Monroe County Residential Canal Inventory and Assessment Final GIS Deliverable

Prepared for:

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MACTEC

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MACTEC

Monroe County Canal Inventory and Assesment Layer 100%

Here are the data sets delivered to date.

Descriptive Data Layer Name	Data Layer Name on CD-ROM Sort by this Item	Data Source
Canal Inventory and Assesment Layer 100%	Canal Layer 100%	MACTEC f/k/a LAW Engineering and Environmental Services (LAW)
Water Quality Station Locations	Water Quality Station Locations	MACTEC f/k/a LAW Engineering and Environmental Services (LAW)
Drainage Basins	BASINS	Florida Department of Environmental Protection (FDEP)
Digital Orthophoto Quarter Quads (DOQQ)	Quad number, Quadrant, and County Index # Ex: 2819nw03.sid (image) and 2819nw03.sdw (world file)	US Geological Survey (USGS)
Digital Orthophoto Quarter Quads (DOQQ) Center Points	DOQQ_CENTERPOINTS# (# = County Index #)	University of Florida GeoPlan Center
Digital Orthophoto Quarter Quads (DOQQ) Index	DOQQ_INDEX# (# = County Index #)	University of Florida GeoPlan Center
Drastic Coverage for the Floridan Aquifer System	AQDRFL	Florida Department of Environmental Protection (FDEP)
Drastic Coverage for the Surficial Aquifer System	AQDRSU	Florida Department of Environmental Protection (FDEP)
EPA River Reach 3 Files	EPARR3	Environmental Protection Agency (EPA)
FDEP Total Maximum Daily Loads for Listed Waters	WTRMDL	Florida Department of Environmental Protection (FDEP)
FDEP Watershed Planning and Coordination Water Quality Data	WTRWPC	Florida Department of Environmental Protection (FDEP)
FDOR Property Tax Data Records Summarized by County - 1992	TAXC92	Florida Department of Revenue (FDOR)
FDOR Property Tax Data Records Summarized by County - 1996	TAXC96	Florida Department of Revenue (FDOR)
FDOR Property Tax Data Records Summarized by County - 1997	TAXC97	Florida Department of Revenue (FDOR)

FDOR Property Tax Data Records Summarized by County - 1998	TAXC98	Florida Department of Revenue (FDOR)
FDOR Property Tax Data Records Summarized by County - 1999	TAXC99	Florida Department of Revenue (FDOR)
FDOR Property Tax Data Records Summarized by Section - 1992	TAXS92	Florida Department of Revenue (FDOR)
FDOR Property Tax Data Records Summarized by Section - 1996	TAXS96	Florida Department of Revenue (FDOR)
FDOR Property Tax Data Records Summarized by Section - 1997	TAXS97	Florida Department of Revenue (FDOR)
FDOR Property Tax Data Records Summarized by Section - 1998	TAXS98	Florida Department of Revenue (FDOR)
FDOR Property Tax Data Records Summarized by Section - 1999	TAXS99	Florida Department of Revenue (FDOR)
FDOT Aerial Photos	Photo number Ex: 10_1002.sid (image) and 10_1002.sdw (world file)	Florida Department of Transportation (FDOT)
FDOT Aerial Photos Center Points	DOTPHO_CENTERPOINTS# (# = County Index #)	University of Florida GeoPlan Center
FDOT Aerial Photos Index	DOTPHO_INDEX# (# = County Index #)	University of Florida GeoPlan Center
FDOT Major Roads 1998	MAJRDS	Florida Department of Transportation (FDOT)
FEMA Flood Insurance Rate Maps 1996	FEMA96	Federal Emergency Management Agency (FEMA)
Florida County Boundaries	CNTBND	US Census Bureau
FNAI Conservation Areas Zone A	FNAICA	Florida Natural Areas Inventory (FNAI)
FNAI Conservation Areas Zone B	FNAICB	Florida Natural Areas Inventory (FNAI)
FNAI Conservation Areas Zone C	FNAICC	Florida Natural Areas Inventory (FNAI)
Multi-Spectral Scanner (MSS) Satellite Imagery - 1970's - .tif	MSS70S	U.S.G.S. EROS Data Center, North American Landscape Characterization Project(CSC)
Multi-Spectral Scanner (MSS) Satellite Imagery - 1980's - .tif	MSS80S	U.S.G.S. EROS Data Center, North American Landscape Characterization Project(CSC)
Multi-Spectral Scanner (MSS) Satellite Imagery - 1990's - .tif	MSS90S	U.S.G.S. EROS Data Center, North American Landscape Characterization Project(CSC)
National Wetlands Inventory - lines	NWIL	US Fish & Wildlife Service (FWS)
National Wetlands Inventory - polygons	NWIP	US Fish & Wildlife Service (FWS)
Northwest Florida WMD 1995 Land Use	NWLU95	Florida Department of Environmental Protection (FDEP)
Pesticide Drastic Vulnerability Areas of the Floridan Aquifer System	AQPSFL	Florida Department of Environmental Protection (FDEP)
Pesticide Drastic Vulnerability Areas of the Intermediate Aquifer System	AQPSIT	Florida Department of Environmental Protection (FDEP)
Pesticide Drastic Vulnerability Areas of the Surficial Aquifer System	AQPSSF	Florida Department of Environmental Protection (FDEP)
Points of Interest	PTSINT	University of Florida GeoPlan Center

