats for the Palm Beach Island Beach Management Agreement, Palm Beach County, FL (2014-present)

• Scientist for the biological monitoring (quadrat assessments, digital video transects, and sediment surveys), data management, statistical data analyses, GIS development, impact evaluation, and permit-required reporting for nearshore hardbottom habitats for the 2015 Mid-Town Beach Nourishment Project, Palm Beach County, FL (2014-present)

• Scientist for the biological monitoring (quadrat assessments, digital video transects, and sediment surveys), data management, statistical data analyses, GIS development, impact evaluation, and permit-required reporting for nearshore hardbottom habitats for the 2016 Phipps Ocean Park Beach Project, Palm Beach County, FL (2016-present)

• Scientist for the benthic monitoring for EFH hardbottom and seagrass assessments and the stony coral survey of the seawall, data management, and assistance of report preparation for the Port of Palm Beach Slip 3/Berth17/Town of Palm Beach Mid-Town Beach Nourishment Project Orphan Coral Relocation Project, Palm Beach County, FL (2014-2017)

Ms. Melissa Sathe Senior Scientist

Coastal Eco-Group, Inc.

EDUCATION

M.S., Marine Sciences, Nova Southeastern University, 2008 B.S., Ecology and Evolutionary Biology,

Tulane University, 2000 YEARS OF EXPERIENCE

Total: 16 yrs.

OFFICE LOCATION Deerfield Beach, FL

PROFESSIONAL AFFILIATIONS

Friends of Our Florida Reefs Southeast Florida Coral Reef Initiative American Academy of Underwater Sciences

EXPERIENCE RELEVANT TO RFP

- Biological Surveys- Seagrass, Mangrove, Softbottom and Coral Reef Habitats.
- Impact Assessment
- Environmental Permitting and Compliance
- NEPA Documentation & Compliance
- Benthic Habitat Mapping and Characterization
- Mitigation Development- Coral and Seagrass Habitats
- GIS Data Analysis and Mapping
- Coral Transplantation and Restoration

Melissa Sathe has more than 16 years of professional experience in project management, benthic habitat characterization and mapping, and marine ecological surveys, including coral reef, nearshore hardbottom, artificial reef, and seagrass.

Prior to joining Coastal Eco-Group in 2016, Melissa assisted in the management of biological monitoring and reef injury impact assessments for coral reefs in Southeast Florida at The Florida Department of Environmental Protection's Coral Reef Conservation Program (DEP CRCP) from 2012-2017. Prior to DEP CRCP, Melissa was the field coordinator for the offshore monitoring program at Miami-Dade County's Division of Environmental Resources Management (DERM). Offshore hardbottom monitoring at DERM included beach nourishment projects and artificial reef permitting projects. From 2004-2007, Melissa was a research assistant at Nova Southeastern University and supported project management for offshore monitoring during the Segment III beach nourishment project in Broward County, FL..

Relevant Project Experience

• Senior Scientist for biological monitoring and assessment of reef communities including digital video transects, sedimentation surveys, and benthic community quadrats of nearshore hardbottom and associated data analysis and reporting for nearshore hardbottom habitats of the Beach Management Agreement (BMA) Cell-Wide Program. Town of Palm Beach, Palm Beach Island, Beach Management Agreement (2016 -present)

• Senior Scientist responsible for biological monitoring and assessment of reef communities including digital video transects, sedimentation surveys, and benthic community quadrats of nearshore hardbottom and associated data analysis and report creation for:

• ••2016 and 2017/18 Bathtub Beach/Sailfish Point Beach

Nourishment Project, Martin County, Florida (2016 - present)

- •2017 South Boca Interim Beach Nourishment Project (2016 -present)
- 2016 Broward County Segment II Beach Nourishment Project (2017 present)

Florida Department of Environmental Protection Coral Reef Conservation Program Experience

• Manager of the DEP CRCP's reef restoration project at the Spar Orion and Clipper Lasco Grounding Sites, Broward County, FL (2015)

• Assistant manager for contractor oversight, contract management, environmental permitting review support, and budgets for all associated projects, Miami-Dade – Martin County, Florida (2012-2017)

Miami-Dade County Division of Environmental Resources Experience

• Field coordinator for Contract E beach nourishment biological monitoring and report production, Miami-Dade County, Florida (2007-2012)

• Field coordinator for artificial reef annual biological monitoring and report production, Miami-Dade County, FL (2007-2012)

• Field coordinator for artificial reef deployments and associated permit required submittals, Miami-Dade County, FL (2007-2012)

Ms. Katelyn Klug Marine Scientist

Coastal Eco-Group, Inc.

EDUCATION

M.S., Marine Biology and Coastal Zone Management, Nova Southeastern University, 2015

B.S., Environmental Geosciences, Slippery Rock University, 2011

YEARS OF EXPERIENCE

Total: 8 years

OFFICE LOCATION Deerfield Beach, FL

PROFESSIONAL AFFILIATIONS

American Academy of Underwater Sciences

CERTIFICATIONS

- PADI: Rescue Diver, Enriched Air Nitrox Diver, Advanced Open Water Diver, Open Water Diver,
- SDI: CPR, First Aid, Oxygen Administration, and Automatic External Defibrillator

EXPERIENCE RELEVANT TO RFP

- Biological Monitoring of Hardbottom and Seagrass Habitats in Southeast Florida
- Benthic Habitat Mapping and Characterization
- Submerged Aquatic Vegetation monitoring and habitat mapping
- Data Management and Reporting
- GIS Data Analysis and Aerial Photography Interpretation of Hardbottom
- Coral Transplantation and Restoration
- Impact Assessment

Ms. Klug has over 8 years of experience in biological assessments, sedimentation analyses, identification of Atlantic scleractinian corals and other functional groups, coral stress evaluations, benthic community cover analyses, and video/still photography. Her areas of expertise include utilizing ArcGIS for data analysis of impacts associated with beach nourishment projects, benthic habitat mapping, and aerial photography interpretation of hardbottom habitats.

Prior to joining Coastal Eco Group in 2016, Ms. Klug was an environmental scientist project manager at a consulting firm in Boynton Beach, Florida. During this time, she performed Phase I Environmental Site Assessments, identified sources of contamination, and created extensive reports for clients. While working at Nova Southeastern University, she served as a research assistant in the GIS and Spatial Ecology Lab.

Relevant Project Experience

• Scientist for the biological monitoring (quadrat assessments, digital video transects, and sediment surveys), data management, GIS analyses and aerial photography interpretation of hardbottom, and assistance with report preparation for nearshore hardbottom habitats for the Palm Beach Island Beach Management Agreement, Palm Beach County, FL (2016-present)

• Scientist for the biological monitoring (quadrat assessments, digital video transects, and sediment surveys), data management, GIS data analyses and aerial photography interpretation of hardbottom, and assistance with report preparation for nearshore hardbottom habitats for the 2015 Mid-Town Beach Nourishment Project, Palm Beach County, FL (2016-present)

• Scientist for the biological monitoring (quadrat assessments, digital video transects, and sediment surveys) and data management for nearshore hardbottom habitats for the 2016 Phipps Ocean Park Beach Project, Palm Beach County, FL (2016-present)

• Scientist for the mitigation artificial reef surveys (perimeter mapping, sand distribution, relief characterization, and digital video/photography), data management and analyses, and assistance with reporting for the Town of Palm Beach Municipal Docks (2019-present).

• Scientist for the seagrass monitoring (quadrat assessment, lineintercept, digital video transects, ground-truthing assessments, point water quality sampling, and benthic community core sampling), and data management for the Lake Worth Lagoon Fixed Transect Seagrass Monitoring Program, Palm Beach County, FL (2017-2020)

Ms. Dana Fisco Marine Scientist

Coastal Eco-Group, Inc.

EDUCATION

M.S., Marine Biology and Coastal Zone Management, Nova Southeastern University, 2016

B.A., Marine and Freshwater Sciences, Colgate University, 2008

YEARS OF EXPERIENCE

Total: 9 years

OFFICE LOCATION Deerfield Beach, FL

PROFESSIONAL AFFILIATIONS

American Academy of Underwater Sciences

CERTIFICATIONS

- PADI: Rescue Diver, Enriched Air Nitrox Diver, Advanced Open Water Diver, Open Water Diver,
- SDI: CPR, First Aid, Oxygen Administration, and Automatic External Defibrillator

EXPERIENCE RELEVANT TO RFP

- Fish Population Assessments/Reef Fish Visual Census Surveys
- Biological Monitoring of Hardbottom and Seagrass Habitats in Southeast Florida
- Benthic Habitat Mapping and Characterization
- Submerged Aquatic Vegetation monitoring and habitat mapping
- Data Management, Statistical Analysis, and Reporting
- GIS

Ms. Fisco has over 9 years of professional experience in fish identification and population assessments. Additional professional experience includes hardbottom mapping and characterization and submerged aquatic vegetation monitoring including benthic organism identification, benthic community cover analyses, coral stress evaluation, video/still photography, and sedimentation analyses. Her areas of expertise include identification of reef fish species, scleractinian corals, octocorals, and other sessile biotic groups, impact evaluation and mitigation reef assessments. Ms. Fisco has co-authored many technical monitoring reports and utilized statistical and GIS methods in the evaluation of impacts associated with beach nourishment projects. Prior to joining Coastal Eco Group in 2016, Ms. Fisco was a research associate in the Reef Fish Ecology Lab at Nova Southeastern University and assistant manager for the Southeast Florida Coral Reef Initiative Reef Fish Visual Census surveys.

Relevant Project Experience

• Scientist for the biological monitoring (quadrat assessments, digital video transects, and sediment surveys), data management, statistical data analyses, and assistance with report preparation for nearshore hardbottom habitats for the Palm Beach Island Beach Management Agreement, Palm Beach County, FL (2016-present)

- Scientist for the biological monitoring (quadrat assessments, digital video transects, and sediment surveys), data management, statistical data analyses, and assistance with report preparation for nearshore hardbottom habitats for the 2015 Mid-Town Beach Nourishment Project, Palm Beach County, FL (2016-present)
- Scientist for the biological monitoring (quadrat assessments, digital video transects, and sediment surveys), data management, reporting for nearshore hardbottom habitats for the 2016 Phipps Ocean Park Beach Project, Palm Beach County, FL (2016-present)
- Scientist for the mitigation artificial reef surveys (perimeter mapping, roving diver fish surveys, sand distribution, relief characterization, and digital video/photography), data management and analyses, and reporting for the Town of Palm Beach Municipal Docks (2019-present).

• Scientist for the seagrass monitoring (quadrat assessment, lineintercept, digital video transects, ground-truthing assessments, point water quality sampling, and benthic community core sampling), and data management for the Lake Worth Lagoon Fixed Transect Seagrass Monitoring Program, Palm Beach County, FL (2017-2020)

Mr. Cody Bliss Marine Scientist

Coastal Eco-Group, Inc.

EDUCATION

M.S., Marine Biology and Coastal Zone Management, Nova Southeastern University, 2014

B.S., Biology & Environmental Science, Lock Haven University, 2010.

YEARS OF EXPERIENCE

Total: 10

PROFESSIONAL AFFILIATION

American Academy of Underwater Sciences

EXPERIENCE RELEVANT TO RFP

- Coral Relocation, Restoration and Endangered Species Management
- Biological Monitoring of Hardbottom and Seagrass Habitats in Southeast Florida
- Data Management, Statistical Analysis, and Reporting
- Benthic Habitat Mapping and Characterization
- GIS and Aerial Photography Interpretation of Hardbottom

Mr. Bliss has over 10 years of professional experience in coral reef habitat characterization and population assessments, coral relocation and restoration, hardbottom mapping, and submerged aquatic vegetation monitoring including benthic organism identification, benthic community cover analyses, coral stress evaluations, video/still photography, and sedimentation analyses. His areas of expertise include identification of Caribbean coral reef communities including scleractinian corals, octocorals, sponges, and other sessile biotic groups. Mr. Bliss has worked on numerous coral restoration and relocation projects that include impact evaluation and mitigation reef assessments. Prior to joining Coastal Eco-Group in 2018, Mr. Bliss was a program manager in the Florida DEP Coral Reef Conservation Program and a research associate in the Coral Reef Restoration Assessment and Monitoring Lab at Nova Southeastern University. Mr. Bliss is also an adjunct professor for undergraduate marine science and oceanography classes at Indian River State College.

