

**SECTION 11.0**  
**GLOSSARY OF TERMS, ACRONYMS AND ABBREVIATIONS,**  
**AND CONVERSION TABLES**

**11.1 GLOSSARY**

**Ameliorate** – to improve.

**Appurtenant** – auxiliary, accessory

**Aquatic Life Criteria** – standards used to compare the levels of a certain pollutant in its relationship with aquatic organisms.

**Bioaccumulation** – the process by which wastes and toxic chemicals gradually accumulate in living tissue.

**Bioassay** – method by which the strength of a substance is determined by comparing the effects on a test organism with that of a standard preparation.

**Bioavailable** – a form in which a chemical is can be absorbed into the tissues of an organism.

**Biochemical Pathways** – chemical processes within a living organism.

**Biodilution** – the process by which a substance is diluted in living tissue.

**Biodiversity** – abundance and variety of living organisms within an area.

**Biomass** – the total number of living organism in a particular area.

**Biota** – the plant and animal life of a region.

**Capillary Action** – water being elevated into the pores of soils above the free water table.

**Carbonate Production** – the ability of a soil type to produce elements such as limestone, etc.

**Catalytic Converter** – a device containing a catalyst for converting automobile exhaust into mostly harmless products.

**Categorical Exclusion** - occurs when a project will not have a significant impact on the environment or natural resources.

**Type I Categorical Exclusion** - occurs when a project does not lead directly to construction, etc.

**Programmatic Categorical Exclusion** - occurs when a project does not include adding turning lanes, roadways, upgrading guardrails, etc.

**Clastic Incursions** – a brief invasion of fragments of older rock.

**Cold Starts** - the ignition of an engine after a reasonable time for that engine to cool.

**Coliforms** – aerobic bacteria found in the colon.

**Contiguous** – adjacent.

**Critical Habitat** – specific habitat that is essential for the conservation of a species.

**Endangered Species** – a species identified and defined in the Federal Registry in accordance with the Endangered Species Act of 1976.

**Environmental Justice** - a term used to describe any disproportionately high and adverse affects of federal agency activities and programs on minority and low-income populations within a project area.

**Evapotranspiration** – the total water loss from the soil.

**Exacerbate** – to irritate or aggravate.

**Fauna** – animal life.

**Flora** – plant life.

**Flow Rate** - the number of items per unit of time.

**Flowage Easements** - easements acquired for the right to manipulate water levels in a certain area.

**Habitat Fragmentation** - the splitting of natural ecosystems into smaller, isolated units.

**Home Range** – the area covered by the normal annual mobility of a wildlife species.

**Hydroperiod** – the length of time an area is inundated with water.

**Indicator Species** - a species that indicates any particular property of a site.

**Karst Terrains** – a region made up of porous limestone containing deep fissures and sinkholes.

**Lithologic Units** – areas of rock formations.

**Lithology** – the scientific study of rocks

**Lithostratigraphy** – rocky areas beneath the soil surface.

**Methylation** – to mix with methanol.

**Milling** – removal of an asphalt layer on a road surface by means of mechanical cutters.

**National Ambient Air Quality Standard** - standard air pollutant levels set forth by the Environmental Protection Agency (EPA) under the Clean Air Act.

**Nonattainment** - describes an area where air pollution levels persistently exceed the National Ambient Air Quality Standards (NAAQS).

**Oolitic** – composed of calcium carbonate.

**Overtopping** – when flood waters rise above the top of a structure.

**PAHs** – Polynuclear aromatic hydrocarbons are often by products of petroleum processing or combustion. Some of these water insoluble compounds are highly carcinogenic at relatively low levels.

**Porosity** – the amount of pore space.

**Prime and Unique Farmlands** - land that has the best combination of physical and chemical characteristics for producing crops and/or specific high-value food (Farmland Protection Policy Act of 1991).

**Passive Water Treatment Mechanism** - a method of surface water treatment by collecting run-off in retention ponds or swale ditches.

**Physiographic** – describes the features and phenomena of nature.

**Reid Vapor Pressure** - a type of vapor pressure for petroleum fractions and their blends.

**Semivolatile Organic Compounds (SVOCs)** – a hydrocarbon that partially vaporizes when exposed to air such as DDT and chlordane.

**Sequences** - layers of deposit beneath the soil surface.

**Sensitive Receptors** - specific areas within a project area that can be directly affected by project activities such as noise levels and air contaminants.

**Spatially Variable** – not the same in all areas.

**Specific Conductance** – a measure of the electrical conductivity of dissolved ions in the water.

**Spoil Area** – an area where dredged or excavated soil or rock material is deposited.

**Threatened Species** – a species identified and defined in the Federal Registry in accordance with the Endangered Species Act of 1976.

