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8.0 ABBREVIATIONS

ADCP	Acoustic Doppler Current Profiler
AUV	autonomous undersea vehicle
BA	Biological Assessment
CAA	Clean Air Act
cc	cubic centimeter
CERC	Columbia Environmental Research Center
CFR	Code of Federal Regulations
CSA	Continental Shelf Associates, Inc.
dB	decibel
DEIS	Draft Environmental Impact Statement
DO	dissolved oxygen
DOI	Department of the Interior
EFH	Essential Fish Habitat
EO	Executive Order
EPA	U.S. Environmental Protection Agency
FACDAR	forward area combined degaussing and acoustic range

FDEP	Florida Department of Environmental Protection
FEIS	Final Environmental Impact Statement
FFWCC	Florida Fish and Wildlife Conservation Commission
FMC	Fishery Management Council
FMP	Fishery Management Plan
ft	foot
g	gram
GEC	Gulf Engineers and Consultants, Inc.
HAPC	Habitat Areas of Particular Concern
HURDAT	Hurricane Database
Hz	Hertz
ICWW	Intracoastal Waterway
IDEA	interim depth electromagnetic array
km	kilometer
l	liter
m	meter
m ²	square meter
Ma	million years ago
mg	milligram
mm	millimeter
MMS	Minerals Management Service
MPRSA	Marine Protection, Research, and Sanctuaries Act
NAAQS	National Ambient Air Quality Standard
NEPA	National Environmental Policy Act
NMFS	National Marine Fisheries Service
nmi	nautical mile
NOAA	National Oceanic and Atmospheric Administration
NRC	National Research Council
NTU	nephelometric turbidity unit
ODMDS	Ocean Dredged Material Disposal Site
OPA	Office of Public Affairs
OSCAR	Ocean Current Surface Radar
Pa	Pascale
PCB	polychlorinated biphenyl

PCS	Permit Compliance System
PL	Public Law
ppb	parts per pillion
PPB	PPB Environmental Labs, LLC
RIM	Regional Implemental Manual
SAFMC	South Atlantic Fishery Management Council
SFOMC	South Florida Ocean Management Center
SFTF	South Florida Testing Facility
SMMP	Site Management and Monitoring Plans
sp.	species
STFATE	short-term fate
SWAR	shallow water acoustic range
SWER	shallow water electromagnetic range
TPH	total petroleum hydrocarbon
USACE	U.S. Army Corps of Engineers
USC	U.S. Congress
USFWS	U.S. Fish and Wildlife Service
WES	Waterways Experiment Station
WRDA	Water Resource Development Act
µg	microgram

9.0 GLOSSARY

Adverse Impact - A detrimental effect relative to desired or baseline conditions.

Affected Environment - Existing biological, physical, social and economic conditions of an area subject to change, both directly and indirectly, as a result of a proposed human action.

Air Quality - A measure of the health-related and visual characteristics of the air, often derived from quantitative measurements of the concentrations of contaminating or injurious substances.

Aquatic - Consisting of, relating to or being in water; living or growing in, on or near the water; or taking place in or on the water.

Authorization - An act by the U.S. Congress that authorizes use of public funds to carry out a prescribed action.

Bathymetry - A detailed, precise description of an underwater place or region; or the graphic representation of the surface features of an underwater place or region on a map, indicating its relative position and elevations.

Benthic - The bottom of rivers, lakes or oceans, and the organisms that live on the bottom of water bodies.

Biodiversity - The number and variety of organisms found within a specified geographic region; or the variability among living organisms on the earth, including the variability within and between species and within and between ecosystems.

Biological Assessment (BA) - A biological evaluation conducted for major Federal construction projects requiring an Environmental Impact Statement. BAs are developed to assess probable impacts of USFWS projects to Federally listed species.

Carbonate - sedimentary rock composed primarily of calcium carbonate, usually formed by chemical precipitation

Critical Habitat - A description, which may be contained in a Biological Assessment, of the specific areas with physical or biological features essential to the conservation of a listed species and which may require special management considerations or protection; these areas have been legally designated via Federal Register notices.