Relevant Project Experience

• Biological monitoring (BEAMR), sedimentation surveys, digital video transects, and hardbottom mapping. Town of Palm Beach BMA, Palm Beach County, FL (2018-Present)

• Biological monitoring (BEAMR), sedimentation surveys, digital video transects, and hardbottom mapping. Sarasota County, Siesta Key, FL (2018-Present)

• Biological monitoring (BEAMR), sedimentation surveys, digital video transects, and hardbottom mapping. Sarasota County, Longboat Key, FL (2018-Present)

• Nearshore hardbottom characterization, hardbottom edge mapping, sedimentation surveys and digital video transects. Sarasota County, Manasota Key, FL (2019)

• Biological monitoring (BEAMR), sedimentation surveys, digital video transects, and hardbottom mapping. Bathtub Beach/Sailfish Point Beach Nourishment Project, Martin County, FL (2018-present)

• Coral relocation and mitigation site reconnaissance for the Town of Palm Beach and Port of Palm Beach port construction. Palm Beach County, FL (2019)

• Transect installation, nearshore hardbottom edge mapping, sedimentation surveys, digital video transects, data analysis, impact assessment and report documentation for nearshore hardbottom impact assessment for the 2016 Broward County Segment II Beach Nourishment Project (2015-present)

• Biological monitoring (BEAMR), sedimentation surveys, digital video transects, hardbottom mapping, data analysis, impact assessment and report documentation. Sarasota County, Anna Maria Island, FL (2016-2017)

• Biological monitoring (BEAMR, fate tracking, coral health), nearshore hardbottom edge mapping, sedimentation surveys, digital video transects, data analysis, impact assessment and report documentation for nearshore hardbottom impact assessment. Collier County, FL (2015-2016)

• Biological monitoring, marine debris survey, roving fish surveys, data analysis and report documentation for NOAA National Coral Reef Monitoring Program from Key Biscayne to Dry Tortugas. Miami-Dade and Monroe Counties, FL (2013-2014)

• Biological monitoring (BEAMR, fate tracking, coral health, digital video transects, data analysis, impact assessment and report documentation for Southeast Florida Coral Reef Evaluation and Monitoring Project. Martin, Palm Beach, Broward and Miami-Dade Counties, FL (2010-2014)

BRIAN K. WALKER, Ph.D.

Nova Southeastern University, Halmos College of Arts and Sciences, 8000 North Ocean Drive, Dania Beach, Florida 33004; Tel: 954-257-2347; Email: walkerb@nova.edu

Education

- Ph.D. Marine Biology, Halmos College of Natural Sciences and Oceanography, Nova Southeastern University, 2008.
- M.S. Marine Biology and Coastal Zone Management, Halmos College of Natural Sciences and Oceanography, Nova Southeastern University, 2002.
- B.A. Biology, College of Arts and Sciences, Florida State University, 1995.

Professional Appointments

- 2007 Pres. Research Scientist 2, GIS & Spatial Ecology Lab, Halmos College of Natural Sciences and Oceanography, Nova Southeastern University.
- Main Research: Spatial Ecology Seascape ecology, spatial dynamics of coral reef communities, reef community biogeography, marine faunal relationships to topography
 Seafloor Characterization Benthic habitat mapping (Shallow and Deep water), accuracy assessment, mapping techniques and technologies
 Scientific research study design Optimize research study design using GIS spatial data, developing and evaluating assessment and monitoring methodologies
 Management applications of scientific research Coral habitat impact assessment (Shallow and Deep), marine spatial planning, Acropora monitoring and mapping, anchorage placement/modification, special event impact minimization planning
 Coral Reef Geology Historical perspectives gained from present-day morphology

Highlighted Related Work Experience

- 2007 Pres. Mapping the dynamics of dense staghorn coral patches.
- 2004 Pres. Investigate biogeographic spatial patterns of Florida marine benthic communities.
- 2001 Pres. Delineation of detailed shallow and deep-water habitat maps using LIDAR, Mulitbeam, Sidescan, aerial and satellite photography, and underwater video and accuracy assessment of maps.
- 1999 Pres. Visual censusing of benthic flora and fauna and reef fishes on natural and artificial reefs in the Western Atlantic and Caribbean.
- 2001 Pres. Extensive knowledge of many GIS programs (ArcGIS, ENVI), image and video editing software (Photoshop, Premiere, Illustrator) and statistical software (Primer, SAS, JMP).

Selected Peer-reviewed Publications

- **Walker BK**, Reed JK, Ash J, Messing C, Brooke S, and S. Farrington. *In Review*. Regionalization of Benthic Hard Bottom Communities across the Pourtalès Terrace, Florida. Deep Sea Research.
- Walker BK, Eagan S, Ames C, Brooke S, Keenan S, Baumstark R (2020) Shallow-Water Coral Communities Support the Separation of Marine Ecoregions on the West-Central Florida Gulf Coast. Frontiers in Ecology and Evolution 8: 210
- Shideler GS, Araujo RJ, **Walker BK**, Blondeau J, and JE Serafy. 2017. Non-linear thresholds characterize the relationship between reef fishes and mangrove habitat. Ecosphere, 8, e01943-n/a.
- D'Antonio N, Gilliam DS, and **BK Walker**. 2016. Investigating the spatial distribution and effects of nearshore topography on *Acropora cervicornis* abundance in Southeast Florida. Peer J, *4*, e2473.
- Berry C, Hill RL, and **BK Walker**. 2016. Demographics of a nearshore mating queen conch (*Lobatus gigas*) aggregation on the southeast Florida Reef Tract. Bull Mar Sci 92(1):59-73.

Curriculum Vitae: Brian Walker, Ph.D. - 2 -

Reed JK, Messing C, **Walker B**, Brooke S, Correa T, Brouwer M, and T Udouj. 2013. Habitat characterization, distribution, and areal extent of deep-sea coral ecosystem habitat off Florida, southeastern United States. Journal of Caribbean Science 47, 13-30.

- **Walker BK** and DS Gilliam. 2013. Determining the Extent and Characterizing Coral Reef Habitats of the Northern Latitudes of the Florida Reef Tract (Martin County). *PLoS ONE, 8*(11), e80439.
- **Walker BK,** Larson EA, Moulding A, and DS Gilliam. 2012. Small-scale mapping and movement of shallowwater high-density staghorn coral (*Acropora cervicornis*) thickets. Coral Reefs, 31:885–894.
- **Walker BK.** 2012. Spatial Analyses of Benthic Habitats to Define Coral Reef Ecosystem Regions and Potential Biogeographic Boundaries along a Latitudinal Gradient. PLoS ONE 7:e30466
- Foster G, **Walker BK**, and BM Riegl. 2009. Interpretation of single-beam acoustic backscatter using lidarderived topographic complexity and benthic habitat classifications in a coral reef environment. Journal of Coastal Research, SI (53) 16-26.
- **Walker BK**, Riegl BM, and RE Dodge. 2008. Mapping Coral Reef Habitats in Southeast Florida Using a Combined Technique Approach. Journal of Coastal Research, 24(5), 1138-1150.

Book Chapters

- Costa B, **Walker BK**, Dijkstra J. 2018. "Spatial patterning in the sea: Mapping and quantifying seascape patterns." Seascape Ecology: Taking landscape ecology into the sea. Pittman SJ ed. Chapter 3.
- Banks KW, Riegl BM, Richards VP, **Walker BK**, Helmle KP, Jordan LKB, Phipps J, Shivji MS, Spieler RS, and RE Dodge. 2008. "The reef tract of continental southeast Florida (Miami-Dade, Broward, and Palm Beach Counties, USA)." In *Coral Reefs of the USA* (Eds. Riegl BM and RE Dodge), pp. 175-220, Springer.

Selected Technical Reports

- **Walker BK**, Noren H., Brunelle A., and S. Buckley. 2020. SE FL ECA Reef-building-coral Disease Intervention and Preparation for Restoration: Final Report. Florida DEP. Miami, FL, 80p.
- Walker, BK. 2018. Southeast Florida reef-wide Post-Irma coral disease surveys. Florida DEP. Miami, FL. Pp. 1-37.
- **Walker BK** and RE Dodge. 2018. "Habitat Equivalency Analysis of Mitigation Measures for the Naval Surface Warfare Center Carderock Division South Florida Ocean Measurement Facility's Planned Infrastructure and Maintenance." Dania, FL. Prepared for KMS Solutions LLC, 27p.
- **Walker BK** 2017. Characterize the condition of previously known and newly identified large dense Acropora cervicornis patches in southeast Florida. Miami, FL: Prepared for the Florida Department of Environmental Protection Coral Reef Conservation Program 76
- **Walker BK** and C Miller. 2016. Palm Beach Island Beach Management Agreement (BMA) 2014 Baseline Nearshore Benthic Habitat Mapping and Characterization Report. Prepared for Town of Palm Beach Public Works Department. Palm Beach, FL Pp. 50.
- Gilliam D and **BK Walker.** 2014. Broward County Port Everglades Proposed Sand Bypass Project: Benthic Resource Impact Summary. Under contract to Olsen Associates, Inc. and Coastal Eco-Group, Inc. for Broward County Natural Resources Planning and Management Division, Fort Lauderdale, FL 25.
- **Walker BK** and K Klug. 2014. Southeast Florida shallow-water coral reef community baseline habitat mapping and characterization of mapped communities. Florida DEP Coral Reef Conservation Program report. Miami Beach, FL. Pp. 84.
- Walker BK, Rodericks I, and AR Costaregni. 2013. Accuracy Assessment of the NOAA Florida Keys Benthic Habitat Maps: ROIs 1 – 4 combined (pp. 56). Silver Spring, MD: Prepared for the Office of National Marine Sanctuaries NOS/NOAA.
- **Walker BK.** 2009. Benthic Habitat Mapping of Miami-Dade County: Visual Interpretation of LADS Bathymetry and Aerial Photography. Florida DEP report #RM069. Miami Beach, FL. Pp. 47.

Abbreviated *Curriculum vitae* DAVID S. GILLIAM

Assistant Professor: Nova Southeastern University Oceanographic Center 8000 North Ocean Drive, Dania Beach, Florida 33004 Voice: 954-262-3634; Fax: 954-262-4098; Email: gilliam@nova.edu

PROFESSIONAL AFFILIATIONS:

South Atlantic Fisheries Management Council - Coral Advisory Panel

Southeast Florida Coral Reef Initiative (SEFCRI) - Team and Technical Advisor Committee Member

Florida Ecosystem Management and Restoration Trust Fund (EMRTF) - Project Team Member

EPA Coral Reef 'Driver' Focus Group - Team Member -

FL Wildlife Legacy Initiative, Wildlife Action Plan - Marine Goal Team Member

CURRENT GRANTS AND CONTRACTS BROWARD COUNTY (BWD):

- 2015: Spar Orion and Clipper Lasco reef injury restoration and monitoring. FDEP and FWC
- 2014: Beach Management Area surveys, monitoring and mitigation. Town of Palm Beach, Coastal Eco Group, Inc (CEG) (PALM BEACH COUNTY).
- 2008: Examination of the population dynamics of *Acropora cervicornis* populations offshore southeast Florida. NSU, FWC.
- 2007: Staghorn coral, *Acropora cervicornis*, offshore nurseries The Nature Conservancy, NOAA, American Recovery and Reinvestment Act ARRA, and Town of Lauderdale By the Sea.
- 2006: BWD Port Everglades Sand By-Pass Habitat Assessment: Olsen & Associates, Inc, CEG.
- 2006: Florida Reef Resilience survey in BWD: TNC.
- 2003: Southeast Florida Coral Reef Monitoring Program (SECREMP): NOAA, FDEP, and FWC.
- 2000: Marine biological monitoring in BWD: BWD Board of County Commissioners, Florida.