**Transmissivity** – a measure of the amount of radiation propagated through a given medium.

**Trichloroethylene** – a nonflammable liquid used as a solvent and in dry-cleaning and removal of grease from metal.

**Vinyl Chloride** – a flammable gaseous carcinogenic compound used in making vinyl resins.

**Volatile Organic Compounds (VOCs)** – any compound of carbon that participates in atmospheric photochemical reactions such as benzene, toluene, and vinyl chloride.

**Warm Starts** - the ignition of an engine after the engine has been run for a given amount of time.

**Watershed** – the area drained by a river or river system.

## 11.2 ACRONYMS AND ABBREVIATIONS

**ADT** – average daily traffic  
**AFDM** – ash-free dry mass  
**BOD** - biochemical oxygen demand  
**C&SF** - Central and Southern Florida  
**CAAA** - Clean Air Act Amendments  
**CAR** - Coordination Act Report  
**CERP** - Comprehensive Everglades Restoration Plan  
**CO** - carbon monoxide  
**cpu** - color photometric units  
**CWA** - Clean Water Act  
**DERM** - Department of Environmental Resources Management  
**DO** - dissolved oxygen  
**DOC** - dissolved organic carbon  
**DSL** - design service life  
**EIS** - environmental impact statement  
**EMO** - Environmental Management Office  
**ENP** - Everglades National Park  
**EO** - Executive Order  
**FAC** - Florida Administrative Code  
**FAC** - Florida Archaeological Council  
**FDEP** - Florida Department of Environmental Protection  
**FDHR** - Florida Division of Historical Resources  
**FDOT** - Florida Department of Transportation  
**FFWCC** - Florida Fish and Wildlife Conservation Commission  
**FHWA** - Federal Highway Administration  
**ft** - feet  
**GDM** - general design memorandum  
**g/sqm/d** – grams per square meter per day  
**GRR** - general reevaluation report

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and Conversion Tables

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**HTRW** - hazardous, toxic, and radiological waste  
**L-67 ext** - extension of Levee 67  
**LOS** - level of service  
**MPO** – Metropolitan Planning Organization  
**MWD** - Modified Water Deliveries  
**NAAQS** - National Ambient Air Quality Standards  
**NAPLs** - non-aqueous phase liquids  
**NEPA** - National Environmental Policy Act  
**NESRS** - Northeast Shark River Slough  
**mg** - milligrams  
**NH<sub>3</sub>** - ammonia nitrogen  
**NHPA** - National Historic Preservation Act  
**NO<sub>2</sub> NO<sub>3</sub>** . nitrate-nitrite  
**NO<sub>x</sub>** - oxides of nitrogen  
**NPL** - National Priority List  
**NPS** - National Park Service  
**NRHP** - National Registry of Historic Places  
**NVGD** – National Vertical Geodetic Datum  
**OMRR&R** - Operation, Maintenance, Repair, Replacement, and Rehabilitation  
**OP** - ortho-phosphorus  
**PAHs** - polycyclic aromatic hydrocarbons  
**PCBs** - polychlorinated biphenyls  
**PD&E Manual** - Project Development and Environment Manual  
**ppm** – parts per million  
**RCRA** - Resource Conservation and Recovery Act  
**ROPA** - Register of Professional Archaeologists  
**RPA** - Reasonable and Prudent Alternatives  
**S-12s** - Structure 12s  
**SCDS** - South Dade Conveyance System  
**SEIS** - supplemental environmental impact statement  
**SFWMD** - South Florida Water Management District  
**SHPO** - State Historic Preservation Office  
**SRS** - Shark River Slough  
**SVOCs** - semivolatile organic compounds  
**SWIM** - surface water improvement management  
**TBT** - tributyltin  
**TCE** - trichloroethylene  
**TDS** - total dissolved solids  
**TKN** - total Kjeldahl nitrogen  
**TMDLs** - total maximum daily loads  
**TP** - total phosphorus  
**TSS** - total suspended solids  
**USACE** - U.S. Army Corps of Engineers  
**USEPA** – U.S. Environmental Protection Agency  
**USFWS** - U.S. Fish and Wildlife Service  
**USGS** - U.S. Geological Survey  
**UST** - underground storage tank  
**VOC** - volatile organic carbon

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VOCs - volatile organic compounds  
 vpd - vehicles per day  
 vph – vehicles per hour  
 WCA-3A - Water Conservation Area 3A  
 WCA-3B - Water Conservation Area 3B

