

## 5. LIST OF PREPARERS

### 5.1 PREPARERS

<b>Name (affiliation)</b>	<b>Discipline</b>	<b>Years</b>	<b>Role</b>
Don J. Silverberg (Lotspeich & Assoc.)	Biologist/NEPA	12	Principal Author
Jeff Rhodes (SAIC)	Biologist	5	Water Quality Model
Bob Barron (Corps)	Civil Engineer	15	ADG Report

### 5.2 REVIEWERS

<b>Name (affiliation)</b>	<b>Discipline</b>	<b>Years</b>	<b>Role</b>
Renee L Thomas (Lotspeich & Assoc.)	Biologist	12	General Review
Kenneth R. Dugger (Corps)	Biologist	28	EIS contract oversight & general review
Bob Barron (Corps)	Civil Engineer	15	General Review
Al Lucas (EPA)	Ecologist	20	Water Quality & General Review
Paul Szerszen (SAIC)	Engineer	15	Water Quality Model

## **6. PUBLIC INVOLVEMENT**

### **6.1 SCOPING AND DRAFT EIS**

A Notice of Intent (NOI) to prepare a draft of this EIS appeared in the Federal Register on 12 January 1998. In addition, the NOI was mailed to interested and affected parties by letter dated 12 January 1998. A copy of the letter and NOI are in Appendix C. Two public meetings were held to receive comments. At public meetings held on 9 February 1998, more than 200 people (of whom 60 spoke) attended and provided comments regarding geographic area, specific issues, and the manner of the EIS process. The Corps also addressed a joint session of the Boards of County Commissioners of Lee and Collier Counties on 11 February 1998.

### **6.2 AGENCY COORDINATION**

Representatives of the EPA, USFWS, FGFWFC, SFWMD, FDEP, and the Florida Department of Community Affairs (DCA) were participants in the Alternatives Development Group process, and played significant roles in the development, refinement and review of the alternatives and the metrics associated with their evaluation.

### **6.3 LIST OF STATEMENT RECIPIENTS (DRAFT EIS)**

Copies of the draft EIS were mailed to the following parties: local, state, and Federal agencies having jurisdiction or expertise; conservation groups; and other parties expressing a desire for a copy. In addition, the availability of the Draft EIS is published in the Federal Register. A complete mailing list for the NOI and NOA is in Appendix C.

### **6.4 COMMENTS RECEIVED**

Comments received during the scoping process were considered in preparing the Draft EIS. A copy of these comments are in Appendix C. Comments on the Draft EIS will be considered in producing the Final EIS.

## REFERENCES

- Abbot, G.C. and A.K. Nath. 1996. Hydrologic Restoration of Southern Golden Gate Estates Conceptual Plan. Final Report. Big Cypress Basin Board, South Florida Water Management District. Naples.
- Ackerman, B.B., S.D. Wright, R.K. Bonde, C.A. Beck, and D.J. Banowetz. 1995. Analysis of watercraft-related mortality of manatees in Florida, 1979-1991. Pages 259-268 in T.J. O'Shea, B.B. Ackerman, and H.F. Percival, eds. Population biology of the Florida manatee: Information and Technology Report I. U.S. Department of the Interior, National Biological Service. Washington, D.C.
- Arnold Committee. 1996. Arnold Committee Report and Recommendations for the Siting of Florida Gulf Coast University. 50 pp.
- Ashton, R.E., Jr. and P.S. Ashton. 1988. Handbook of Reptiles and Amphibians of Florida - Part Three - The Amphibians. Windward Publishing. Miami, Florida.
- Boyer, J.N. and R.D. Jones. 1996. The Florida Bay Water quality Monitoring Program: Assessing Status and Trends (1989-1995). Florida International University, Southeast Environmental Research Program, Miami. Abstracts Sheraton Key Largo &#128; Key Largo, Florida. December 10-12.
- Browder, J.S. 1984. Wood stork feeding areas in southwest Florida. Florida Field Naturalist 12:81-96.
- Bryan, D.C. 1996. Limpkin. Pages 485-496 in Rare and Endangered Biota of Florida. Volume V: Birds. Rodgers, J.A., Jr., H.W. Kale II, and H.T. Smith, eds. University Press of Florida. Gainesville, Florida.
- Camp, Dresser and McKee, Inc (CDM). 1995. Caloosahatchee River Basin Assessment Water Quality Data Analysis Report (Phase II). Prepared for Upper District Planning, South Florida Water Management District. West Palm Beach.
- CH2M Hill, Inc. 1991. Best Management Practices and Construction Standards for Local Government Stormwater Management. Prepared for the South Florida Water Management District, West Palm Beach, Florida. CH2M Hill, Deerfield Beach, Florida.
- Charlotte Harbor National Estuary Program (CHNEP). 1997. Charlotte Harbor National Estuary Program. Harbor Happenings. M. Upton, Ed. Vol. 1, No. 2. Summer, 1997. Fort Myers, Florida.
- Clark, R. 1987. Water Quality, Circulation and Patterns and Sediment Analysis of the Estero Bay Estuarine System, 1986. Department of Community Development, Lee County, Florida. Prepared under Coastal Zone Management Grant CM-123 from the Florida Department of Environmental Regulation.
- Coile, N.C. 1998. Notes on Florida's Endangered and Threatened Plants, 2<sup>nd</sup> Edition. Florida Department of Agriculture and Consumer Services, Division of Plant Industry. Gainesville, Florida.
- Collier County. 1997. Collier County Growth Management Plan, Public Facilities Element, Natural Groundwater Aquifer Recharge Sub-element Ordinance 97-59. Collier County, Florida.