SELECTED PUBLICATIONS (2014-2017):

- Larson, E.A., D.S. Gilliam, M. Lopez-Padierna, and B.K. Walker. 2014. Possible recovery of *Acropora palmata* (Scleractinia: Acroporidae) within the Veracruz Reef System, Gulf of Mexico: a survey of 24 reefs at assess benthic communities. Revista de Bioligia Tropical 62 (3): 75-84.
- Halperin, A.A., A. Chaves-Fonnegra, and D.S. Gilliam. 2015. Effects of excavating-sponge removal on coral growth. Journal of the Marine Biological Association of the United Kingdom, available on CJO2015. doi:10.1017?S0025315415001228.
- St. Gelais, A., A. Chaves-Fonnegra, A. Brownlee, V. Kosmynin, A. Moulding, and D.S. Gilliam. 2016. Fecundity and sexual maturity of the coral *Siderastrea siderea* at high latitude along the Florida Reef Tract, USA. Invertebrate Biology 135 (1): 46-57. DOI:10.1111/ivb.12115.
- St. Gelais, A., A. Chaves-Fonnegra, A. Brownlee, V. Kosmynin, A. Moulding, and D.S. Gilliam. 2016. *Siderastrea siderea* spawning and oocyte resorption at high latitude. Invertebrate Reproduction and Development. DOI:10.1080/07924259.2016.1194334.
- D'Antonio, N., B.K. Walker, and D.S. Gilliam. 2016. Investigating the spatial distribution and effects of nearshore topography on *Acropora cervicornis* abundance in Southeast Florida. PeerJ 4:e2473 https://doi.org/10.7717/peerj.2473.
- Halperin, A.A., A. Chaves-Fonnegra, and D.S. Gilliam. 2016. Coral-excavating sponge Cliona delitrix: current trends of space occupation on high latitude coral reefs. Hydrobiologia. DOI 10.1007/s10750-016-3042-x.
- Lunz K.S., C. Shea, K.W. Ames, K. Neely, E.A. Goergen, D. Williams, D.S. Gilliam, A. Whittle A. 2016. Acropora palmata's last stand in Florida? Proceedings of the 13th International Coral Reef Symposium, Honolulu: 2-22.
- Goergen, E.A., Z. Ostroff, and D.S. Gilliam. In Press. Genotype and attachment technique influence the growth and survival of line nursery corals. PeerJ.



Robert M. Baron Senior Marine Scientist/Diving Safety Officer

Mr. Baron is a Project Manager and Marine Scientist with direct experience working on Town of Palm Beach projects since 2002. Robert manages large scale coastal projects including benthic habitat characterizations of

hardbottom/reef/seagrass communities, habitat remediation, post-hurricane impact assessments, and artificial reef habitat enhancement projects. As an experienced scientific diver, Robert is Tetra Tech's Center for Coastal Services American Academy of Underwater Sciences Diving Safety Officer and is proficient in coral reef, natural hardbottom and artificial reef benthic community monitoring and assessments; coral harvest and transplanting; seagrass surveying; in-water Gulf of Mexico, Atlantic, and Caribbean coral reef fish population censusing; and in-water sea turtle monitoring.

RELEVANT PROJECT EXPERIENCE

Palm Beach Island Florida Department of Environmental Protection Beach Management Agreement Cell-Wide Hardbottom Monitoring and Benthic Habitat Mapping, Coastal Eco-Group, Inc., Town of Palm Beach, FL (08/2014-Ongoing)

Project Manager, Senior Scientist. The basis for the Beach Management Agreement monitoring program is the initial characterization and classification of hardbottom communities within the study area. As a sub-contractor to Coastal Eco-Group, Robert participates in the annual *in situ* verification of hardbottom areas and borders to quantitatively characterize, classify, and map hardbottom communities according to the BMA classification scheme. Robert also contributed to the installation of BMA extensions to the existing permanent transects, re-established monitoring stations, and installed additional sediment monitoring transects in the Mid-Town project area.

Mid-Town Coral Nursey–Port of Palm Beach Berth 1 Coral Relocation Project, Coastal Eco-Group, Inc., Town of Palm Beach, FL (04/2019-05/2019)

Project Manager, Senior Scientist. Robert worked with Coastal Eco-Group to harvest and transplant coral colonies from the bulkhead along Berth 1 in the Port of Palm Beach in accordance Florida Fish and Wildlife Conservation Commission Special Activity License. The harvested colonies were relocated to the Town of Palm Beach's 0.8-acre artificial reef/coral nursery site for partial fulfillment of the Mid-Town Beach Renourishment Project Florida Department of Environmental Protection permit conditions.

Lake Worth Lagoon Staging Areas and Proposed Pipeline Corridor Marine Resource Investigations, Great Lakes Dredge and Dock Company, Palm Beach, FL (11/2015-12/2015)

Senior Scientist. Robert performed a pre-construction resource survey of the staging areas and pipeline corridor for the 2015/2016 Town of Palm Beach Phipps Beach Nourishment Project. The Phipps Beach Nourishment project placed 1.022,318 cubic yards of sand (from Sloan's Curve to the Palm Worth Condominium). The survey confirmed the presence/absence of natural resources, quantity, and abundance of seagrass within the USACE Proposed Staging Area, Town Vessel and Equipment Staging Area, and Pipeline Staging Area; as well as to delineate and measure vertical relief of hardbottom resources within the Pipeline Corridor.

Lake Worth Lagoon Pipeline Crossings Site Reconnaissance Investigations, Town of Manalapan, Manalapan, FL (08/2015-08/2016)

Senior Scientist. Robert conducted site reconnaissance investigations to document general site conditions and to determine potential challenges and issues associated with project feasibility. The City of Manalapan and the Town of Lake Worth replaced the water mains along portions of South Ocean Boulevard (State Route A1A) with new installations occurring at two locations across the Lake Worth Lagoon to Lands' End Road. The reconnaissance level investigations confirmed the presence of protected resources. Mangroves, seagrass, hardbottom, and live oysters were documented along the proposed pipeline route.

EDUCATION

MS, Marine Biology, Nova Southeastern University Oceanographic Center (2002) BS, Marine Science, Biology Minor, Rider University (2000)

YEARS OF EXPERIENCE

20 Years

AREAS OF EXPERTISE

Scientific Diving

Marine and Estuarine Resource Habitat Restoration and Creation

Submerged Aquatic Vegetation and Reef Surveys

Coral Transplantation



Firm Composition, Qualifications and Background

4

Completed, Active and Projected Projects





The following presents the completed projects that Coastal Eco-Group has managed over the last seven years, our active project list, and projected projects.

Completed Projects

- Rybovich Riviera Beach and West Palm Beach Marina Expansion State and Federal Permits and Permit Modifications (2014 through 2019)
- Rybovich Old Port Cove Seagrass Mitigation Annual Monitoring and Reporting (Years 1 through 3, 2016-2018)
- Lake Worth Lagoon CAP 1135 Benthic Macroinvertebrate Study (2016-2017)
- Lake Worth Lagoon 2011-2019 Annual Seagrass Transect Surveys and Report (9 years)
- 2013 Lake Worth Lagoon Seagrass Habitat Map (2013-2014)
- 2018 Lake Worth Lagoon Seagrass Habitat Map (2018-2020)
- Town of Palm Beach Year 4 2018 BMA Annual Monitoring, Hardbottom Map, and Report
- Town of Palm Beach Year 3 2017 BMA Annual Monitoring, Hardbottom Map, and Report
- Town of Palm Beach 2016 Phipps Beach Nourishment Project- 2017 Year 1 Post-Construction and 2016 Immediate Post-construction Hardbottom Monitoring
- Town of Palm Beach Year 2 2016 BMA Annual Monitoring, Hardbottom Map, and Report
- Town of Palm Beach Year 1 2015 BMA Annual Monitoring, Hardbottom Map, and Report (2017)
- Town of Palm Beach 2014 Baseline Benthic Habitat Map, Monitoring and Report (2015)
- Port of Palm Beach Slip 3 Orphan Coral Transplantation Project and Years 1 through 3 Coral Transplant Monitoring (2013-2019)
- Port of Palm Beach Berth 17 Coral Relocation Project and Benthic Habitat Mapping/EFH Assessment
- Port of Palm Beach Slip 1 Coral Seawall Survey and Benthic Habitat Mapping, Orphan Coral Relocation
- Jensen Beach Mooring Field Seagrass Mapping (2017)
- City of Boca Wildflower Seagrass Survey and Report (2016)
- City of Boca Raton Rutherford Park Seagrass Survey and Report (2017)
- Port Everglades Sand Bypass Project- Environmental Assessment and Biological Assessment (2015)
- 2016 Broward County Segment 2 Beach Nourishment Project Immediate Post-Construction Hardbottom Monitoring and Short-Term Sedimentation Monitoring
- 2010 North Boca Raton Beach Nourishment Project- Pre, During, Immediate and Post-Construction Hardbottom Monitoring (2010-2013)
- 2014 North Boca Raton Beach Nourishment Project- Pre, During and Immediate Post-Construction Offshore Reef Sedimentation Monitoring (2014)
- 2016/17 Central Boca Raton Beach Nourishment Project- Pre, During and Immediate Post-Construction Offshore Reef Sedimentation Monitoring (2016 and 2017)
- 2014 South Boca Raton Beach Nourishment Project Nearshore Hardbottom Monitoring Immediate Post-Construction through Year 2 (2014-2017)
- Charlotte County Erosion Control Project Submerged Pipeline Corridor Mapping (2015-2016)
- 2011/12 Town of Hilton Head Port Royal Shoreline Restoration and Stabilization Project, Piping Plover Foraging Habitat Evaluation- Pre Construction through Year 3 Post-Construction Annual Monitoring Reports (2011-2015)
- Hilton Head Fish Haul Creek Biological Assessment and EFH Assessment (2015)
- Hilton Head Fish Haul Creek BA and EFH Assessment (2015)
- 2016 Hilton Head Beach Nourishment Project- 2018 Year 2 post-construction piping plover foraging habitat report
- 2016 Hilton Head Beach Nourishment Project- 2017 Year 1 post-construction piping plover foraging habitat report

Coastal Eco-Group Inc.



- 2016 Hilton Head Beach Nourishment Project- Biological Assessment (2015)
- 2017 South Boca Raton Beach Nourishment Project- Immediate Post-Construction through 2019 Year 2 Post-Construction Hardbottom Monitoring and Report (2017-2020)
- Palm Beach County North County Comprehensive Shore Protection Project Biological Assessment (2016-2017)
- 2010 Bathtub Beach Nourishment Project- Immediate through Year 3 Post-Construction Hardbottom Monitoring and Annual Reports
- 2016 Bathtub Beach Sailfish Point Nourishment Project- Baseline Seagrass Mapping, Environmental Assessment/Biological Assessment, Environmental Permitting
- 2017/18 Bathtub Beach Sailfish Point Nourishment Project- Summer 2018 Seagrass Monitoring
- 2016 and 2017/18 Bathtub Beach Sailfish Point Nourishment Project- Seagrass Monitoring and Reporting within Turbidity Mixing Zone
- 2017/18 Bathtub Beach Sailfish Point Nourishment Project- 2018/19 Immediate Post-Con Survey Hardbottom Monitoring
- 2015/16 Martin County FWC Artificial Reef Monitoring Study/Grant (2015-2017)
- Mount Sinai CAP 14 Project Seagrass, Coral and Upland Tree Survey and Report (2016)
- 2011/12 City of Hollywood Beach Nourishment Project- Immediate through Year 3 Post-Construction Hardbottom Monitoring (2012-2017)
- 2018 City of Hollywood Beach Nourishment Project- 2018 Immediate Post-Construction Hardbottom Monitoring
- 2014 Ocean Ridge Shore Protection Project Environmental Assessment, Biological Assessment, Section 7 Consultation, Biological Monitoring Plan, Pre-During-Immediate Post-Construction Reef Surveys (2012-2014)
- Riviera Beach Marina Seagrass Survey, Map and Report (2019)
- Amelia Island Beach Nourishment Project Essential Fish Habitat Assessment and Section 7 Biological Assessment (2018-19)
- Longboat Key North End Structural Stabilization Project- Biological Assessment and Section 7 consultation (2018)
- 2016 Broward County Segment 2 Beach Nourishment Project- 2018 Year 1 Post-Construction Hardbottom Monitoring
- Broward County Segment 3 Beach Nourishment Project NEPA Environmental Assessment, Biological Assessment and Benthic Habitat Map (2018-2020)
- 2016 South Siesta Key Beach Nourishment Project- 2018 Year 2 and 2019 Year 3 Post-Construction Hardbottom Monitoring (2018-2019)
- 2016 Longboat Pass Navigational Maintenance Dredging Project- 2020 Year 3 Post-Construction hardbottom monitoring