Public Land Survey System	PLSS	Florida's Water Management Districts / Florida Resources & Environmental Analysis Center (FREAC)
South Florida WMD Land Use 1990	SFLU90	South Florida Water Management District (SFWMD)
South Florida WMD Land Use 1995	SFLU95	South Florida Water Management District
Southwest Florida WMD Land Use 1990	SWLU90	Southwest Florida Water Management District (SWFWMD)
Southwest Florida WMD Land Use 1995	SWLU95	Southwest Florida Water Management District
Specific Soils - SSURGO	SSOILS	Southwest Florida Water Management District / St. Johns Water Management District / South Florida Water Management District / USDA - Natural Resources Conservation Service (NRCS) / Leon County GIS
St. Johns River WMD Land Use 1990	SJLU90	St. Johns River Water Management District (SJRWMD)
St. Johns River WMD Land Use 1995	SJLU95	St. Johns River Water Management District
Streams	STREAM	US Geological Survey (USGS)/Florida Department of Environmental Protection (FDEP)
Suwannee River WMD Land Use 1990	SRLU90	Suwannee River Water Management District (SRWMD)
Suwannee River WMD 1995 Land Use	SRLU95	Suwannee River Water Management District
Thematic Mapper Satellite Imagery False Color - 1992 - .img	TM92FC	Space Imaging Earth Observation Satellite Company (EOSAT)
Thematic Mapper Satellite Imagery True Color - 1992 - .img	TM92TR	Space Imaging Earth Observation Satellite Company (EOSAT)
Thematic Mapper Satellite Imagery False Color - 1996 - .img	TM96FC	Space Imaging Earth Observation Satellite Company (EOSAT)
Thematic Mapper Satellite Imagery True Color - 1996 - .img	TM96TR	Space Imaging Earth Observation Satellite Company (EOSAT)
Topographic Five-foot Contour Lines	TOPO	US Geological Survey (USGS)/Florida's Water Management Districts
US Census Bureau Tiger 1:100,000 Hydrography	TGRHYD	US Census Bureau
US Census Bureau Tiger 1:100,000 Roads	TGRR90	US Census Bureau
USGS 1:24,000 DRGs (Digital Raster Graphics)	q and Quad number Ex: q4315.sid (image) and q4315.sdw (world file)	US Geological Survey (USGS)
USGS 1:24,000 DRGs (Digital Raster Graphics) Center Points	DRG24K_CENTERPOINTS# (# = County Index #)	University of Florida GeoPlan Center
USGS 1:24,000 DRGs (Digital Raster Graphics) Index	DRG24K_INDEX# (# = County Index #)	University of Florida GeoPlan Center

USGS Geographic Names Information System	GNIS	US Geological Survey (USGS)
USGS Landuse Land Cover from late 1970's / early 1980's 1:250,000	USGSLU	US Geological Survey (USGS)
USGS 1:100,000 Hydrography - lines	HY100L	US Geological Survey (USGS)/Florida Department of Environmental Protection (FDEP)
USGS 1:100,000 Hydrography - polygons	HY100P	US Geological Survey (USGS)/Florida Department of Environmental Protection (FDEP)
USGS 1:24,000 Hydrography - lines	HY24L	US Geological Survey (USGS)
USGS 1:24,000 Hydrography - polygons	HY24P	US Geological Survey (USGS)
USGS 1:24,000 Roads	RDS24	US Geological Survey (USGS)
Watstore Stream Flow Basin Characteristics	WSSFBC	US Geological Survey (USGS)

APPENDIX B

MONROE COUNTY CANAL INVENTORY AND ASSESMENT LAYER 100%
MACTEC ENGINEERING AND CONSULTING, RELEASED NOVEMBER, 2002.