- Collier County Environmental Services Division.. May 1995. Collier County Manatee Protection Plan. Collier County Natural Resources Department, Naples, Florida
- Cox, J., R. Kautz, M. MacLaughlin, and T. Gilbert. 1994. Closing the Gaps in Florida's Wildlife Habitat Conservation System. Office of Environmental Services. Florida Game and Fresh Water Fish Commission. Tallahassee, Florida. 239 pp.
- Curnutt, J.L. 1996. Cape Sable seaside sparrow. Pages 137-143 *in* Rare and Endangered Biota of Florida. Volume V: Birds. Rodgers, J.A., Jr., H.W. Kale II, and H.T. Smith, eds. University Press of Florida. Gainesville, Florida.
- Daltry, W.E. and D.Y. Burr. 1998. Base Programs Analysis. Volume 1: Description of the Existing Laws, Policy, and Resource Management Structure in the Greater Charlotte Harbor Watershed. Technical Report 98-01. Prepared for the Charlotte Harbor National Estuary Program. Fort Myers, Florida.
- Dames and Moore. 1997. Big Cypress Basin Watershed Plan. Task A&B – Project Orientation and Data Collection. Prepared for South Florida Water Management District Big Cypress Basin Board. Contract No. C-7703.
- Dames & Moore, Inc. 1990. Urban Stormwater Analysis and Improvements for the Tampa Bay Watershed. Prepared for the Southwest Florida Water Management District, Brooksville, Florida by Dames & Moore, Tampa, Florida and Environmental Research and Design. Orlando, Florida. December 1990.
- Diemer, J. 1992. Gopher tortoise. Pages 123-127 *in* Rare and Endangered Biota of Florida. Volume III: Amphibians and Reptiles. P.E. Moler, ed. University Press of Florida. Gainesville, Florida.
- Dodd, C.K. 1992. Loggerhead sea turtle. Pages 128-134 *in* Rare and Endangered Biota of Florida. Volume III: Amphibians and Reptiles. P.E. Moler, ed. University Press of Florida. Gainesville, Florida.
- Drew, R.D. and N.S. Schomer. 1984. An Ecological Characterization of the Caloosahatchee River/Big Cypress Watershed. U.S. Fish Wild. Serv. FWS/OBS-82/58.2. 225 pp.
- Driver, N.E. and G.D. Tasker. 1990. Techniques for Estimation of Storm-Runoff Leads, Volumes, and Selected Constituent Concentrations in Urban Watersheds in the United States. United States Geological Survey Water-Supply Paper 2363, U.S. Department of the Interior. U.S. Government Printing Office, Washington, D.C.
- Ehrlich, P.R., D.S. Dobkin, and D. Wheye. 1992. Birds In Jeopardy: The imperiled and Extinct Birds of the United States and Canada including Hawaii and Puerto Rico. Stanford University Press. Stanford, California.
- Estevez, E.D., J. Miller, and J. Morris. 1981. A review of scientific information of the Charlotte Harbor estuarine system complex. Mote Marine Laboratory. Sarasota, Florida.
- Fitzpatrick, J.W., R. Bowman, D.R. Breininger, M.A. O'Connell, B. Stith, J. Thaxton, B.R. Toland, and G.E. Woolfenden. 1994. Habitat conservation plans for the Florida scrub jay: a biological framework. Unpublished report. On file at U.S. Fish and Wildlife Service, South Florida Ecosystem Office. Vero Beach, Florida.

- Fitzpatrick, J.W., G.E. Woolfenden, and M.T. Kopeny. 1991. Ecology and development-related habitat requirements of the Florida scrub jay (*Aphelocoma coerulescens coerulescens*). Florida Game and Freshwater Fish Comm. Nongame Wildlife Program Technical Report Number 8. Tallahassee, Florida.
- Florida Department of Environmental Protection (FDEP). 1996a. 1996 Water Quality Assessment for the State of Florida. Technical Appendix, South and Southeast Florida. Bureau of Surface Water Management, Division of Water Facilities. Tallahassee, Florida.
- Florida Department of Environmental Protection (FDEP). 1996b. 1996 Water Quality Assessment for the State of Florida, Section 305(b), Main Report. Florida Department of Environmental Protection, Bureau of Water Resources Protection, Division of Water Facilities, Tallahassee, Florida.
- Florida Department of Environmental Protection (FDEP). 1996. Florida Marine Research Institute. Manatee Mortality Map, January 1974 through September 1997.
- Florida Department of Environmental Protection (FDEP). 1986. Ambient Air Quality. Tallahassee, Florida. *in* Southwest Florida Regional Planning Council. 1995. Strategic Regional Policy Plan of the Southwest Florida Regional Planning Council. Southwest Florida Regional Planning Council. North Fort Myers, Florida.
- Florida Department of Natural Resources (FDNR). 1992. Florida's Ground Water Monitoring Program, Hydrogeologic Framework. Florida Geological Survey Special Publication No. 32. Tallahassee, Florida.
- Florida Game and Fresh Water Fish Commission (FGFWFC). Official Lists of Endangered and Potentially Endangered Fauna and Flora in Florida, 1 August 1997.
- Florida Game and Fresh Water Fish Commission (FGFWFC). 1996. Species data *in* Wilson, Miller, Barton & Peek, Inc. 1998. Geographic Information System Output Data. Compilation of Areal Coverages from ADG-Formulated Alternatives. Naples, Florida.
- Florida Panther Interagency Committee. 1993. Florida Panther Habitat Preservation Plan - South Florida Population. Florida Panther Interagency Committee. 102 pp.
- Florida Power and Light (FP&L). 1989. The West Indian Manatee In Florida. Written by Victoria Brook Van Meter for Florida Power & Light Company. Miami, Florida.
- Franz, R. 1992. Florida pine snake. Pages 254-258 *in* Rare and Endangered Biota of Florida. Volume III: Amphibians and Reptiles. P.E. Moler, ed. University Press of Florida. Gainesville, Florida.
- Gardner, T. 1988. Rookery Bay and Cape Romano-Ten Thousand Islands Aquatic Preserves Management Plan. Florida Department of Natural Resources. Tallahassee, Florida.
- Gibson, G. 1997. FY 95/96 Collier County Trend Ground Water Quality Monitoring Data Report. Water Resources Management Section, Collier County Pollution Control Department. Naples, Florida.
- Gibson, G. and S.V. Preston. 1993. Delineation and Management Plan of High Natural Aquifer Recharge Areas, Collier County, Florida. Pollution Control Department. Publication Series PC-OFR-93-01. Naples, Florida.