Active Projects

- Town of Palm Beach MidTown Coral Nursery Mitigation and Monitoring
- Town of Palm Beach Year 5 2019 BMA Annual Monitoring, Hardbottom Map, and Report
- 2017/18 Bathtub Beach Sailfish Point Nourishment Project- 2020/21 Year 2 Post-Construction Hardbottom Monitoring and Report
- 2017/18 Bathtub Beach Sailfish Point Nourishment Project- 2019/20 Year 1 Post-Construction Hardbottom Monitoring and Report
- Manasota Key (Charlotte County) Immediate Post-construction Nearshore Hardbottom Monitoring and Mitigation Reef Monitoring
- Shipwreck Park Artificial Reef Snorkel Trail and Living Shoreline- Environmental Permitting
- 2017 South Boca Raton Beach Nourishment Project -2020 Year 3 Post-Construction Nearshore Hardbottom Monitoring and Reporting
- 2016 Longboat Pass Navigational Maintenance Dredging Project- 2020 Year 3 Post-Construction hardbottom monitoring
- 2016 Broward County Segment 2 Beach Nourishment Project- 2019 Year 2 and 2020 Year 3 Post-Construction Hardbottom Monitoring and Reporting
- Broward County Segment 2 and 3 Bi-annual Nearshore Hardbottom Surveys Summer 2020 and Winter 2020/21

Projected Projects

- Broward County Segment 3 2020 Pre-construction Baseline Hardbottom Monitoring- Park shoreline (2020-21)
- Broward County Segment 2 2020 Pre-construction Baseline Hardbottom Monitoring of Reach 1 (2020-21)
- Broward County Port Everglades Sand Bypass Project- Baseline Pre-construction Hardbottom and Seagrass Surveys (2021)

Coastal Eco-Group prides itself on developing project goals and objectives, and subsequently project scopes, that meet the desired timelines and budgets of the Town. CEG Team members successfully met the Town's operational and administrative requirements during our previous contract with the Town for Marine Resource Assessment & Monitoring Services. Our technical expertise in the areas outlined in the RFQ and our existing knowledge of Town projects and project areas in advance of the need for rapid and cost-effective action are a tremendous asset to the Town.

All Team members have been working together on BMA monitoring since 2014; and some Team members have been working together since 2009. This ensures that there is no learning curve, and that all Team members are intimately familiar with the Town's projects and resources and are ready to continue providing services. This ensures establishment of realistic and achievable results for the timeline and financial limits of the BMA. The CEG Project Team has also demonstrated its commitment to completion of fieldwork according to survey windows and can run two or more boats on any given field day to complete field tasks. For example, the CEG Project Team recently completed the





2020 BMA field survey within an 8-week period this past summer despite Co-vid restrictions.

Coastal Eco-Group has successful worked with the Town and State and Federal regulatory staff to complete many fast-tracked and budget-limited tasks. Please see the Town of Palm Beach Municipal Docks project description for a good example of providing





Financial Information

Coastal Eco-Group Inc. requests that the following confidential trade secret information (Chapter 688, and Sections 812.081 and 815.045 F.S.) be exempt from public disclosure, pursuant to Florida Statutes, Chapter 119.071 F.S.



Cash Basis

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Coastal Eco-Group Inc. Balance Sheet As of December 31, 2019

| | Dec 31, 19 |
|--|-------------|
| ASSETS | |
| Current Assets | |
| Checking/Savings | |
| Amtrust checking | 74,068.79 |
| BBT | 229,433.02 |
| Total Checking/Savings | 303,501.81 |
| Total Current Assets | 303,501.81 |
| Fixed Assets | |
| Field Equipment | 14,399.04 |
| Company Vehicle | 21,191.77 |
| Furniture and Equipment | 97,991.23 |
| Accumulated Depreciation | -114,679.34 |
| Total Fixed Assets | 18,902.70 |
| TOTAL ASSETS | 322,404.51 |
| LIABILITIES & EQUITY Liabilities Current Liabilities | |
| Payroll Liabilities | 880.71 |
| Total Other Current Liabilities | 880.71 |
| Total Current Liabilities | 880.71 |
| Total Liabilities | 880.71 |
| Equity | |
| Additional Paid In Capital | 4,500.00 |
| Capital Stock | 500.00 |
| Retained Earnings | 117,546.37 |
| Shareholder Distributions | -119,367.33 |
| Net income | 318,344.76 |
| Total Equity | 321,523.80 |
| TOTAL LIABILITIES & EQUITY | 322,404.51 |

Cash Basis

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Coastal Eco-Group Inc. Profit & Loss January through December 2019

| _ | Jan - Dec 19 | % of Income |
|--------------------------------------|--------------|-------------|
| Ordinary Income/Expense | | |
| Income | | 400.004 |
| Consulting Income | 1,240,339.55 | 100.0% |
| Total Income | 1,240,339.55 | 100.0% |
| Cost of Goods Sold | | |
| Subcontracted Services | 51,500.52 | 4.2% |
| 1099 Independent Contractor | 135,721.86 | 10.9% |
| Total COGS | 187,222.38 | 15.1% |
| Gross Profit | 1,053,117.17 | 84.9% |
| Expense | | |
| Advertising/Marketing | 1,000.00 | 0.1% |
| Airlines/baggage fees | 5,977.56 | 0.5% |
| Bank Service Charges | 360.27 | 0.0% |
| Business Licenses and Permits | 555.43 | 0.0% |
| Car Repairs and Maintenance | 2,556.27 | 0.2% |
| Car/Boat Rental | 15,246.09 | 1.2% |
| Depreciation Expense | 2,887.00 | 0.2% |
| Dues and Subscriptions | 1,175.00 | 0.1% |
| Equipment Rental | 7,400.00 | 0.6% |
| Field supplies & Equipment | 5,394.74 | 0.4% |
| Food | 4,856.91 | 0.4% |
| Fuel | 9,032.35 | 0.7% |
| Hotels | 9,850.65 | 0.8% |
| insurance Expense | | |
| Car Insurance | 2,241.36 | 0.2% |
| Dive insurance | 465.00 | 0.0% |
| Health Insurance | 16,856.10 | 1.4% |
| MEL Insurance | 30,210.00 | 2.4% |
| Professional Liability | 3,593.22 | 0.3% |
| USL&H, State Comp | 21,572.00 | 1.7% |
| Total Insurance Expense | 74,937.68 | 6.0% |
| Mileage | 2,878.43 | 0.2% |
| Office Equipment/Supplies | 15,657.12 | 1.3% |
| Office maintrepair | 2,520.00 | 0.2% |
| Parking | 558.90 | 0.0% |
| Payroll Expenses | | |
| Employee Wages | 385,962.41 | 31.1% |
| Officer Salary | 112,000.00 | 9.0% |
| Payroll Expenses - Other | 0.00 | 0.0% |
| Total Payroll Expenses | 497,962.41 | 40.1% |
| Payroll Tax | 38,139.59 | 3.1% |
| Permit Fees | 25.00 | 0.0% |
| Postage and Delivery | 341.02 | 0.0% |
| Rent Expense | 19,452.79 | 1.6% |
| Road Tolls | 186.70 | 0.0% |

Cash Basis

Coastal Eco-Group Inc. Profit & Loss January through December 2019

| | Jan - Dec 19 | % of Income |
|---------------------------------------|--------------|-------------|
| Scuba Air Fills/Equip. repair | 5,868.02 | 0.5% |
| Tax Prep. Fees | 1,260.00 | 0.1% |
| Telephone/internet | 6,331.09 | 0.5% |
| Transportation Cab/Ferry | 683.04 | 0.1% |
| Utilities | 1,678.35 | 0.1% |
| Total Expense | 734,772.41 | 59.2% |
| Net Ordinary Income | 318,344.76 | 25.7% |
| Other Income/Expense Other Expense | | |
| Income tax Return Unallowable | 0.00 | 0.0% |
| Total Other Expense | 0.00 | 0.0% |
| Net Other Income | 0.00 | 0.0% |
| Net Income | 318,344.76 | 25.7% |

.

🔲 INSIGHTS 🔒

Update your information with D-U-N-S® Manager

Report as of: 09-13-2020

| Active SINGLE LOCATION Address: 665 SE 10 | Manage your business with ClientBooks from 1-800Accountant. Your first two months are free. | | | |
|---|--|-------------------|---------------------|-------------------------|
| SCORES AND RATINGS | Delinquency | Financial Stress | Supplier Evaluation | Start for Free |
| | Predictor Percentile 🛭 🔀 | Percentile ① | Risk Rating ① | 1-800 ACCOUNTANT |
| 80 | 96 | 88 | 2 | |
| Low risk | LOW RISK | Low-moderate risk | Low RISK | |

Unlock all the features of CreditBuilder™

The only product on the market that allows you to monitor and potentially build your D&B® credit file.

Call 1-855-315-3720 to learn more

| COMPANY PROFILE 🚯 | | | > |
|------------------------|--------------------------|------------------------------|---|
| D-U-N-S | Mailing Address | Annual Sales | |
| 61-942-5080 | United States | US\$ 104,643 | |
| Business Form | Telephone | Employees | |
| Corporation | (954) 708-2127 | 8 | |
| Date Incorporated | Website | Age (Year Started) | |
| November 21, 2005 | www.coastaleco-group.com | 15 (2005) | |
| State of Incorporation | | Named Principal | |
| FL | | Cheryl L Miller, President | |
| Ownership | | Line of Business | |
| Not publicly traded | | Business consulting services | |
| Not publicly traded | | | |

| LEGAL EVENTS 🚯 | | | | |
|----------------|---------------|----------------|--|--|
| Events 👻 | Open Count | ▼ Last Filed ▼ | | |
| 3ankruptcies | itcies 0 - | | | |
| udgments | 0 | - | | |
| lens | 0 | - | | |
| Suits | 0 | - | | |
| сс | 1 | 10-18- 2010 | | |

OWNERSHIP

| This company is a Single Location. | |
|------------------------------------|----------|
| Total Members in Family Tree - 0 | |
| Cubaidiarian | Duonohoo |
| Subsidiaries | Branches |
| - | - |
| | |
| | |

FINANCIAL OVERVIEW

This company has not provided financial statements to D&B.

| IN | IQUIRIES | |
|----|---------------------------|------------------|
| | 12 Month Summary | |
| | Total number of Inquiries | Unique Customers |
| | 5 [•] | 2 |
| | | |

*Trade References will be added subject to Dun & Bradstreet verification and acceptance. Dun & Bradstreet cannot guarantee that trade references will be accepted or that accepted trade references will impact your business credit file. Please see https://www.dandb.com/glossary/trade-references/ for eligibility, process and other information regarding Trade References.

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The **Coastal Eco-Group** team has been assembled to provide an experienced and dedicated project team to specifically serve the Town of Palm in all areas described in the Scope of Services listed in the RFQ. There are no exceptions or variations to any section of this proposal. Our teaming history provides assurance to the Town that the requested services will be provided by highly-skilled experts with well-established, effective relationships with Town and regulatory professionals. Our long-term support of Town activities and collaboration with agency personnel have resulted in effective development and implementation of critical monitoring programs. Our comprehensive knowledge of the Town's coastal resources and management strategies combine to make the **Coastal Eco-Group** team a significant asset to the Town of Palm Beach.

Coastal Eco-Group has not lost and/or cancelled accounts or been denied a contract. During our previous Marine Resource Assessment and Monitoring Services contract with the Town, **CEG** completed all work orders without requesting additional funds to complete the services. The only modifications to purchase orders issued to **CEG** involved no cost administrative modification requests to approve alternative tasks at the request of the Town.