Geodataset Name: Canal Layer 100%
Geodataset Type: SHAPE
Geodataset Feature: Polygon

GENERAL DESCRIPTION:

This dataset contains the Monroe County Canal Layer digitized from the 1998 scanned Florida Department of Transportation (FDOT) aerial photographs. Images have 2m pixels,

DATA SOURCE(S): Florida Department of Transportation

SCALE OF ORIGINAL SOURCE MAPS: 1:25,000 or 1 inch = 2083 feet

DATE OF AUTOMATION OR SOURCE: 2000

GEODATASET EXTENT: Monroe County, Florida

FEATURE ATTRIBUTE TABLES
Datafile Name: CANAL LAYER 100%.DBF

Alias	Type	Width	Decimal
Shape,	FIELD_SHAPEPOLY,	8,	0
Residentia,	FIELD_CHAR,	60,	0
Treatment	FIELD_CHAR,	200,	0
Wq summary,	FIELD_CHAR,	100,	0
Level_i,	FIELD_CHAR,	9,	0
Level ii,	FIELD_CHAR,	9,	0
Level iii,	FIELD_CHAR,	10,	0
Level iv,	FIELD_CHAR,	50,	0
Canal_outf,	FIELD_CHAR,	21,	0
Description of canal outfall,	FIELD_CHAR,	28,	0
Adjacent_to Basin,	FIELD_CHAR,	8,	0
Degree of convolution,	FIELD_CHAR,	8,	0
%Natural,	FIELD_CHAR,	8,	0
%Developed,	FIELD_CHAR,	8,	0
Fill/Dredg,	FIELD_CHAR,	50,	0
No of mouths,	FIELD_DECIMAL,	9,	0
Energy at mouth,	FIELD_CHAR,	23,	0
Orientatio,	FIELD_CHAR,	25,	0
Area__m2_,	FIELD_DECIMAL,	16,	3
Acres,	FIELD_DECIMAL,	16,	3
X_coord,	FIELD_DECIMAL,	18,	5
Y_coord,	FIELD_DECIMAL,	18,	5
A_l_ratio,	FIELD_DECIMAL,	9,	2
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Perimeter,	FIELD_DECIMAL,	16,	3
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Chla,	FIELD_CHAR,	6,	0
Nutrients,	FIELD_CHAR,	10,	0
Oxygen,	FIELD_CHAR,	9,	0
Temp,	FIELD_CHAR,	7,	0
Quality,	FIELD_CHAR,	8,	0
Station Number,	FIELD_CHAR,	16,	0
Wq Source,	FIELD_CHAR,	13,	0
Zoning,	FIELD_CHAR,	8,	0
Orientati1,	FIELD_CHAR,	14,	0
Orientati2,	FIELD_CHAR,	9,	0
Orientati3,	FIELD_CHAR,	9,	0
Orientati4,	FIELD_CHAR,	9,	0
Orientati5,	FIELD_CHAR,	9,	0
Orientati6,	FIELD_CHAR,	9,	0
Orientati7,	FIELD_CHAR,	16,	0
No of inputs,	FIELD_DECIMAL,	16,	2
Na of inputs,	FIELD_CHAR,	100,	0
Year built,	FIELD_DECIMAL,	11,	0
Popul 1990,	FIELD_DECIMAL,	9,	0
Linked pdf,	FIELD_CHAR,	100,	0

FEATURE ATTRIBUTE TABLES CODES AND VALUES:

Residentia – Residential Canal Name: A unique identifier that is a combination of number + Key name. This number has been recalculated for the 100% canal layer.

Treatment

The treatment technologies are discussed below:

1. Technologies that Reduce Input of Seaward Loading

Swinging Weed Gates

Swinging weed gates (or booms) are mechanical devices that physically block seaweed from passing through the device. The weed gates were designed to prevent floating, wind-driven flotsum from entering and accumulating in man-made canals where it typically sinks and fouls with water. Weed gates consist of a floating arm that contains hanging flaps often made of rubber. The gates are placed at a canal mouth to prevent floating seaweed from entering the canal. The gate swings open when applied with slight pressure to allow access for boat traffic. **Figure 5-4** shows an example of a weed gate installed on Big Pine Key. Usually, the physical removal and disposal of the flotsum outside the weed gate is needed. This treatment technology may cause an increase in weed wrack to canals located downgradient.

Air (bubble) Curtains

Air curtains are aeration devices that are a unique configuration and application. Air curtains consist of perforated piping connected to a blower. They are typically installed at the mouth of a canal in order to keep weed wrack from entering the canal. The overall effect is meant to be the same as the swinging weed gates described above. Air curtains seem less effective with high wind or storm conditions. This treatment technology may cause an increase in weed wrack to canals located downgradient.

Physical Removal

Physical removal consists of removing debris or trash from canals to improve water circulation or water quality from decaying organic material. Canals without weed gates or air curtains can have accumulated floating seaweed removed by backhoe or specialized weed removal boats.