- Gissendanner, E.J. 1983. Estero Bay Aquatic Preserve Management Plan. Florida Department of Natural Resources. Division of Recreation and Parks, Bureau of Environmental Land Management. Tallahassee, Florida.
- Godley, J.S. 1992. Gopher frog. Pages 15-19 *in* Rare and Endangered Biota of Florida. Volume III: Amphibians and Reptiles. P.E. Moler, ed. University Press of Florida. Gainesville, Florida.
- Godschalk and Associates. 1988. Lee County Coastal Study. A Report to the Lee County, Florida Department of Community Development. Vol. 1. Findings and Recommendations.
- Haag, K.H., R.L. Miller, L.A. Bradner, and D.S. McCulloch. 1996. Water Quality Assessment of Southern Florida: An Overview of Available Information on Surface and Ground-Water Quality and Ecology. U.S. Geological Survey. Water-Resources Investigations Report 96-4177. Tallahassee, Florida.
- Hatcher, and W. D. Lorenz, Jr. 1988. Big Cypress Basin Water Quality Monitoring Network Annual Report for 1987. Collier County Environmental Science and Pollution Control Department. Naples, Florida.
- Hovis, J.A. 1996. Red-cockaded Woodpecker. Pages 81-102 *in* Rare and Endangered Biota of Florida. Volume V: Birds. Rodgers, J.A., Jr., H.W. Kale II, and H.T. Smith, eds. University Press of Florida. Gainesville, Florida.
- Humphrey, S.R. 1992. Big Cypress fox squirrel. Pages 224-233 *in* Rare and Endangered Biota of Florida. Volume I: Mammals. S.R. Humphrey, ed. University Press of Florida. Gainesville, Florida.
- Humphrey, S.R. 1992. Southern Florida Population of Mink. Pages 319-327 *in* Rare and Endangered Biota of Florida. Volume I: Mammals. S.R. Humphrey, ed. University Press of Florida. Gainesville, Florida.
- Johnson Engineering, Inc., Agnoli, Barber, and Brundage, Inc., and Boylan Environmental Consultants, Inc. 1998. South Lee County Watershed Plan (Interim). Volume I. Prepared for the South Florida Water Management District.
- Jones, C.P. 1980. Big Hickory Pass, New Pass, and Big Carlos Pass. Glossary of inlets. Florida Sea Grant College Rep. No. 8. 47 pp.
- Kale, H.W. II, et al. 1992. – Section 4.3 (Species Description)
- Kehoe, M.J. 1992. Water-Quality Survey of Twenty-four Stormwater Wet-Detention Ponds (Final Report). Environmental Section, Southwest Florida Management District, Brooksville, Florida.
- Kenner, W.E. and E. Brown. 1956. Interim Report on Surface Water Resources and Quality of Waters in Lee County, Florida. U.S. Geological Survey.
- Kimes, C.A., and L. C. Crocker. 1998. The Caloosahatchee River and its Watershed (Draft). Prepared for Florida Gulf Coast University Library Services. Ft. Myers, Florida.
- Kirby, M. N., J. M. Hatcher, and W. D. Lorenz, Jr. 1998. Big Cypress Basin Water Quality Monitoring Network Annual Report for 1987. Collier Co. Environmental Science and Pollution Control Department, Naples, Florida.

- Layne, J.A. 1996. Crested caracara. Pages 197-210 *in* Rare and Endangered Biota of Florida. Volume V: Birds. J.A. Rodgers, Jr., H.W. Kale II, and H.T. Smith, eds. University Press of Florida. Gainesville, Florida.
- Layne, J.N. 1992. Sherman's short-tailed shrew. Pages 328-334 *in* Rare and Endangered Biota of Florida. Volume I: Mammals. S.R. Humphrey, ed. University Press of Florida. Gainesville, Florida.
- Layne, . 1978a. – Section 4.3 (Caracara Species Description)
- Lee, C.C. 1992. Environmental Engineering Dictionary. Second Edition. Government Institutes, Inc. Rockville, Maryland.
- Lee County. 1997. The 1994 Lee Plan, 1996 Codification, As Amended through May, 1997. Lee County Department of Community Development, Division of Planning. Fort Myers, Florida.
- Lehninger, A.L. 1982. Principles of Biochemistry. Worth Publishers, Inc. New York, New York.
- Lerman, M. 1986. Marine Biology, Environment, Diversity, and Ecology. The Benjamin/Cummings Publishing Company, Inc. Menlo Park.
- Logan, T.H. 1997. Official Lists of Endangered and Potentially Endangered Fauna and Flora in Florida. Florida Game and Freshwater Fish Commission, Tallahassee, Florida.
- Logan, T.J., A.C. Eller, Jr., R. Morrell, D. Ruffner, and J. Sewell. 1993. Florida panther habitat preservation plan - south Florida population. Prepared for the Florida Panther Interagency Committee. Tallahassee, Florida.
- Maehr, D.S. 1990. Florida panther movements, social organization, and habitat utilization. Final Performance Report, Study No. 7502. Florida Game and Fresh Water Fish Commission. Tallahassee, Florida. *in* U.S. Fish and Wildlife Service. 1998. Multi-species recovery plan for the threatened and endangered species of South Florida, Volume 1 of 2, The Species. Technical/Agency Draft. Vero Beach, Florida.
- Maehr, D.S. 1992c. Florida black bear. Pages 265-275 *in* Rare and Endangered Biota of Florida. Volume I: Mammals. S.R. Humphrey, ed. University Press of Florida. Gainesville, Florida.
- Maehr, D.S. 1992b. Florida panther. Pages 176-189 *in* Rare and Endangered Biota of Florida. Volume I: Mammals. S.R. Humphrey, ed. University Press of Florida. Gainesville, Florida.
- Maehr, D.S. 1992a. Florida panther distribution and conservation strategy. Final Report, Study No. 7572. Florida Game and Fresh Water Fish Commission. Tallahassee, Florida. *in* U.S. Fish and Wildlife Service. 1998. Multi-species recovery plan for the threatened and endangered species of South Florida, Volume 1 of 2, The Species. Technical/Agency Draft. Vero Beach, Florida.
- Marine Technical Advisory Council (MTAC). 1996. Update. Florida Department of Environmental Protection: Tallahassee, Florida
- Marine Mammal Commission (MMC). 1992. Annual Report to Congress, 1991. Marine Mammal Commission. Washington, D.C.
- Mazzotti, Frank J. December, 1990. University of Florida, Florida Cooperative Extension Service. Publication SS-WIS-12: Wood Storks (*Mycteria americana*). Gainesville, Florida.