No officers employed by **Coastal Eco-Group Inc**. have been named party to any litigation, arbitration, or regulatory action since company establishment in 2005. If claims are made or discovered during the course of a contract with the Town of Palm Beach, they will be divulged immediately, and the facts explained accurately and fairly. Because CEG focuses on providing marine and estuarine consulting services, there are no licensed professionals on staff.

The **CEG** team has maintained compliance with the Town's insurance requirements since 2014. Certificates of insurance are provided for all **CEG** team members in this response.

The **CEG** team is locally based and can continue to support Town efforts on an as-needed basis without incurring additional mobilization costs. Our project team regularly mobilizes within Palm Beach County and has demonstrated flexibility to support Town efforts on short notice. Coastal Eco-Group has operated a satellite office in the Village of North Palm Beach since May 2019. This office allows for rapid mobilization of field gear and confirmation of ocean conditions before deployment of the field team.

As described throughout this response package, the **CEG** team will continue to provide the Town of Palm Beach with the highest level of services for completing the BMA annual hardbottom monitoring requirements based on our past experience; long-standing client prioritization and responsiveness to the Town; cost-effective provision of services; understanding of local interests and public stakeholder concerns for natural resources; direct and extensive knowledge of the Town of Palm Beach shoreline and nearshore hardbottom; and Unequaled marine ecological and permitting experience in Palm Beach County and southeast Florida.





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 07/15/2020

| 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 If SUBROGATION IS WAIVED, subject to | an AD o the t | DITI(erms | ONAL INSURED, the polic and conditions of the po | y(ies) must have A licy, certain policie | DDITIONAL IN s may require | ISURED provisions or be er an endorsement. A statem | ndors ent o | ed. n |
| this certificate does not confer rights to | the c | ertifi | cate holder in lieu of such | endorsement(s). | | | | |
| PRODUCER | | | | NAME: Karen Bi | inkley | EAV | | |
| Iron Ridge Insurance | | | | (800) | 75-8526 | (A/C, No): (2 | 239) 28 | 38-7544 |
| 4971 Royal Gulf Circle | | | | ADDRESS: kbrinkley | @ironridgeinsu | rance.com | | |
| | | | | | SURER(S) AFFOR | RDING COVERAGE | | NAIC # |
| Fort Myers | | | FL 33966 | INSURER A: Markel | International Ins | s Co | | |
| INSURED | | | | INSURER B : | | | | |
| Coastal Eco-Group Inc | | | | INSURER C : | | | | |
| 665 SE 10th St | | | | INSURER D : | | | | |
| Suite 104 | | | | INSURER E : | | | | |
| Deerfield Beach | | | FL 33441 | INSURER F : | | | | |
| COVERAGES CER | TIFIC | ATE I | NUMBER: CL207130534 | 5 | | REVISION NUMBER: | | |
| THIS IS TO CERTIFY THAT THE POLICIES OF | INSUR | ANCE | LISTED BELOW HAVE BEEN | ISSUED TO THE INSU | JRED NAMED A | BOVE FOR THE POLICY PERIO |) | |
| INDICATED. NOTWITHSTANDING ANY REQUI | | NT, TE | | | | WITH RESPECT TO WHICH THIS | 3 | |
| EXCLUSIONS AND CONDITIONS OF SUCH PC | DLICIES | S. LIM | ITS SHOWN MAY HAVE BEEN | REDUCED BY PAID (| LAIMS. | UDJECT TO ALL THE TERMIS, | | |
| | | | POLICY NUMBER | POLICY EFF | | LIMITS | | |
| COMMERCIAL GENERAL LIABILITY | | | . eller Hombell | | | | | |
| | | | | | | DAMAGE TO RENTED | | |
| | | | | | | MED EXP (Any and norman) | | |
| | | | | | | MED EXP (Any one person) \$ | | |
| | | | | | | PERSONAL & ADV INJURY \$ | | |
| PRO- | | | | | | GENERAL AGGREGATE \$ | | |
| | | | | | | PRODUCTS - COMP/OP AGG \$ | | |
| | | | | | | COMBINED SINGLE LIMIT | | |
| | | | | | | (Ea accident) | | |
| | | | | | | BODILY IN IURY (Per perident) | | |
| AUTOS ONLY AUTOS HIRED NON-OWNED | | | | | | PROPERTY DAMAGE | | |
| AUTOS ONLY AŬTOS ONLY | | | | | | (Per accident) | | |
| | | | | | | ۵ ا | | |
| | | | | | | EACH OCCURRENCE \$ | | |
| CLAIMS-MADE | - | | | | | AGGREGATE \$ | | |
| DED RETENTION \$ | | | | | | PER OTH- | | |
| AND EMPLOYERS' LIABILITY Y/N | | | | | | STATUTE ER | 1 000 | 000 |
| A ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? | N/A | | MEL: B190620-085-20 | 07/15/2020 | 12/12/2021 | E.L. EACH ACCIDENT \$ | 1,000 | ,000 |
| (Mandatory in NH) | | | | | | E.L. DISEASE - EA EMPLOYEE \$ | 1,000 | ,000 |
| DÉSCRIPTION OF OPERATIONS below | | | | | | E.L. DISEASE - POLICY LIMIT \$ | 1,000 | ,000 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | <u> </u> | | | |
| DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLI | ES (AC | ORD 1 | 01, Additional Remarks Schedule, | may be attached if more | space is required) | | | |
| | | | | | | | | |
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| | | | | | | | | |
| CERTIFICATE HOLDER | | | | CANCELLATION | | | | |
| | | | | | | | | |
| | | | | SHOULD ANY OF | THE ABOVE DE | SCRIBED POLICIES BE CANCE | LLED | BEFORE |
| | | | | | DATE THEREO | F, NOTICE WILL BE DELIVERED | IN | |
| Town of Palm Beach | | | | ACCONDANCE W | | | | |
| 360 South County Rd. | | | | AUTHORIZED REPRES | INTATIVE | | | |
| | | | | | | 1 0101 | | |
| Palm Beach | | | FL 33480 | | X | in alla | | |

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| A | СС |)RD _™ | CERTIFIC | CATE O | F LIABIL | ITY INS | | E | DATE 12 | (MM/DD/YY) /10/2019 |
|----------------------|-----------------------------------|--|--|---|--|--|---|--|--------------------------------|--|
| PRODU | JCER | SOUTH 2665 SC COCON | EAST INSURANCE (DUTH BAYSHORE D IUT GROVE, FL 331 | GROUP RIVE, STE 1001 33 | Serial # 146636 | THIS CERTIFICATE IS ISSUED AS A MATTER OF INI ONLY AND CONFERS NO RIGHTS UPON THE HOLDER. THIS CERTIFICATE DOES NOT AMEND, ALTER THE COVERAGE AFFORDED BY THE POLIC | | | | Mation Tificate End Or Below. |
| | | PHONE | : (305) 442-1500 | | | INSURERS A | FFORDING COVE | RAGE | NA | IC# |
| INSUR | ED | | | | | INSURER A: LL | OYDS OF LONDC | N - OSPREY | | |
| | | COAST | TAL ECO GROUP, | INC | | INSURER B: PI | MA INSURANCE G | ROUP | | |
| | | 665 SE | 10TH ST. SUITE | 104 | | INSURER C: A | MERICAN LONGS | HORE MUTUAL ASSOC | | |
| | | DEERF | FIELD BEACH, FL 3 | 3441 | | INSURER D: | | | | |
| <u> </u> | -DAC | | | | | INSURER E: | | | | |
| TH AN MA PC | IE PC IY RE AY PE DLICIE | DLICIES OF IN QUIREMENT RTAIN, THE ES, AGGREG | ISURANCE LISTED BE , TERM OR CONDITION INSURANCE AFFORDE ATE LIMITS SHOWN M | OW HAVE BEEN N OF ANY CONTR D BY THE POLICI AY HAVE BEEN R | ISSUED TO THE INSU ACT OR OTHER DOO ES DESCRIBED HERE EDUCED BY PAID CL | URED NAMED AB CUMENT WITH R IN IS SUBJECT AIMS. | OVE FOR THE POLIC ESPECT TO WHICH TO ALL THE TERMS, | CY PERIOD INDICATED. NO THIS CERTIFICATE MAY EXCLUSIONS AND CONI | otwith: ' be iss ditions | STANDING SUED OR OF SUCH |
| | DD'L | TYPE | OF INSURANCE | POLICY | NUMBER | OLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMI | тs | |
| | ┝ | GENERAL LIA | BILITY | | | | | EACH OCCURRENCE | \$ | |
| | ┝ | COMMER | | | | | | PREMISES (Ea occurence) | \$ ¢ | |
| | ┝ | CLA | | | | | | | ې د | |
| | ┢ | | | | | | | GENERAL AGGREGATE | \$ | |
| | f | GEN'L AGGRE | GATE LIMIT APPLIES PER: | | | | | PRODUCTS - COMP/OP AGG | \$ | |
| | | POLICY | PRO- JECT LOC | | | | | | | |
| | | AUTOMOBILE ANY AUT | LIABILITY O | | | | | COMBINED SINGLE LIMIT (Ea accident) | \$ | |
| | | ALL OWN SCHEDUL | ED AUTOS ED AUTOS | | | | | BODILY INJURY (Per person) | \$ | |
| | - | HIRED AU | ITOS NED AUTOS | | | | | BODILY INJURY (Per accident) | \$ | |
| | - | | | | | | | PROPERTY DAMAGE (Per accident) | \$ | |
| | ŀ | GARAGE LIAB | ILITY | | | | | AUTO ONLY - EA ACCIDENT | \$ | |
| | ⊦ | ANY AUT | 0 | | | | | OTHER THAN EA ACC | \$ | |
| | | EVCESS/UMB | | | | | | | e a | |
| | ŀ | OCCUR | | | | | | | \$ | |
| | Γ | | | | | | | ACCILE AND | \$ | |
| | Ī | DEDUCTI | BLE | | | | | | \$ | |
| | | RETENTIO | SN \$ | | | | | | \$ | |
| | | ER'S COMPEN | ISATION AND | A) MEL: B0702 | ML000720M | A) 7/15/19 | 7/15/20 | X WC STATU- TORY LIMITS ER | - | |
| / | ANY P | ROPRIETOR/P | ARTNER/EXECUTIVE | B) STATE ACT | WC: 0475533Y | B) 12/12/19 | 12/12/20 | EL EACH ACCIDENT | \$ | 1,000,000 |
| | JFFIC f yes, | ER/MEMBER E | XCLUDED? | C) USLAH. AL | WA01129-07 | C) 12/12/19 | 12/12/20 | EL DISEASE - EA EMPLOYEE | \$ | 1,000,000 |
| | SPECI | AL PROVISION R | S below | | | | | EL DISEASE - POLICY LIMIT | \$ | 1,000,000 |
| | | | | | | | | | | |
| DESCR | IPTIO | N OF OPERAT | ONS/LOCATIONS/VEHICLE | S/EXCLUSIONS ADD | ED BY ENDORSEMENT/S | SPECIAL PROVISION | IS | - | | |
| 2) S LIAB | TAT ILIT | E ACT WC Y (JONES | COVERAGE. 3) L ACT COVERAGE) | ISL&H INCLUD TERRITORIA | DED IN WORKER: L LIMITS: US GUI | S COMP (INCL LF INCLUDING | LUDES DIVING). G INLAND & COA | 1) MARITIME EMPLO ASTAL WATERS OF T | DYERS THE US | SA. |
| CERI | TIFIC | | ER | | | | ION | | | |
| | | | . | | | SHOULD ANY OF | THE ABOVE DESCRIBE | ED POLICIES BE CANCELLED B | EFORE T | HE EXPIRATION |
| | | | | | | DATE THEREOF | , THE ISSUING INSURE | R WILL ENDEAVOR TO MAIL | <u> 30 </u> □ | AYS WRITTEN |
| | | ΤΟWΝ (ΔΤΤΝ·Γ | | | | NOTICE TO THE | CERTIFICATE HOLDER | NAMED TO THE LEFT, BUT FAI | ILURE TO | DO SO SHALL |
| | | 360 SO | JTH COUNTY RD. | | | IMPOSE NO OBL | IGATION OR LIABILITY | OF ANY KIND UPON THE INSUF | RER, ITS A | GENTS OR |
| | | PALM B | EACH, FL 33480 | | | REPRESENTATI | /ES. | | | |
| | | | | | | AUTHORIZED REP | PRESENTATIVE 13459 | | | |
| | | 1 | | | | 1 | | THOMAS ANDERS | SEN | |