Cumulative impacts - Impacts on the environment resulting from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (federal or non-federal) or person undertakes such actions.

Density - The mass per unit volume of a substance under specified conditions of pressure and temperature.

Discharge - The rate of water movement as volume per unit time, usually expressed as cubic feet per second.

Dissolved Oxygen (DO) - The concentration of oxygen dissolved in water, sometimes expressed as percent saturation, where saturation is the maximum amount of oxygen that theoretically can be dissolved in water at a given altitude and temperature.

Dredged material- Material excavated from waters of the United States or ocean waters.

Ecology - The science of the relationships between organisms and their environments, also called bionomics; or the relationship between organisms and their environment.

Ecosystem - An ecological community together with its environment, functioning as a unit.

Endangered Species - Any species or subspecies of amphibian, bird, fish, mammal, reptile or plant that is in serious danger of becoming extinct throughout all or a significant portion of its range.

Environmental Impact Statement - A detailed written statement that documents the proposed action, alternatives to the proposed action, the characteristics of the environment that is potentially affected by the proposed action, and the environmental consequences of implementing each alternative.

Feasibility Study - The phase of a project whose purpose is to describe and evaluate alternative plans and fully describe a recommended project.

Federally Endangered Species - An Endangered Species which is officially designated by the U.S. Fish and Wildlife Service or the National Marine Fisheries Service and published in the Federal Register.

Habitat - The area or environment where an organism or ecological community normally lives or occurs.

Hardgrounds - synsedimentarily lithified carbonate seafloors.

Infauna - Animals that live within the sediment of the ocean bottom.

Invertebrate - An animal that does not have a backbone; examples include crayfish, insects and mollusks.

Juvenile - A young organism older than one year but not having reached reproductive age.

Larva - an embryo that differs markedly in appearance from adult members of its species and becomes self-sustaining before assuming the physical characteristics of its adult form.

Latitude - The angular distance north or south of the earth's equator, measured in degrees along a meridian.

Limnology - The scientific study of the physical characteristics and biology of lakes, streams and ponds.

Local sponsor - The entity that is partnering with the Federal Government to complete a specific project or program.

Longitude - The angular distance on the earth's surface, measured east or west from the prime meridian at Greenwich, England, to the meridian passing through a position, expressed in degrees (or hours), minutes and seconds.

Mitigation - To make less severe; to alleviate, diminish or lessen.

Model - A way of looking at reality, usually for the purpose of abstracting and simplifying it to make it understandable in a particular context; this may be a plan to describe how a project will be completed, or a tool to mathematically represent a process which could be based upon empirical or mathematical functions.

Monitoring - The capture, analysis and reporting of project performance, usually as compared to plan.

Nutrients - Elements essential as raw materials for the growth of an organism.

Objective - A goal expressed in specific, directly measurable terms.

Ocean disposal - placement of dredged material in oceans via pipeline or surface release from hopper dredgers or barges.

Ocean Dredged Material Disposal Site (ODMDS) - a site in the ocean designated by the EPA for the reception of dredged material.

PCB - Polychlorinated biphenyls, a group of organic compounds used in the manufacture of plastics. PCBs are highly toxic to aquatic life, are biologically accumulative, and persist in the environment for long periods of time.

Project - A sequence of tasks with a beginning and an end that uses time and resources to produce specific results.

Project area - An area subject to change, both directly and indirectly, as a result of a proposed human action, or project.

Public Involvement - The process of obtaining citizen input into each stage of the development of planning documents, and which is required as a major input into any environmental impact statement.

Quality Assurance - The process of evaluating overall project performance on a regular basis to provide confidence that the project will satisfy the relevant quality standards.

Record of Decision - A concise, public legal document which identifies publicly and officially discloses the responsible official's decision on the alternative selected for implementation; prepared following completion of an Environmental Impact Statement.