- McElroy, W.J. and K.C. Alvarez. 1975. Final Report on the Augmentation of Surficial Flow through the Fakahatchee Strand Collier County, Florida. Water Resource Report No. 2. Department of Environmental Regulation and Department of Natural Resources. Tallahassee, Florida.
- Meylan, A. 1992. Hawksbill turtle. Pages 95-99 *in* Rare and Endangered Biota of Florida. Volume III: Amphibians and Reptiles. P.E. Moler, ed. University Press of Florida. Gainesville, Florida.
- Milanich, J. 1995. Florida Indians and the Invasion from Europe. University Presses of Florida. Gainesville, Florida. 290 pp.
- Millsap, B.A. 1996. Florida burrowing owl. Pages 579-587 *in* Rare and Endangered Biota of Florida. Volume V: Birds. Rodgers, J.A., Jr., H.W. Kale II, and H.T. Smith, eds. University Press of Florida. Gainesville, Florida.
- Milsap, 1991. – Section 4.3 (Caracara Species Description)
- Moler, P.E. 1992. American crocodile. Pages 83-89 *in* Rare and Endangered Biota of Florida. Volume III: Amphibians and Reptiles. P.E. Moler, ed. University Press of Florida. Gainesville, Florida.
- Myers, R.L. 1990. Scrub and high pine. Pages 150-193 *in* R.L. Myers and J.J. Ewel, eds. Ecosystems of Florida. University of Central Florida Press. Orlando, Florida.
- Ogden, J.C. 1990. Habitat management guidelines for the wood stork in the southeast region. Prepared for the U.S. Fish and Wildlife Service. Atlanta, Georgia.
- Ogden, L.H. 1992. Atlantic ridley turtle. Pages 100-104 *in* Rare and Endangered Biota of Florida. Volume III: Amphibians and Reptiles. P.E. Moler, ed. University Press of Florida. Gainesville, Florida.
- Rice University. 1998. Key Water Quality Indicators. <http://riceinfo.rice.edu/armadillo/Galveston/Chap6/water.quality.indicator.html>.
- Rodgers, J.A., Jr. 1996. Little blue heron. Pages 413-419 *in* Rare and Endangered Biota of Florida. Volume V: Birds. Rodgers, J.A., Jr., H.W. Kale II, and H.T. Smith, eds. University Press of Florida. Gainesville, Florida.
- Rookery Bay National Estuary Research Reserve. 1996. Rookery Bay Advance Identification of Wetlands Project - Draft Technical Summary Document. Naples, Florida.
- Runde, D.E., J.A. Gore, J.A. Hovis, M.S. Robson, and P.D. Southall. 1991. Florida Atlas of Breeding Sites for Herons and Their Allies - Update 1986-89. Florida Game and Fresh Water Fish Commission. Nongame Wildlife Program Technical Report Number 10. Tallahassee, Florida.
- Rushton, B. and C. Dye. 1993. The Effectiveness of Permitted Stormwater Systems for Water Quality Control. Reprinted from the Fourth Annual Symposium, Florida Lake Management Society. Deland, Florida.
- Rushton, B.T. and C.W. Dye. 1993. An In Depth Analysis of a Wet Detention Storm Water System. Southwest Florida Water Management District. Brooksville, Florida.
- Sarasota Bay National Estuary Program (SBNEP). 1994. Sarasota, Florida