**11.3 CONVERSION TABLE**

To Convert From	To	Multiply By
<b>AREA</b>		
Acres	square feet	43560
	square meters	4046.9
	hectares	0.40469
Hectares	acres	2.4710
	square feet	107639
	square meters	10000
Square centimeters	square inches	0.1550
Square feet	acres	0.000022956
	square meters	0.092903
Square kilometers	acres	247.10
	square miles	0.38610
Square meters	acres	0.00024710
	square feet	10.764
Square miles	acres	640
	square kilometers	2.590
Square yards	acres	0.00020661
	square meters	0.83613
<b>FLOW RATE VOLUME</b>		
cubic feet per minute	kilograms per minute	0.4536
cubic meters per hour	cubic centimeters per second	471.9
	cubic meters per second	0.0004719
	cubic meters per hour	1.699
	liters per second	0.4719
	gallons (US) per second	0.2247
cubic meters per second	pounds of water per minute (at 68°F)	62.32
	cubic meters per second	0.028317
	cubic meters per minute	1.699
	cubic meters per hour	101.9
	gallons (US) per minute	448.8
	gallons (imp) per hour	646315
Gallons (US) per minute	liters	28.32
	cubic meters per minute	0.016667
	cubic meters per second	0.00027778
	gallons (US) per minute	4.4033
liters per minute	liters per second	0.27778
	cubic meters per hour	3600
	gallons (US) per minute	15850

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To Convert From	To	Multiply By
liters per second	cubic meters per second	0.000063090
	cubic meters per minute	0.0037854
	cubic meters per hour	0.2771
	cubic feet per second	0.002228
	cubic feet per hour	8.021
	liters per second	0.06309
Standard cubic feet per minute	cubic meters per second	0.001
	cubic meters per minute	0.06
	cubic meters per hour	3.600
	liters per minute	60
	gallons (US) per minute	15.85
	gallons (imp) per minute	13.20
<b>LENGTH</b>		
Feet	inches	0.3937
Inches	feet	6
	meters	1.8288
Kilometers	centimeters	30.480
	inches	12
	meters	0.30480
	yards	0.3333
Meters	centimeters	2.540
	meters	0.02540
	millimeters	25.40
	micrometers	25.4
Micrometers	feet	3280.8
	miles	0.62137
Millimeters	feet	3.2808
	inches	39.370
	yards	1.0936
Miles	inches	0.039370
Statute miles	millimeters	0.0254
Yards	feet	
	kilometers	
	meters	
<b>MASS/WEIGHT</b>		
Grams	grains	27.344
	grams	1.7718
	ounces	0.0625
Kilograms	grams	0.0648
	ounces (avoir)	0.0022857
metric tons (tonnes)	grains	15.432
	ounces (avoir)	0.035274
	pounds (avoir)	0.0022046
Ounces (avoir)	pounds	2.2046
	tons (short)	0.0011023
Pounds (avoir)	kilograms	1000

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To Convert From	To	Multiply By
tons (long)	drams (avoir)	16
	grains	437.5
	grams	28.3495
	kilograms	0.028350
	pounds-avoir	0.06250
	metric tons	0.000028350
tons (short)	drams (avoir)	256
	grains	7000
	grams	453.59
	kilograms	0.45359
	ounces (avoir)	16
	metric tons	0.00045359
	tons (long)	0.0004643
short ton	kilograms	1016.0
	metric tons	1.0160
	pounds-avoir	2240
	tons (short)	1.120
<b>VOLUME</b>		
Barrels (oil)	cubic feet	43.560
	gallons (US)	325851
	cubic meters	1233.5
cubic centimeters	gallons (US)	31.5
cubic feet	cubic meters	0.11924
	gallons of oil	42
	cubic meters	0.15899
cubic inches	cubic inches	0.06102
	cubic feet	0.000035315
	cubic yards	0.000001308
	gallons (US)	0.0002642
	gallons (imp)	0.00022
	liters	0.001
cubic meters	cubic centimeters	28317
	cubic meters	0.028317
	cubic inches	1728
	cubic yards	0.03704
	gallons (US)	7.4805
	gallons (imp)	6.229
	liters	28.32
cubic yards	cubic centimeters	16.387
	cubic feet	0.0005787
	cubic meters	0.000016387
	cubic yards	0.00002143
	gallons (US)	0.004329
	gallons (imp)	0.03605
	liters	0.016387
Gallons (US)	cubic inches	1.8046
	liters	0.02957

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To Convert From	To	Multiply By
Liters	cubic centimeters	4546.1
	cubic meters	0.0045461
	cubic feet	0.16054
	cubic yards	0.005946
	gallons (US)	1.20094
	liters	4.5461
	pounds of water at 62°F	10.000

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