CERTIFICATE OF LIABILITY INSURANCE

| LUBINR |
|-------------------|
| DATE (MM/DD/YYYY) |

COASECO-03

| TH CE BE RE IMI If S thi | IS CERTIFICATE IS ISSUED AS A RTIFICATE DOES NOT AFFIRMAT LOW. THIS CERTIFICATE OF IN PRESENTATIVE OR PRODUCER, AI PORTANT: If the certificate holde | MA IVEL SURA ND TI | TTEF Y OF | R OF INFORMATION ON R NEGATIVELY AMEND, DOES NOT CONSTITU | LY AN EXTE TE A | D CONFERS ND OR ALT CONTRACT | NO RIGHTS ER THE CO | UPON THE CER | RTIFICATE I | HOLDER. THIS THE POLICIES |
|--|--|------------------------------|---------------------------------|--|--------------------------------------|--|--|---|---|----------------------------------|
| IM If thi PROD | PORTANT: If the certificate holde | | | ERTIFICATE HOLDER. | | | DEIWEEN | THE ISSUING IN | 15URER(5), | AUTHORIZED |
| PROD | SUBROGATION IS WAIVED, subjects confer rights t | risa ctto othe | n AD the certi | DITIONAL INSURED, the terms and conditions of ificate holder in lieu of su | policy the po | (ies) must ha licy, certain lorsement(s) | ve ADDITIOI policies may | NAL INSURED p require an endo | orovisions o orsement. | r be endorsed. A statement on |
| FROD | | | 0011 | | CONTA | ^{c⊤} Donna F | ountain | | | |
| Insur | ance Office of America | | | | PHONE | (904) 5 | 06-2837 22 | 1/3 | FAX | 4) 448-0788 |
| 1855 | West State Road 434 | | | | (A/C, NO | , Ext): (304) C | ountain@ic | | (A/C, No):(30 | 4) 440-97 00 |
| Long | wood, FL 32750 | | | | ADDRE | SS: Donna.i | ountaineit | | | |
| | | | | · | | | | | | NAIC # |
| | | | | | INSURE | | | Company | | 24000 |
| INSUR | ED Coastal Eco-Group Inc | | | | INSURE | R B : Owners | insurance | Company | | 32700 |
| | 665 SE 10th St. | | | | INSURE | RC: | | | | |
| | Suite 104 | | | | INSURE | RD: | | | | |
| | Deerfield Beach, FL 33441 | | | | INSURE | RE: | | | | |
| | | | | | INSURE | RF: | | | | |
| COV | ERAGES CER | TIFIC | CATE | ENUMBER: | | | | REVISION NUN | IBER: | |
| IH INE CE EX | S IS TO CERTIFY THAT THE POLICII DICATED. NOTWITHSTANDING ANY R RTIFICATE MAY BE ISSUED OR MAY CLUSIONS AND CONDITIONS OF SUCH | ES OI EQUI PER POLI | - INS REMI TAIN, CIES. | SURANCE LISTED BELOWF ENT, TERM OR CONDITION THE INSURANCE AFFORE LIMITS SHOWN MAY HAVE | HAVE B N OF A DED BN BEEN F | EEN ISSUED NY CONTRAC THE POLICI REDUCED BY | TO THE INSUF CT OR OTHEF IES DESCRIB PAID CLAIMS. | RED NAMED ABOV R DOCUMENT WIT ED HEREIN IS SU | VE FOR THE TH RESPECT JBJECT TO A | TO WHICH THIS LL THE TERMS, |
| INSR I TR | TYPE OF INSURANCE | | | POLICY NUMBER | | POLICY EFF (MM/DD/YYYY) | POLICY EXP | | LIMITS | |
| A | X COMMERCIAL GENERAL LIABILITY | | | | | (| | EACH OCCURRENC | E \$ | 1,000,000 |
| | CLAIMS-MADE X OCCUR | x | | FEI-ECC-13192-07 | | 2/21/2020 | 2/21/2021 | DAMAGE TO RENTE | ED \$ | 50,000 |
| F | | ~ | | | | | | | | 5,000 |
| F | | | | | | | | | | 1,000,000 |
| F | | | | | | | | | | 1,000,000 |
| | | | | | | | | GENERAL AGGREG | | 1,000,000 |
| F | | | | | | | | PRODUCTS - COMP | VOP AGG \$ | |
| в | | | | | | | | COMBINED SINGLE | LIMIT | 1.000.000 |
| | | | | 5083808000 | | 8/17/2020 | 9/17/2021 | (Ea accident) | \$ | ,, |
| F | | | | 2002030300 | | 0/17/2020 | 0/17/2021 | BODILY INJURY (Pe | er person) \$ | |
| | AUTOS ONLY AUTOS HIRED AUTOS ONLY AUTOS ONLY | | | | | | | BODILY INJURY (Pe PROPERTY DAMAG (Per accident) | er accident) \$ | |
| | | | | | | | | | \$ | |
| F | UMBRELLA LIAB OCCUR | | | | | | | EACH OCCURRENC | CE \$ | |
| Ļ | EXCESS LIAB CLAIMS-MADE | - | | | | | | AGGREGATE | \$ | |
| | DED RETENTION \$ | - | | | | | | | \$ | |
| <u> </u>] | NORKERS COMPENSATION AND EMPLOYERS' LIABILITY | | | | | | | STATUTE | ER | |
| l. | | N/A | | | | | | E.L. EACH ACCIDEN | NT \$ | |
| | Mandatory in NH) | | | | | | | E.L. DISEASE - EA E | MPLOYEE \$ | |
| | r yes, describe under DESCRIPTION OF OPERATIONS below | | | | | | | E.L. DISEASE - POL | ICY LIMIT \$ | |
| A | Pollution Commercial | | | FEI-ECC-13192-07 | | 2/21/2020 | 2/21/2021 | Aggregate | | 1,000,000 |
| | Professional Liab | | | FEI-ECC-13192-07 | | 2/21/2020 | 2/21/2021 | Aggregate | | 1,000,000 |
| · ~ · | | 1 | | | | | | | | |

| CERTIFICATE HOLDER | 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. |
| Town of Palm Beach Attn: David Perez 360 S. County Rd. | |

ACORD 25 (2016/03)

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| A | СС |)RD _™ | CERTIFIC | CATE O | F LIABIL | ITY INS | | E | DATE 12 | (MM/DD/YY) /10/2019 |
|----------------------|-----------------------------------|--|--|---|--|--|---|--|--------------------------------|--|
| PRODU | JCER | SOUTH 2665 SC COCON | EAST INSURANCE (DUTH BAYSHORE D IUT GROVE, FL 331 | GROUP RIVE, STE 1001 33 | Serial # 146636 | THIS CERTIFICATE IS ISSUED AS A MATTER OF INI ONLY AND CONFERS NO RIGHTS UPON THE HOLDER. THIS CERTIFICATE DOES NOT AMEND, ALTER THE COVERAGE AFFORDED BY THE POLIC | | | | Mation Tificate End Or Below. |
| | | PHONE | : (305) 442-1500 | | | INSURERS A | FFORDING COVE | RAGE | NA | IC# |
| INSUR | ED | | | | | INSURER A: LL | OYDS OF LONDC | N - OSPREY | | |
| | | COAST | TAL ECO GROUP, | INC | | INSURER B: PI | MA INSURANCE G | ROUP | | |
| | | 665 SE | 10TH ST. SUITE | 104 | | INSURER C: A | MERICAN LONGS | HORE MUTUAL ASSOC | | |
| | | DEERF | FIELD BEACH, FL 3 | 3441 | | INSURER D: | | | | |
| <u> </u> | -DAC | | | | | INSURER E: | | | | |
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| | ┝ | COMMER | | | | | | PREMISES (Ea occurence) | \$ ¢ | |
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| | f | GEN'L AGGRE | GATE LIMIT APPLIES PER: | | | | | PRODUCTS - COMP/OP AGG | \$ | |
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| | - | | | | | | | PROPERTY DAMAGE (Per accident) | \$ | |
| | ╞ | GARAGE LIAB | ILITY | | | | | AUTO ONLY - EA ACCIDENT | \$ | |
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| | | ER'S COMPEN | ISATION AND | A) MEL: B0702 | ML000720M | A) 7/15/19 | 7/15/20 | X WC STATU- TORY LIMITS ER | - | |
| / | ANY P | ROPRIETOR/P | ARTNER/EXECUTIVE | B) STATE ACT | WC: 0475533Y | B) 12/12/19 | 12/12/20 | EL EACH ACCIDENT | \$ | 1,000,000 |
| | JFFIC f yes, | ER/MEMBER E | XCLUDED? | C) USLAH. AL | WA01129-07 | C) 12/12/19 | 12/12/20 | EL DISEASE - EA EMPLOYEE | \$ | 1,000,000 |
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| CERI | TIFIC | | ER | | | | ION | | | |
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| | | | | | | DATE THEREOF | , THE ISSUING INSURE | R WILL ENDEAVOR TO MAIL | <u> 30 </u> □ | AYS WRITTEN |
| | | ΤΟWΝ (ΔΤΤΝ·Γ | | | | NOTICE TO THE | CERTIFICATE HOLDER | NAMED TO THE LEFT, BUT FAI | ILURE TO | DO SO SHALL |
| | | 360 SO | JTH COUNTY RD. | | | IMPOSE NO OBL | IGATION OR LIABILITY | OF ANY KIND UPON THE INSUF | RER, ITS A | GENTS OR |
| | | PALM B | EACH, FL 33480 | | | REPRESENTATI | /ES. | | | |
| | | | | | | AUTHORIZED REP | PRESENTATIVE 13459 | | | |
| | | 1 | | | | 1 | | THOMAS ANDERS | SEN | |

| THIS CERTIFICATE IS USUED. AS A MATTER OF INFORMATION ONLY AND COMERGE NO. RIGHTE UPON THE CERTIFICATE TO CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), REPRESENTATIVE OR PODUCER, NOT THE CONTRACT DETWEEN THE ISSUING INSURER(S), REPRESENTATIVE OR PODUCER, NOT THE CERTIFICATE HOLDER. IMPORTANT. If the conflicate holder is an ADDITIONAL INSURED, the policy(les) must have ADDITIONAL INSURED provisions or b SUBBORDATION IS WAVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A state domain is wavee and control in the other and conditions of the policy (les) must have ADDITIONAL INSURED provisions or b SUBBORDATION IS WAVED, subject to the terms and conditions of the policy (les) must have ADDITIONAL INSURED provisions or b SUBBORDATION IS WAVED, subject to the terms and conditions of the policy (les) must have ADDITIONAL INSURED provisions or b SUBBORDATION IS WAVED, subject to the terms and conditions of the policy (les) must have ADDITIONAL INSURED provisions or b SUBBORDATION IS WAVED, subject to the terms and conditions of the policy (les) must have ADDITIONAL INSURED provisions or b SUBBORDATION IS WAVED, subject to ADITIONAL INSURED INTERCOMPACE INSUED TO THE INSURE CONTRACT OR THE TO CONTRACT OR THE TO CONTRACT OR THE TO CONTRACT OR THE TO CONTRACT OR THE INSURED INTERCOMPACE INSUED TO THE INSURED INTERCOMPACE INSUED TO THE INSURED INTERCOMPACE INSUED TO THE INSUERD INTERCOMPACE I | TE(MM/DD/YYYY) 09/10/2020 |
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| IMPORTANT. If the certificate holder is an ADDITIONAL INSURED, the policy(les) must have ADDITIONAL INSURED provisions or the policy, certain policies may require an endorsement. A state entiticate does not confer rights to the certificate holder in lieu of such endorsement(s). PRODUCER Confer rights to the certificate holder in lieu of such endorsement(s). Ann Risk Insurance Services West, Inc. Confer rights to the certificate holder in lieu of such endorsement(s). State 2000 Insurance Services West, Inc. Confer rights to the certificate holder in lieu of such endorsement(s). State 2000 Insurance Services West, Inc. Confer rights to the certificate holder in lieu of such endorsement(s). State 2000 Insure Risk Insurance Services West, Inc. Insure Risk Insurance Services West, Inc. Los Angeles CA 90017-0460 USA Insure Risk Insu | iolder. This The Policies Authorized |
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| novisions as required by written contract. Stop gap coverage for the rorrowing states. On, ND, WA, WT. | |
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| ERTIFICATE HOLDER CANCELLATION | |
| SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED EXPIRATION DATE THEREOF. NOTICE WILL BE DELIVERED IN ACCORDAN | BEFORE THE |
| POLICY PROVISIONS. | |
| Town of Palm Beach Florida AUTHORIZED REPRESENTATIVE | |
| Palm Beach FL 33480 USA | 7 |
| Aon Risk Insurance Services West I | na. |
| | |
| | |

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BLANKET NOTIFICATION TO OTHERS OF CANCELLATION OR NONRENEWAL ENDORSEMENT

This endorsement adds the following to Part Six of the policy.