- Sawyer, C.N. and P.L. McCarty. Chemistry for Environmental Engineering. Third Edition. McGraw-Hill Publishing Company. New York.
- Schaefer, J., and J. Junkin. 1990. University of Florida, Florida Cooperative Extension Service. Publication SS-WIS-24: The Eastern Indigo Snake: A Threatened Species. Gainesville, Florida.
- Simpson, B. L., R. Aaron, J. Betz, D. Hicks, C. Van der Kreeke, and B. Yokel. 1979. The Naples Bay Study. The Collier County Conservancy. Naples, Florida.
- Smallwood, J.A. 1987. Sexual segregation by habitat in American kestrels wintering in southcentral Florida: vegetative structure and responses to differential prey availability. *Condor* 89:842-849.
- Stys, B. 1993. Ecology and Habitat Protection Needs of the Southeastern American Kestrel (*Falco sparverius paulus*) on Large-Scale Development Sites in Florida. Nongame Wildlife Technical Report No. 13. Office of Environmental Services. Florida Game and Fresh Water Fish Commission. Tallahassee, Florida.
- Smith, K.N. 1993. Manatee habitat and human-related threats to seagrass in Florida: A review. Department of Environmental Protection, Division of Marine Resources. Tallahassee, Florida.
- Smith, R.A, R.B. Alexander, and K.J. Lanfear. 1994. Stream Water Quality in the Coterminous United States—Status and Trends of Selected Indicators During the 1980's. USGS National Water Summary home page. <http://h20.usgs.gov/public/nwsum/sal/trends.html>.
- South Florida Water Management District (SFWMD). 1995. District Water Management Plan, Volume I. Planning Department, South Florida Water Management District. West Palm Beach, Florida.
- South Florida Water Management District (SFWMD). 1998a. Save Our Rivers 1998 Land Acquisition and Management Plan. West Palm Beach, Florida.
- South Florida Water Management District (SFWMD). 1998b. District-wide Water Supply Assessment. South Florida Water Management District. West Palm Beach, Florida.
- Southwest Florida Regional Planning Council. 1995. Strategic Regional Policy Plan of the Southwest Florida Regional Planning Council. Southwest Florida Regional Planning Council. North Fort Myers, Florida.
- Stys, B. 1997. Ecology of the Florida Sandhill Crane. Florida Game and Fresh Water Fish Commission. Nongame Wildlife Technical Report No. 15. Tallahassee, Florida. 20 pp.
- Stys, B. 1993. Ecology and Habitat Protection Needs of the Southeastern American Kestrel (*Falco sparverius paulus*) on Large-Scale Development Sites in Florida. Nongame Wildlife Technical Report No. 13. Office of Environmental Services. Florida Game and Fresh Water Fish Commission. Tallahassee, Florida.
- Tabb, D.C., R.G. Rehrer, P. Larson, S. Berkeley, E.J. Heald, M.A. Roessler, and T.R. Alexander. 1974. Ecological inventory of coastal waters and adjacent uplands of Lee County, Florida in the vicinity of Estero Bay marine preserve. Rosentiel School of Marine and Atmospheric Science, University of Miami, Miami, Florida. UM-RSMAS No. 73013.
- Tampa Bay National Estuary Program (TBNEP). 1995. Tampa, Florida
- Tennant, A. and K.L. Krysko. 1997. A Field Guide to Snakes of Florida. Gulf Publishing Company. Houston, Texas. 257 pp.

- Toland, B. 1996. USFWS: Personal communication.
- U.S. Army Corps of Engineers (USACE). 1998. Charge to the Alternatives Development Group of the Southwest Florida Environmental Impact Statement *in* Meeting Notes of The Alternatives Development Group (ADG) Southwest Florida Environmental Impact Statement-Meeting #1, April 16-17, 1998.
- U.S. Army Corps of Engineers (USACE). 1980. Reconnaissance Report. Golden Gate Estates. Department of the Army, Jacksonville District, Corps of Engineers. Jacksonville, Florida.
- U.S. Department of Commerce. 1992. 1990 Census of Population and Housing Summary Tape File 3A. Florida, Alachua-Lee Counties. Bureau of the Census, Data User Services Division. Washington, D.C.
- U.S. Environmental Protection Agency (USEPA). 1996. Why Watersheds? OWOW Homepage <http://www.epa.gov/OWOW/watershed/why.html>.
- U.S. Fish and Wildlife Service (USFWS). 1999. Federally Listed Endangered Species and Threatened Species and Candidates for Federal Listing in Collier County Florida. U.S. Fish and Wildlife Service South Florida Field Office. Vero Beach, Florida.
- U.S. Fish and Wildlife Service (USFWS). 1999. Federally Listed Endangered Species and Threatened Species and Candidates for Federal Listing in Lee County Florida. U.S. Fish and Wildlife Service South Florida Field Office. Vero Beach, Florida.
- U.S. Fish and Wildlife Service (USFWS). 1998. Draft Multi-species recovery plan for the threatened and endangered species of South Florida, Volume 1 of 2, The Species. Technical/Agency Draft. Vero Beach, Florida.
- U.S. Fish and Wildlife Service (USFWS). May, 1996. U.S. Fish and Wildlife Service Division of Endangered Species. Everglade Snail Kite, Species Account. Internet Resource: <http://www.fws.gov/r9endspp/i/b/sab0v.html>
- U.S. Fish and Wildlife Service (USFWS). July, 1995. Bald Eagle, Wildlife Species Biologue. Internet Resource: [http://www.fws.gov/r9extaff/biologues/bio\\_eagl.html](http://www.fws.gov/r9extaff/biologues/bio_eagl.html)
- U.S. Fish and Wildlife Service (USFWS). May, 1993. Red-Cockaded Woodpecker, Wildlife Species Biologue. Internet Resource: [http://www.fws.gov/r9extaff/biologues/bio\\_rcw.html](http://www.fws.gov/r9extaff/biologues/bio_rcw.html)
- U.S. Fish and Wildlife Service (USFWS). February, 1991. Audubon crested caracara, Species Account. Internet Resource: <http://www.fws.gov/r9endspp/i/b/sab6e.html>
- U.S. Fish & Wildlife Service and National Marine Fisheries Service. 1998. Endangered Species Consultation Handbook. Final March 1998.
- University of Florida. 1998. Florida Museum of Natural History, Species Account. Internet Resource: [http://www.flmnh.ufl.edu/natsci/herpetology/brittonerocs/csp\\_amis.htm](http://www.flmnh.ufl.edu/natsci/herpetology/brittonerocs/csp_amis.htm)
- Wanielista, M.P. and Y.A. Yousef. 1993. Stormwater Management. John Wiley & Sons, Inc. New York, New York.