Reef - A resistant ridge of calcium carbonate formed on the seafloor by corals and coralline algae.

Scope - The sum of the products and services, in fact the magnitude of the effort, required to complete a project.

Scoping - The process of defining the extent and content of a study, primarily with respect to the issues, geographic area and alternatives to be considered.

Sediment - The layer of soil, sand, and/or rock fragments at the bottom of waterbodies.

Threatened Species - Legal status afforded to plant or animal species that are likely to become endangered within the foreseeable future throughout all or a significant portion of their range, as determined by the U.S. Fish and Wildlife Service or the National Marine Fisheries Service.

Tide - The periodic variation in the surface level of the oceans and of bays, gulfs, inlets and estuaries caused by gravitational attraction of the moon and sun.

Turbidity - An optical measure of the amount of material suspended in the water column. Increases in turbidity decrease the amount of light that penetrates the water column.

Water Quality - A measure of the health-related and visual characteristics of the water, often derived from quantitative measurements of the concentrations of contaminating or injurious substances.

Water Resources Development Act (WRDA) - Legislation that provides for the conservation and development of water and related resources and authorizes the Secretary of the Army to construct various projects for improvements to rivers and harbors of the United States, and for other purposes deemed appropriate by the U.S. Congress and the President of the United States.

10.0 CONVERSION FACTORS

<u>Unit</u>	<u>Conversion Unit</u>	<u>Conversion Factor</u>
acres	ft ²	43560
acres	m ²	4046.9
atmospheres (atm)	feet of water	33.94
atmospheres	in of Hg	29.92
atmospheres	mm of Hg	760
atmospheres	psi	14.7
bar	atm	.98692
bar	dyne cm ⁻²	10 ⁶
bar	psi (lb in ⁻²)	14.5038
bar	mm Hg	750.06
bar	MPa	10 ⁻¹
barrel (bbl)	ft ³	5.6146
barrel	m ³	.15898
barrel	gal (US)	42
barrel	liter	158.9
centimeter (cm)	inch	0.39370
cm	m	10 ⁻²
fathom (fath)	ft	6
feet (ft)	in	12
feet	m	0.3048
furlong	yd	220
gallon (US) (gal)	in ³	231
gallon	liter	3.78541
gallon (Imp.) (gal)	in ³	277.419
gallon	liter	4.54608
gram (g)	pound	0.0022046
gram	kg	10 ⁻³
hectare	acre	2.47105
hectare	cm ²	10 ⁸

<u>Unit</u>	<u>Conversion Unit</u>	<u>Conversion Factor</u>
inch (in)	cm	2.54
inch (in)	mm	25.4
kilogram (kg)	g	10 ³
kilogram	pound	2.20462
kilometer (km)	m	10 ³
kilometer	ft	3280.84
kilometer	mile	0.621371
knot	mph	1.150779
liter	cm ³	10 ³
liter	gal (US)	0.26417
liter	in ³	61.0237
meter	angstrom	1 x 10 ¹⁰
meter	ft	3.28084
micron	cm	10 ⁻⁴
mile	ft	5280
mile	km	1.60934
mile	nautical mile	0.8689741
nautical mile	mile	1.150782
ounce	lb	0.0625
Pascal	atmospheres	9.86923 * 10 ⁻⁶
Pascal	psi	1.45 * 10 ⁻⁴
Pascal	torr	7.501 * 10 ⁻³
pint	gallon	0.125
pound (lbm)	kg	0.453592
pound (lbf)	newton	4.4475
quart	gallon	0.25
ton (long)	lb	2240
ton (Metric)	lb	2205
ton (Metric)	kg	1000
ton (short or net)	lb	2000
ton (short or net)	kg	907.185
ton (short or net)	ton (Metric)	.907
yard	in	36
yard	m	0.9144
year (cal)	days	365.242198781
year (cal)	s	3.15576 x 10 ⁷