PART SIX CONDITIONS

Blanket Notification to Others of Cancellation or Nonrenewal

- 1. If we cancel or non-renew this policy by written notice to you, we will mail or deliver notification that such policy has been cancelled or non-renewed to each person or organization shown in a list provided to us by you if you are required by written contract or written agreement to provide such notification. However, such notification will not be mailed or delivered if a conditional notice of renewal has been sent to you. Such list:
 - a. Must be provided to us prior to cancellation or non-renewal;
 - b. Must contain the names and addresses of only the persons or organizations requiring notification that such policy has been cancelled or non-renewed; and
 - c. Must be in an electronic format that is acceptable to us.
- Our notification as described in Paragraph 1. above will be based on the most recent list in our records as of the date the notice of cancellation or non-renewal is mailed or delivered to you. We will mail or deliver such notification to each person or organization shown in the list:
 - a. Within seven days of the effective date of the notice of cancellation, if we cancel for non-payment of premium; or
 - b. At least 30 days prior to the effective date of:
 - (1) Cancellation, if cancelled for any reason other than nonpayment of premium; or
 - (2) Non-renewal, but not including conditional notice of renewal.
- 3. Our mailing or delivery of notification described in Paragraphs 1. and 2. above is intended as a courtesy only. Our failure to provide such mailing or delivery will not:
 - a. Extend the policy cancellation or non-renewal date;
 - b. Negate the cancellation or non-renewal; or
 - c. Provide any additional insurance that would not have been provided in the absence of this endorsement.
- 4. We are not responsible for the accuracy, integrity, timeliness and validity of information contained in the list provided to us as described in Paragraphs 1. and 2. above.

All other terms and conditions of this policy remain unchanged.

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated. (The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

| Endorsement Effective | Policy No. | Endorsement No. |
|-----------------------|---------------|-----------------|
| Insured | WC 1857087-01 | Premium \$ |

Insurance Company

| ZURICH | AMERICAN | INSURANCE | COMPANY |
|--------|----------|-----------|---------|
| | | | |



Blanket Notification to Others of Cancellation or Non-Renewal

| Policy No. | Eff. Date of Pol. | Exp. Date of Pol. | Eff. Date of End. | Producer No. | Add'l. Prem | Return Prem. |
|----------------|-------------------|-------------------|-------------------|--------------|-------------|--------------|
| GLO 1817406-01 | 10/01/2019 | 10/01/2020 | | 75272000 | INCL | |

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the:

Commercial General Liability Coverage Part

- A. If we cancel or non-renew this Coverage Part by written notice to the first Named Insured, we will mail or deliver notification that such Coverage Part has been cancelled or non-renewed to each person or organization shown in a list provided to us by the first Named Insured if you are required by written contact or written agreement to provide such notification. However, such notification will not be mailed or delivered if a conditional notice of renewal has been sent to the first Named Insured. Such list:
 - 1. Must be provided to us prior to cancellation or non-renewal;
 - 2. Must contain the names and addresses of only the persons or organizations requiring notification that such Coverage Part has been cancelled or non-renewed; and
 - 3. Must be in an electronic format that is acceptable to us.
- **B.** Our notification as described in Paragraph **A.** of this endorsement will be based on the most recent list in our records as of the date the notice of cancellation or non-renewal is mailed or delivered to the first Named Insured. We will mail or deliver such notification to each person or organization shown in the list:
 - 1. Within seven days of the effective date of the notice of cancellation, if we cancel for non-payment of premium; or
 - 2. At least 30 days prior to the effective date of:
 - a. Cancellation, if cancelled for any reason other than nonpayment of premium; or
 - b. Non-renewal, but not including conditional notice of renewal.
- **C.** Our mailing or delivery of notification described in Paragraphs **A.** and **B.** of this endorsement is intended as a courtesy only. Our failure to provide such mailing or delivery will not:
 - 1. Extend the Coverage Part cancellation or non-renewal date;
 - 2. Negate the cancellation or non-renewal; or
 - 3. Provide any additional insurance that would not have been provided in the absence of this endorsement.
- **D.** We are not responsible for the accuracy, integrity, timeliness and validity of information contained in the list provided to us as described in Paragraphs **A.** and **B.** of this endorsement.

All other terms and conditions of this policy remain unchanged.



Blanket Notification to Others of Cancellation or Non-Renewal

| Policy No. | Eff. Date of Pol. | Exp. Date of Pol. | Eff. Date of End. | Producer No. | Add'l. Prem | Return Prem. |
|----------------|-------------------|-------------------|-------------------|--------------|-------------|--------------|
| BAP 1857085-01 | 10/01/2019 | 10/01/2020 | | 75272000 | INCL | |

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

This endorsement modifies insurance provided under the:

Commercial Automobile Coverage Part

- A. If we cancel or non-renew this Coverage Part by written notice to the first Named Insured, we will mail or deliver notification that such Coverage Part has been cancelled or non-renewed to each person or organization shown in a list provided to us by the first Named Insured if you are required by written contact or written agreement to provide such notification. However, such notification will not be mailed or delivered if a conditional notice of renewal has been sent to the first Named Insured. Such list:
 - 1. Must be provided to us prior to cancellation or non-renewal;
 - 2. Must contain the names and addresses of only the persons or organizations requiring notification that such Coverage Part has been cancelled or non-renewed; and
 - 3. Must be in an electronic format that is acceptable to us.
- **B.** Our notification as described in Paragraph **A.** of this endorsement will be based on the most recent list in our records as of the date the notice of cancellation or non-renewal is mailed or delivered to the first Named Insured. We will mail or deliver such notification to each person or organization shown in the list:
 - 1. Within seven days of the effective date of the notice of cancellation, if we cancel for non-payment of premium; or
 - 2. At least 30 days prior to the effective date of:
 - a. Cancellation, if cancelled for any reason other than nonpayment of premium; or
 - b. Non-renewal, but not including conditional notice of renewal.
- **C.** Our mailing or delivery of notification described in Paragraphs **A.** and **B.** of this endorsement is intended as a courtesy only. Our failure to provide such mailing or delivery will not:
 - 1. Extend the Coverage Part cancellation or non-renewal date;
 - 2. Negate the cancellation or non-renewal; or
 - 3. Provide any additional insurance that would not have been provided in the absence of this endorsement.
- **D.** We are not responsible for the accuracy, integrity, timeliness and validity of information contained in the list provided to us as described in Paragraphs **A.** and **B.** of this endorsement.

All other terms and conditions of this policy remain unchanged.

BLANKET NOTIFICATION TO OTHERS OF CANCELLATION OR NONRENEWAL ENDORSEMENT

This endorsement adds the following to Part Six of the policy.

PART SIX CONDITIONS

Blanket Notification to Others of Cancellation or Nonrenewal

- 1. If we cancel or non-renew this policy by written notice to you, we will mail or deliver notification that such policy has been cancelled or non-renewed to each person or organization shown in a list provided to us by you if you are required by written contract or written agreement to provide such notification. However, such notification will not be mailed or delivered if a conditional notice of renewal has been sent to you. Such list:
 - a. Must be provided to us prior to cancellation or non-renewal;
 - b. Must contain the names and addresses of only the persons or organizations requiring notification that such policy has been cancelled or non-renewed; and
 - c. Must be in an electronic format that is acceptable to us.
- Our notification as described in Paragraph 1. above will be based on the most recent list in our records as of the date the notice of cancellation or non-renewal is mailed or delivered to you. We will mail or deliver such notification to each person or organization shown in the list:
 - a. Within seven days of the effective date of the notice of cancellation, if we cancel for non-payment of premium; or
 - b. At least 30 days prior to the effective date of:
 - (1) Cancellation, if cancelled for any reason other than nonpayment of premium; or
 - (2) Non-renewal, but not including conditional notice of renewal.
- 3. Our mailing or delivery of notification described in Paragraphs 1. and 2. above is intended as a courtesy only. Our failure to provide such mailing or delivery will not:
 - a. Extend the policy cancellation or non-renewal date;
 - b. Negate the cancellation or non-renewal; or
 - c. Provide any additional insurance that would not have been provided in the absence of this endorsement.
- 4. We are not responsible for the accuracy, integrity, timeliness and validity of information contained in the list provided to us as described in Paragraphs 1. and 2. above.

All other terms and conditions of this policy remain unchanged.

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated. (The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

| Endorsement Effective | Policy No. | Endorsement No. |
|-----------------------|-------------------|-----------------|
| Insured | WC 2540616-01 | Premium \$ |
| | | |

Insurance Company

ENDORSEMENT

This endorsement, effective 12:01 AM 10/01/2019

Forms a part of policy no.: 028182375

Issued to: TETRA TECH, INC., ET AL

By: LEXINGTON INSURANCE COMPANY

ADVICE OF CANCELLATION TO ENTITIES OTHER THAN THE NAMED INSURED LIMITED TO E-MAIL NOTIFICATION

This policy is amended as follows:

In the event that the Insurer cancels this policy for any reason other than non payment of premium, and

- 1. The cancellation effective date is prior to this policy's expiration date;
- The First Named Insured is under an existing contractual obligation to notify a certificate holder when this policy is canceled (hereinafter, the "Certificate Holder(s)"); and has provided to the Insurer, either directly or through its broker of record, the email address of the contact at such entity,

and the Insurer received this information after the First Named Insured receives notice of cancellation of this policy and prior to this policy's cancellation effective date, via an electronic spreadsheet that is acceptable to the Insurer,

the Insurer will provide advice of cancellation (the "Advice") via e-mail to such Certificate Holders.

Proof of the **Insurer** emailing the Advice, using the information provided by the **First Named Insured**, will serve as proof that the **Insurer** has fully satisfied its obligations under this endorsement.

This endorsement does not affect, in any way, coverage provided under this policy or the cancellation of this policy or the effective date thereof, nor shall this endorsement invest any rights in any entity not insured under this policy.

The following Definitions apply to this endorsement:

- 1. First Named Insured means the Named Insured shown on the Declarations Page of this policy.
- 2. Insurer means the insurance company shown in the header on the Declarations Page of this policy.