- Ward, D.B., editor. 1979. Rare and Endangered Biota of Florida. Volume Five. Plants. University Presses of Florida. Gainesville, Florida.
- Water Quality Association. 1997. Chemical Oxygen Demand (COD). Water Quality Association Glossary of Terms, 3rd Edition. <http://www.wqa.org/WQIS/Glossary/Cod.html>.
- Wilson, Miller, Barton & Peek, Inc. 1998. Geographic Information System Output Data. Compilation of Areal Coverages from ADG-Formulated Alternatives. Naples, Florida.
- Wood, D. A. 1994. Official Lists of Endangered and Potentially Endangered Fauna and Flora in Florida. Florida Game and Freshwater Fish Commission, Tallahassee, Florida.
- Wood, P.B., T.C. Edwards, and M.W. Collopy. 1989. Characteristics of bald eagle nesting habitat in Florida. *Journal of Wildlife Management* 53(2):441-449.
- Woolfenden, G.E., and J.W. Fitzpatrick. 1990. Florida scrub jays: A synopsis after 18 years of study. Pages 241-266 *in* P.B. Stacey, and W.B. Koenig, eds. *Cooperative breeding in birds*. Cambridge University Press. *in* U.S. Fish and Wildlife Service. 1998. Multi-species recovery plan for the threatened and endangered species of South Florida, Volume 1 of 2, The Species. Technical/Agency Draft. Vero Beach, Florida.
- Woolfenden, G.E., and J.W. Fitzpatrick. 1984. The Florida scrub jay: demography of a cooperative-breeding bird. Princeton University Press. Princeton, New Jersey.
- Zieman, J.C. 1982. The ecology of the seagrasses of south Florida: a community profile. U.S. Fish and Wildlife Service, Office of Biological Services. Washington, D.C. FWS/OBS-82/25.

# INDEX

- ADG, 5, 6, 8, 9, 10, 11, 14, 34, 86, 99, 100, 101, 102, 105, 126, 127, 128, 129, 133
- ADG Development Criteria, 155
- AESTHETIC RESOURCES**, 81
- AESTHETICS**, 105
- Affected Environment, 9, 45
- AGENCY COORDINATION**, 135
- AGENCY GOAL OR OBJECTIVE**, 4
- agriculture, 18, 56, 57, 61, 62, 63, 64, 66, 68, 70, 71, 72, 77, 78, 79, 80, 82, 83, 84, 89, 91, 101, 102, 105, 126, 128
- AIR QUALITY**, 81, 123
- Alligator mississippiensis*, 52
- alternatives, 4, 6, 8, 9, 10, 11, 14, 18, 19, 20, 28, 29, 30, 31, 32, 33, 34, 45, 84
- Alternatives Development Group (ADG) Report, 153
- American alligator, 51, 52, 53, 96
- American crocodile, 45, 53, 54
- Aphelocoma coerulescens*, 58
- Aramus guarauna*, 55
- Archeological, 131
- Arctic peregrine falcon, 57
- Audubon's crested caracara, 45, 51, 56, 57
- AUTHORITIES TO IMPLEMENT**, 34
- bald eagle, 45, 51, 59, 90, 106
- Belle Meade, 56, 87, 89, 98, 105
- Big Cypress, 62
- Big Cypress Basin, 72
- Big Cypress fox squirrel, 62, 63
- Big Cypress National Preserve, 89
- Big Cypress Preserve, 45, 72, 76, 82
- Big Cypress Swamp, 61, 64, 66, 76
- BIOLOGICAL RESOURCES**, 45
- buffer zones, 18
- C and SF Project, 4
- cabbage palm, 54
- Camp Keais Strand, 105
- canals, 63
- Caracara plancus*, 56
- Caretta caretta*, 53
- CARL, 89
- CFR, 4, 5, 35, 131
- Chelonia mydas*, 53
- Clean Water Act, 4, 5, 14, 34, 35, 36, 37, 84, 132
- COASTAL BARRIER RESOURCES**, 132
- COASTAL BARRIER RESOURCES**, 106
- Coastal Zone Management Consistency, 149
- Collier County, 1, 5, 6, 9, 10, 14, 28, 29, 32, 38, 45, 52, 56, 59, 60, 61, 62, 63, 69, 72, 76, 79, 80, 82, 83, 87, 88, 89, 90, 92, 93, 94, 95, 101, 102, 104, 105, 106, 107, 108, 110, 120, 122, 135
- COMMENTS RECEIVED**, 135
- Comparison of Alternatives, 34
- COMPATIBILITY WITH FEDERAL, STATE, AND LOCAL OBJECTIVES**, 129
- COMPLIANCE WITH ENVIRONMENTAL REQUIREMENTS**, 130
- Comprehensive Plan, 10, 13, 14, 28, 29, 38, 84, 99, 100, 101, 102, 110
- construction, 128
- CONTROVERSY**, 129
- CONVERSION OF ADG ALTERNATIVES TO EIS ENSEMBLES**, 9
- COORDINATION**, 131
- Corkscrew Swamp, 45, 66, 72, 73, 82, 98
- Corkscrew Swamp Sanctuary, 60
- Corps, 1, 4, 5, 9, 11, 13, 14, 19, 20, 30, 33, 34, 35, 36, 45, 84, 86, 98, 101, 105, 120, 121, 122, 126, 129, 130, 131, 132, 133, 134, 135
- CREW, 5, 18, 45, 62, 73, 82, 87, 98
- critical habitat, 35, 36
- CRITICAL PROJECTS**, 5
- Crocodylus acutus*, 53
- cumulative impacts, 5, 34, 126
- cypress, 60
- DECISIONS TO BE MADE**, 5
- Department of Community Affairs, 29
- Dermochelys coriacea*, 54
- DESCRIPTION OF ENSEMBLES**, 20
- development, 1, 6, 8, 9, 18, 29, 34, 35, 56, 57, 58, 59, 60, 62, 63, 64, 70, 72, 81, 83, 84, 85, 86, 89, 100, 101, 102, 103, 105, 107, 126, 128, 129, 133
- drainage, 60
- dredge and fill permit, iii, 33, 34, 36, 93, 102, 131
- Eastern indigo snake, 45, 51, 54
- Egretta caerulea*, 57
- Egretta thula*, 57
- Egretta tricolor*, 57
- Eleocharis* spp., 60
- ENDANGERED**, 130
- endangered species, 29
- Endangered Species Act, 5, 14, 35, 53, 55, 58, 86, 88, 89, 91, 92, 93, 97, 130, 132
- Energy Requirements and Conservation, 126
- Ensemble, 18, 34, 100, 103
- Environmental Assessment, 1, 4, 5, 8, 9, 10, 11, 13, 14, 19, 29, 35, 57, 59, 60, 81, 82, 83, 101, 103, 104, 108, 120, 121, 122, 123, 124, 128, 130, 131, 132, 133, 135
- ENVIRONMENTAL COMMITMENTS**, 129
- Environmental Effects**, 84
- Environmental Justice, 133
- EPA, 34, 35, 135
- Eretmochelys imbricata*, 54
- Estero Bay, 45, 66, 69, 70, 71, 82, 96, 100, 105, 132
- Estero-Imperial Integrated Watershed, 1, 64, 66, 69, 70, 71
- Eudocimus albus*, 57
- Everglade snail kite, 51, 60
- Everglades, 5, 60, 61, 79, 98
- Everglades mink, 62
- Everglades snail kite, 45, 60
- Fakahatchee Strand, 45, 62, 76, 82, 87, 98
- Faka-Union Canal, 1, 72, 75, 96

