

Attachment 1 to Interlocal Agreement

- 1.0 Names: This attachment is made by Collier Board of County Commissioners (BCC) and Collier Soil and Water Conservation District (CSWCD).
- 2.0 Each property purchased by Conservation Collier will have its own management plan. The ordinance requires that an "Interim" Management Plan be developed within 60 days of purchase and that a "Final" management plan be developed within 2 years. After that, property management plans must be updated every 5 years. Interim Management Plans will be concerned with basic items like removal of invasive exotics and trash, establishing site security, developing management partnerships and planning for public access. All management plans will start in the Lands Evaluation and Management subcommittee and must be approved by both the Conservation Collier Land Acquisition Advisory Committee (CCLAAC) and the Board of County Commissioners:
- 3.0 Specifications for Geographic Information System (GIS) data:
 - 3.1 Positional Standards
 - 3.1.1 All horizontal coordinates shall be referenced to the State Plane Coordinate System, Florida East Zone. The horizontal datum shall be the North American Datum of 1983 (NAD 83), with adjustments for the 1990 (or more recent) High-Accuracy Reference Network (HARN). In ArcGIS, this datum is designated as HARN or HPGN. Units shall be feet.
 - 3.1.2 All vertical coordinates shall be referenced to the North American Vertical Datum of 1988 (NAVD 88). Units shall be feet.
 - 3.1.3 Projection and datum information shall be included in the metadata for each data product.
 - 3.1.4 A statement regarding the accuracy of horizontal and vertical coordinates shall be included in the metadata for each data product.
 - 3.1.5 Data delivered in personal-geodatabase format shall conform to the South Florida Water Management District spatial reference, which is based on a horizontal (X,Y) origin of (-2450000,-1850000) in the coordinate system referenced above and uses a precision of 240 units per foot.
- 4.0 Digital Spatial Data Format:
 - 4.1 All vector and raster spatial data shall be delivered in Environmental Systems Research Institute (ESRI) GIS format. Examples of ESRI format include Arc/Info and ArcGIS.
 - 4.2 Vector data shall be formatted as Arc/Info coverage's of points, lines, polygons, or regions, as appropriate. Under some circumstances, vector data formatted as ArcView shapefiles may be accepted for delivery.
 - 4.3 Raster numeric data shall be formatted as Arc/Info grids, unless otherwise agreed. Under some circumstances, American Standard Code for Information Interchange (ASCII) file format of X-Y-Z values and breaklines may be accepted for delivery of topographic elevation data.
 - 4.4 Digital versions of aerial photography or satellite imagery may be formatted as GeoTIFF or Mr. SID files, with accompanying coordinate-reference ("world") files or their equivalent.

- 4.5 Coverage's, grids, and TINs shall be delivered in Arc/Info export format, unless otherwise agreed. Projection and datum information shall be embedded within every coverage and grid.
- 4.6 Tabular data may be formatted as exported Info files, DBF (file name extension) files, or Excel spreadsheets. Under some circumstances, ASCII files such as CSV (Comma Separated Value(s) database export/import format and file extension) format may be accepted for delivery. Data fields (items, columns) in tables shall be adequately described.
- 4.7 Alternatively, GIS data may be formatted as a personal geodatabase consistent with ArcGIS 9.1. Organizational details of the geodatabase schema, such as feature datasets, subtypes, relationship classes, and the like, shall be submitted to and approved by the SFWMD prior to final delivery.

- 5.0 Digital Spatial Data Quality:
 - 5.1 All data delivered in Arc/Info export format shall import correctly.
 - 5.2 Arc/Info coverage's:
 - 5.2.1 Coordinates shall be stored in double precision.
 - 5.2.2 No edit masks shall exist.
 - 5.2.3 No intersection errors shall exist.
 - 5.2.4 Line and polygon coverage's shall be cleaned prior to delivery. Fuzzy tolerance shall be 0.001 feet, unless otherwise agreed.
 - 5.2.5 Polygon coverage's shall have polygon topology and be free of dangling arcs, open polygons, superfluous pseudo nodes, and label errors.
 - 5.3 ArcView shapefiles:
 - 5.3.1 Line and polygon shapefiles shall be free of intersection errors and overlaps.
 - 5.3.2 When converted into Arc/Info coverage format, shapefiles shall meet the standards for coverage's, as described above.
 - 5.4 ArcGIS personal geodatabases:
 - 5.4.1 Spatial relationships between features, such as adjacency and connectivity, shall be logically designed.
 - 5.4.2 Topological rules shall be fully validated.

- 6.0 Documentation:
 - 6.1 Each data product shall have associated metadata (documentation file) in XML (eXtensible Markup Language) format.
 - 6.2 The metadata shall comply with FGDC (Federal Geospatial Data Committee) metadata standards, unless otherwise agreed. All documentation fields shall be fully populated.

- 7.0 Delivery Format:
 - 7.1 All digital data shall be delivered on CD-ROM or DVD media.
 - 7.2 Each CD-ROM or DVD shall be readable on the computer systems of the SFWMD. At present, all data must be compatible with the Windows NT or XP operating system and ArcGIS version 9.1 or higher.
 - 7.3 The data on each CD-ROM or DVD shall be organized logically into directories.
 - 7.4 A summary listing ("readme.txt" file) of the directory structure and all included files shall be provided on each CD-ROM or DVD.