All other terms, conditions and exclusions shall remain the same.

| TH | ACORD [®] CERTIFICATE OF LIABILITY INSURANCE | | | | | | | DATE(MM/DD/YYYY) 02/13/2020 | | |
|---|--|---|---|---|--|--|--|--|--|--|
| CE TH RE | IIS CERTIFICATE IS ISSUED AS A RTIFICATE DOES NOT AFFIRMATIVE IIS CERTIFICATE OF INSURANCI PRESENTATIVE OR PRODUCER, AND TH | MAT E D E D | TER OF INFORMATION R NEGATIVELY AMEND, OES NOT CONSTITUT RTIFICATE HOLDER. | ONLY AND EXTEND OR TE A COM | CONFERS M R ALTER THI NTRACT BE | IO RIGHTS E COVERAGI TWEEN TH | UPON THE CERTIFIC E AFFORDED BY THE E ISSUING INSURE | CATE HOLDER. THIS E POLICIES BELOW. ER(S), AUTHORIZED | | |
| IM SU ce | PORTANT: If the certificate holder is JBROGATION IS WAIVED, subject to rtificate does not confer rights to the certi | s an the ificate | ADDITIONAL INSURED, terms and conditions of holder in lieu of such endor | the policy(ies of the policy, rsement(s). | s) must have , certain poli | ADDITIONAL | INSURED provisions quire an endorsement. | or be endorsed. If A statement on this | | |
| PRODI | | incute | | CONTACT | т | | | | | |
| Aon | Risk Services, Inc of Florida | | | NAME: PHONE | (866) | 283_7122 | FAX 800- | -363-0105 | | |
| 7650 Courtney Campbell Causeway | | | | | (A/C. No. Ext): (800) 203-7122 (A/C. No.): (800-303-1 | | | | | |
| Tamp | pa FL 33607 USA | | | ADDRES | SS: | | | | | |
| | | | | | И | ISURER(S) AFFO | RDING COVERAGE | NAIC # | | |
| | | | | | ETCUE | MA The S | elf-Insured Fund | 025941 | | |
| INSURED Nova Southeastern University, Inc. | | | | | INSURER A: FICURMA, INC. Sett-Insured Fund | | | | | |
| 301 F | L College Ave | | | INSURER | 2.C: | | | | | |
| ι. | Lauderdate PL 33314 03A | | | INSURER | 2 D. | | | | | |
| | | | | INSURER | | | | | | |
| | | | | INGURER | · _· | | | | | |
| ov | ERAGES CFR | TIFICA | ATE NUMBER: 570080 | 525187 | | RF | | ļ | | |
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| INE | DICATED. NOTWITHSTANDING ANY REC | | MENT, TERM OR CONDIT | ION OF ANY | CONTRACT | OR OTHER I | DOCUMENT WITH RESP | PECT TO WHICH THIS | | |
| EX | CLUSIONS AND CONDITIONS OF SUCH PO | LICIES | AIN, THE INSURANCE AF 3. LIMITS SHOWN MAY HAVE | BEEN REDUCE | D BY PAID CLA | DESCRIBED | IEREIN IS SUBJECT | IU ALL THE TERMS | | |
| R | | ADDL | | IBER | POLICY EFF | POLICY EXP | | MITS | | |
| ĸ | | INSD | 000217012000003 | 0129462018 | 12/01/2018 | 12/01/2019 | EACH OCCURRENCE | \$1.000.00 | | |
| | | | (Self-Insured F | und) | | | DAMAGE TO RENTED | \$1.000.00 | | |
| | | | | | | | PREMISES (Ea occurrence) | | | |
| | | - | | | | | MED EXP (Any one person) | \$2,000,00 | | |
| | | - | | | | | | \$2,000,00 | | |
| | | | | | | | | \$2,000,00 | | |
| | | | | | | | PRODUCTS - COMP/OP AGG | \$2,000,00 | | |
| _ | OTHER: | | 000217012000003 | 0120462018 | 12/01/2018 | 12/01/2010 | | | | |
| | AUTOMOBILE LIABILITY | ' | (Self-Insured F | (und) | 12/01/2018 | 12/01/2019 | (Ea accident) | \$1,000,00 | | |
| | X ANY AUTO | | | | | | BODILY INJURY (Per person) | | | |
| | OWNED SCHEDULED | | | | | | BODILY INJURY (Per accident) | | | |
| | AUTOS ONLY HIRED AUTOS NON-OWNED | | | | | | PROPERTY DAMAGE | | | |
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| | | | | | | | AGGREGATE | | | |
| | UMBRELLA LIAB OCCUR | | | | | | | | | |
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| ACORD [®] CERTIFICATE OF LIABILITY INSURANCE | | | | | | | DATE(MM/DD/YYYY) 02/13/2020 | |
|--|------------------------|--|--|-------------------------------------|-------------------------------------|---|--|--|
| THIS CERTIFICATE IS ISSUED AS A CERTIFICATE DOES NOT AFFIRMATIVEL THIS CERTIFICATE OF INSURANCE REPRESENTATIVE OR PRODUCER, AND THE | MATT Y OR DO | TER OF INFORMATION R NEGATIVELY AMEND, DES NOT CONSTITUT TIFICATE HOLDER. | ONLY AND EXTEND OR E A COM | CONFERS I ALTER TH NTRACT BE | NO RIGHTS E COVERAG ETWEEN TH | UPON THE CERTIFIC E AFFORDED BY THE IE ISSUING INSURE | ATE HOLDER. THIS E POLICIES BELOW. ER(S), AUTHORIZED | |
| IMPORTANT: If the certificate holder is SUBROGATION IS WAIVED, subject to certificate does not confer rights to the certifi | an / the icate h | ADDITIONAL INSURED, t terms and conditions o nolder in lieu of such endors | he policy(ies f the policy, sement(s). |) must have certain poli | e ADDITIONA cies may re | L INSURED provisions quire an endorsement. | or be endorsed. If A statement on this | |
| | cate n | | CONTAC [®] | г | | | | |
| on Risk Services, Inc of Florida | | | NAME: PHONE | (866) | 283-7122 | FAX 800- | -363-0105 | |
| 550 Courtney Campbell Causeway | (A/C. No. | 505 0105 | | | | | | |
| ampa FL 33607 USA | | | ADDRES | S: | | | | |
| | | | | | SURER(S) AFFO | RDING COVERAGE | NAIC # | |
| | | | | . ETCU | | alf_Insurad Fund | 025041 | |
| ova Southeastern University, Inc. | INSURER | 02JJAL | | | | | | |
| 301 College Ave | | | INSUDER | с: | | | | |
| L. Lauderdate FL 55514 USA | | | INSURER | n. | | | | |
| | | | INCURER | E. | | | | |
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| | IFICAT | | 25179 | | P | | | |
| THIS IS TO CERTIFY THAT THE POLICIES | OF II | INSURANCE LISTED BEI ON | W HAVE BEF | N ISSUED TO |) THE INSUR | ED NAMED ABOVE FOR | THE POLICY PERIOD | |
| INDICATED. NOTWITHSTANDING ANY REQU | JIREM | ENT, TERM OR CONDITION | ON OF ANY | CONTRACT | OR OTHER | DOCUMENT WITH RESP | ECT TO WHICH THIS | |
| CERTIFICATE MAY BE ISSUED OR MAY F EXCLUSIONS AND CONDITIONS OF SUCH POLI | PERTA | NIN, THE INSURANCE AFF | ORDED BY BEEN REDUCE | THE POLICIES D BY PAID CLA | S DESCRIBED | U HEREIN IS SUBJECT | IU ALL THE TERMS, | |
| | ADDL | SUBR DOLLCY MUMP | FR | POLICY EFF | POLICY EXP | LIM | nto onown are as requested | |
| | INSD | 0002170120000030 |)129462019 | (<u>MM/DD/YYYY</u>) 12/01/2019 | (MM/DD/YYYY) 12/01/2020 | | \$1.000.000 | |
| | | (Self-Insured Fu | ind) | | | DAMAGE TO RENTED | \$1,000,000 | |
| | | | | | | PREMISES (Ea occurrence) | | |
| | | | | | | | \$2,000,000 | |
| | | | | | | | \$2,000,000 | |
| GEN'L AGGREGATE LIMIT APPLIES PER: | | | | | | | \$2,000,000 | |
| | | | | | | PRODUCTS - COMP/OP AGG | \$2,000,000 | |
| OTHER: | v | 000217012000030 | 120/62010 | 12/01/2010 | 12/01/2020 | | | |
| AUTOMOBILE LIABILITY | ' | (Self-Insured Fu | ind) | 12/01/2019 | | (Ea accident) | \$1,000,000 | |
| X ANY AUTO | | | | | | BODILY INJURY (Per person) | | |
| OWNED SCHEDULED | | | | | | BODILY INJURY (Per accident) | | |
| AUTOS ONLY HIRED AUTOS NON-OWNED | | | | | | PROPERTY DAMAGE | | |
| ONLY AUTOS ONLY | | | | | | | | |
| | | | | | | EACH OCCURRENCE | | |
| | | | | | | AGGREGATE | | |
| EXCESS LIAB CLAIMS-MADE | | | | | | | | |
| | | 000217012000030 | 120/62010 | 12/01/2019 | 12/01/2020 | | | |
| EMPLOYERS' LIABILITY Y/N | | (Self-Insured Fu | ind) | | | X PERSIAIOIE OII | H | |
| ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? | N/A | | | | | E.L. EACH ACCIDENT | \$500,000 | |
| (Mandatory in NH) | | | | | | E.L. DISEASE-EA EMPLOYEE | \$500,000 | |
| DESCRIPTION OF OPERATIONS below | | | | | | E.L. DISEASE-POLICY LIMIT | \$500,000 | |
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| CRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACO | RD 101, / | Additional Remarks Schedule, may be | e attached if more s | space is required) | 1 | | - | |
| : Subconsultant General Services | Cons | sulting Agreement ba | sed on Tow | n of Palm H | Beach RFQ N | lo 2014-003. Coasta | al Eco-Group and | |
| licy. The Workers' Compensation | polic | cy evidenced herein | provides c | overage sub | ject to th | ie Longshoremen's a | nd Harbor Workers' | |
| npensation Act. | | | | | | | | |
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| Coastal Eco-Group. Inc. | | ł | | DRESENTATIVE | | | | |
| 665 SE 10th St., Suite 104 | | | AUTHURIZED RE | RESENTATIVE | | | | |
| Deertield Beach FL 33441 USA | 4 | | <u>م</u> | 1 60 | 10 | . I pe | To . 1 | |
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THE VILLAGE OF NORTH PALM BEACH 2020-2021 BUSINESS TAX RECEIPTS





COASTAL ECO GROUP INC 513 US HIGHWAY 1 SUITE 215 NORTH PALM BEACH, FL 33408



ANNE M. GANNON CONSTITUTIONAL TAX COLLECTOR Serving Palm Beach County

Serving you.

P.O. Box 3353, West Palm Beach, FL 33402-3353 www.pbctax.com Tel: (561) 355-2264 **LOCATED AT**

513 US HIGHWAY 1 Ste 215 NORTH PALM BEACH, FL 33408

| TYPE OF BUSINESS | OWNER | CERTIFICATION # | RECEIPT #/DATE PAID | AMT PAID | BILL # |
|-----------------------------|-----------------------|-----------------|-----------------------|----------|-----------|
| 54-0093 CONSULTING BUSINESS | COASTAL ECO GROUP INC | | B20.525622 - 07/08/20 | \$33.00 | B40180816 |

This document is valid only when receipted by the Tax Collector's Office.

STATE OF FLORIDA PALM BEACH COUNTY 2020/2021 LOCAL BUSINESS TAX RECEIPT

LBTR Number: 2019118346 EXPIRES: SEPTEMBER 30, 2021

This receipt grants the privilege of engaging in or managing any business profession or occupation within its jurisdiction and MUST be conspicuously displayed at the place of business and in such a manner as to be open to the view of the public. Dear Business Owner:

Your new local business tax receipt is on the reverse side. Verify this information and display it conspicuously at your place of business, open to the view of the public.

This receipt is in addition to and not in lieu of any license or receipt required by law or city ordinance and is subject to regulations of zoning, health and any other lawful authority (County Ordinance Number 17-17)

- Receipts may be transferred to a new owner when evidence of a sale is provided, the original receipt must be surrendered and a transfer fee is required.
- Receipts may be transferred to a new location when proof of zoning approval is provided, the original receipt must be surrendered and a transfer fee is required.
- A business name change requires a new Local Business Tax Receipt. Therefore a new LOCAL BUSINESS TAX APPLICATION, (PBCTC FORM #65), proof of business name change registration with the state and proper fees would be required.

This receipt expires on September 30, 2021. Renewal notices are sent at the end of June. If you do not receive a notice by the end of July, please contact our office.

I hope you have a successful year.

anne M. Hannon

Constitutional Tax Collector, Serving Palm Beach County