*Falco peregrinus tundrius*, 57  
*Falco sparverius paulus*, 57  
fauna, 45  
faunal species, 45  
FDEP, 82, 102, 131, 135  
Federal, 1, 8, 18, 34, 35, 36, 37, 57, 84, 85, 97, 101, 102, 132  
Federal Register, 4, 5, 135  
**FEDERALLY THREATENED AND ENDANGERED SPECIES**, 86  
*Felis concolor coryi*, 61  
FGFWFC, 6, 7, 45, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 86, 88, 91, 92, 93, 96, 97, 100, 106, 131, 135  
fish and wildlife, 5, 131  
Fish and Wildlife, 52  
**FISH AND WILDLIFE RESOURCES**, 97  
**FISH AND WILDLIFE RESOURCES**, 64  
Flood Plain, 133  
Florida black bear, 30, 45, 52, 63, 106  
Florida burrowing owl, 58  
Florida Department of Environmental Protection, 68  
Florida Natural Areas Inventory, 98  
Florida panther, 6, 18, 30, 45, 51, 61, 62, 82, 87  
Florida pine snake, 51, 55  
Florida sandhill crane, 51, 58  
Florida scrub-jay, 45, 56, 58, 59, 88, 89  
flowways, 7, 28, 91, 96, 99, 101, 125, 128  
foraging, 60  
freshwater marshes, 60  
**GENERAL ENVIRONMENTAL EFFECTS**, 84  
**GENERAL ENVIRONMENTAL SETTING**, 45  
Golden Gate Estates, 1, 5, 10, 11, 28, 31, 56, 72, 87, 98, 105, 107  
gopher frog, 52  
gopher tortoise, 51, 52, 55, 88, 106  
*Gopherus polyphemus*, 52, 55  
Green sea turtle, 51, 53  
*Grus canadensis pratensis*, 58  
habitat, 56, 59  
habitat fragmentation, 55, 58, 59, 62, 63, 89, 99  
habitat loss, 6, 57, 58, 60, 61, 106, 107  
*Haliaeetus leucocephalus*, 59  
Hawksbill sea turtle, 51, 54  
**HAZARDOUS, TOXIC AND RADIOACTIVE WASTE**, 81  
**HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE**, 123  
Historic, 131  
**HISTORIC AND ARCHEOLOGICAL RESOURCES**, 82  
Historic Preservation, 131  
**HISTORIC PROPERTIES**, 101  
Hub, 60  
hunting, 52, 54, 59, 63  
hydrologic, 60  
**IMPLEMENTATION**, 11  
**INDIRECT EFFECTS**, 129

irretrievable, 128  
irreversible, 128  
**IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES**, 128  
issues, 8  
ISSUES EVALUATED IN DETAIL, 5  
Kemp's ridley sea turtle, 51, 55  
keystone, 52  
leatherback sea turtle, 51  
Leatherback sea turtle, 54  
Lee County, 1, 5, 6, 9, 10, 14, 18, 28, 29, 38, 45, 52, 55, 56, 59, 61, 62, 63, 69, 79, 80, 82, 83, 87, 88, 90, 92, 93, 94, 95, 96, 101, 102, 105, 106, 107, 110, 120, 135  
Lehigh Acres, 11, 29, 31, 58, 60, 61, 81, 93, 98, 107  
*Lepidochelys kempii*, 55  
limpkin, 51, 55  
**LIST OF PREPARERS**, 134  
**LIST OF REVIEWERS**, 134  
listed species, 6, 35, 36, 45, 52, 53, 54, 55, 56, 57, 59, 60, 61, 63, 91  
little blue heron, 51  
Little blue heron, 57  
**LOCAL SHORT-TERM USES AND MAINTENANCE/ENHANCEMENT OF LONG-TERM PRODUCTIVITY**, 128  
Location, 1  
loggerhead sea turtle, 51  
Loggerhead sea turtle, 53  
manatee mortality, 63  
mangrove, 60  
marsh, 62  
mitigation, 6, 7, 34, 85, 86, 88  
mitigation bank, 18, 85, 86  
mitigation lands, 60  
Multi-species Recovery Plan (Draft), 6, 86, 88, 90, 91, 92, 93, 96, 97  
**MULTI-SPECIES RECOVERY PLAN (DRAFT)**, 97, 156  
*Mustela vison evergladensis*, 62  
*Mycteria americana*, 59  
National Environmental Policy Act, 4, 5, 35, 130  
National Marine Fisheries Service, 35, 130, 132  
Nationwide permit, 4  
**NATIVE AMERICANS**, 126  
native vegetation, 18  
**NATURAL OR DEPLETABLE RESOURCES**, 126  
NEPA, 4, 5, 35, 81, 130  
**NOISE**, 81, 124  
Okeechobee, 60  
open water, 60  
outfall, 63  
Permit Review Criteria, iv, 14, 126, 129, 130, 131, 132, 133  
**PERMITS, LICENSES, AND ENTITLEMENTS**, 8  
Pertinent Correspondence, 152  
Picayune Strand, 45, 82, 98  
*Picoides (=Dendrocopos) borealis*, 56

piping plover, 51  
*Pituophis melanoleucus mugitus*, 55  
*Pomacea paludosa*, 60  
**PRECEDENT AND PRINCIPLE FOR FUTURE ACTIONS**, 129  
 preserve, 18  
**PROJECT LOCATION**, 1  
**PROJECT NEED OR OPPORTUNITY**, 1  
**PROJECT PURPOSE AND NEED**, 1  
 Project Review Criteria (Draft), 157  
 public, 9  
**PUBLIC INVOLVEMENT**, 135  
 public lands, 18  
 Public Meeting, 5, 135  
**PUBLIC SAFETY**, 124  
*Rana capito*, 52  
 RECREATION, 132  
**RECREATION**, 105, 132  
**RECREATION RESOURCES**, 82  
 red-cockaded woodpecker, 45, 51, 56, 89  
 Regional General Permit, 13  
**RELATED ENVIRONMENTAL DOCUMENTS**, 4  
 residential, 83, 101, 102  
 residential development, 18  
 resources, 45, 128, 132  
 Resources, 132  
 restoration, 28  
 Rivers and Harbors Act, 4, 35, 132  
 Rookery Bay, 45, 66, 72, 75, 76, 82, 88, 96, 100, 126, 132  
*Rostrhamus sociabilis plumbeus*, 60  
 sawgrass, 60  
**SCIENTIFIC RESOURCES**, 126  
*Sciurus niger avicennia*, 62  
**SCOPING**, 135  
 Scoping, 5  
**SCOPING AND ISSUES**, 5  
 Section 10 consultation, 86, 88, 89, 97  
 Section 404, 131, 132  
 Section 404(B) Evaluation, 148  
 Section 7 consultation, 35, 88, 89, 90, 91, 92, 93, 97, 130, 132  
 Seminole Tribe of Florida, 126  
 SFWMD, 64, 72, 73, 79, 80, 81, 102, 107, 131, 135  
 Sherman's short-tailed shrew, 60, 61  
 SHPO, 131  
 Six Mile Cypress Slough, 105  
 Snowy egret, 57  
**SOCIO-ECONOMIC**, 101  
**SOCIOECONOMIC RESOURCES**, 82  
**SOLID WASTE**, 123  
 Southeastern American kestrel, 57, 58  
*Speotyto cunicularia floridana*, 58  
 spike rushes, 60  
 St. John's River, 60  
 State, 1, 8, 35, 37, 57, 63, 64, 68, 69, 70, 71, 73, 74, 75, 77, 78, 80, 81, 82, 83, 84, 98, 101, 102, 106, 128, 131, 132  
 State Historic Preservation Officer, 131  
 Status Quo, 28  
 study area, 1, 4, 5, 10, 11, 13, 14, 18, 19, 20, 30, 32, 33, 34, 45, 52, 54, 55, 56, 57, 58, 59, 60, 62, 63, 64, 66, 68, 69, 71, 72, 73, 74, 75, 76, 77, 78, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 96, 97, 98, 99, 100, 105, 106, 123, 124, 126, 129, 133  
 study area, 63  
 swamp, 62  
 , 1, 45, 82, 96, 106  
**THREATENED AND ENDANGERED SPECIES**, 45  
 tree islands, 60  
*Trichechus manatus*, 63  
 Tricolor heron, 57  
 U.S. Environmental Protection Agency, 5, 7, 35, 131  
 U.S. Environmental Protection Agency (EPA) Water Quality Study Report, 154  
 U.S. Fish and Wildlife Service, 5, 35  
**UNAVOIDABLE ADVERSE ENVIRONMENTAL EFFECTS**, 128  
**UNCERTAIN, UNIQUE, OR UNKNOWN RISKS**, 129  
 urban, 128  
*Ursus americanus floridanus*, 63  
 USFWS, 6, 7, 35, 45, 51, 52, 53, 54, 56, 57, 58, 59, 60, 63, 82, 86, 88, 89, 90, 91, 92, 93, 96, 97, 126, 130, 131, 132, 135  
 USFWS, 63  
 vegetation, 13, 84, 128  
 wading bird rookeries, 7, 57, 85, 98  
 wading birds, 55, 57, 106  
 water hyacinth, 60  
 water quality, 5, 6, 19, 30, 31, 33, 34, 36, 37, 55, 64, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 93, 94, 96, 99, 105, 106, 107, 108, 110, 111, 112, 113, 114, 115, 116, 120, 121, 122, 131, 132, 133  
 Water Quality Index, 68, 69, 74, 75, 106  
 WCA, 60  
 West Indian manatee, 45, 52, 63, 94, 95  
 wetland-dependent species, 100  
 wetlands, 6, 7, 11, 18, 29, 31, 34, 45, 52, 54, 57, 58, 60, 62, 68, 70, 71, 72, 75, 76, 77, 84, 85, 86, 87, 92, 96, 100, 101, 102, 107, 125, 126, 128, 133  
 white ibis, 57  
 wide-ranging species, 45, 62, 98  
 wildlife, 18, 126  
 wood stork, 45, 51, 59, 60  
 Wood Stork, 59  
 Zoom, 1, 10, 60