2. Technologies that Increase Flushing through Adding a Physical Connection

Construct Flushing Channels

Flushing within canals can be improved by constructing channels between them. This alternative consists of trenching the ground so that adjacent canals are joined and then placing a precast concrete cover over the trench. This would only be applicable in canals with suitable lithology (e.g. not hard rock) and would only be practical where there was sufficient energy (ex: tidal variation) to promote flushing such as a channel at the mouth outfall. These channels are prone to clogging, and residents often request gates or bars over the mouth of the channel for safety reasons. Thus, there is some maintenance involved after installation.

Culvert Installation

Culverts could be installed between canals or between canals and thin land strips to improve flushing within them in a similar fashion to flushing channels. Based on canal-specific hydrology, larger or smaller diameter culverts may be more applicable. Culverts could be installed in any lithology, but would still need an energy source to induce flushing such as a channel at the outfall mouth. Like channels, culverts are even more prone to clogging, and require maintenance. Residents in Key Largo have complained that culverts serve as ideal habitats for the American crocodile, expanding its range south from the northern Key Largo sanctuary. Thus, this technology may include some wildlife management issues.

Excavation of Canal Sills

Excavation of a shallow canal sill or 'restructuring of the canal mouth' can enhance the flushing of the canal. This technology is not applicable for canals with great depths and is only applicable for canals with shallow sills. Excavation of sills is only successful if the canal itself is near a natural tidal channel and can benefit increased circulation energy. If these technologies involve connection directly to nearshore waters the potential negative effect on these waters and the outer reef system must be considered. Due to this potential negative effect these technologies may be difficult to permit.

3. Technologies that Increase Flushing by Pumping

Pumps can be installed to promote water circulation within a canal. Water can be pumped from a 'dead end' canal to another adjacent canal or mangrove creek to increase turnover of water at the end of a canal system. Pump installation must be designed to prevent adverse secondary effects such as resuspension of sediments or bottom scouring. Circulation studies by a qualified coastal engineer would be needed to provide an effective design.

Canal Backfilling

Canal backfilling would be performed in order to decrease the depth of a canal to promote flushing and reduce/eliminate stratification. Filling in of abrupt changes in depth or sink areas would assist in increasing circulation. Backfilling attempts to mimic the hydrology of a mangrove creek, with the shallowest depth at the landward end of the canal, and greatest depth at the mouth of the canal. Flushing is typically hindered by the fact that both the canal sill and the waters surrounding the Keys are typically shallower than the canal bottom. This difference in depth hinders mixing in the lower depths of the canals. This option would work best in canals where there was sufficient energy, either from tidal fluctuations or wind force, to promote flushing. Naturally there may be some restrictions to the size of boats that can utilize filled canals.

Aeration Devices

The only effective aeration devices are those that increase the water circulation from outside the canal to the inside. Circulation devices are specialized aeration devices that could be installed to increase the transfer of oxygen to the water in a localized area. Stagnant water with high biological oxygen demand (BOD) in canals causes low or no dissolved oxygen conditions, (eg. hypoxic and anoxic conditions). Under these conditions, hydrogen sulfide and other anoxic metabolites can accumulate. Fish, seagrass and algae are not likely to flourish under these conditions, thus aerobic recycling of nutrients is not possible. Circulation devices can help prevent hypoxic /anoxic conditions to a limited extent and promote aerobic processing of nutrients.

Advanced Waste Water Treatment

Advanced waste water treatment (AWWT) units can be installed in order to reduce the land based loadings either in conjunction with other technologies or as the primary treatment. Advanced waste water treatment by definition is tertiary treatment of all waste waters, and removal of organic and nutrient loading. AWWT technology can include on-site units, and centralized sewage treatment facilities. This is perhaps the most complicated (and expensive) of the reviewed treatment technologies. An indepth review of the range of technologies is not presented here. The overall impact of the AWWT is to prevent the addition of any pollutants into canal system, including the discharge of fresh water not naturally present.

AWWT can include on-site units such as dry-composing toilets, or waste water hydroponic gardens. Centralized AWWT plants are costly, and include not only the treatment of water, but water recovery and recycling strategies.

APPENDIX B

Berm and Swale

Runoff and land-based pollutants are naturally intercepted by coastal wetlands and coastal plant communities. This filtering effect can be achieved along canals by the construction of a berm and swale between developed lots and a canal. The berm and swale slows water runoff allowing vegetation to filter the rainwater and remove sediments and other pollutants. Berms should be planted with native, low maintenance plants (see attached list). There are a variety of vines, small trees, grasses and herbs that occur naturally in the coastal zone, and are attractive in landscaping for the Keys. The Monroe County Extension Service and the Nature Conservancy can assist with the appropriate plant selection.

The effectiveness of this technology can be increased if homeowners take additional measures to reduce harmful runoff, such as reducing irrigation, reducing impervious surfaces, using mulches around plantings, and reducing the use of pesticides and fertilizers, etc, as has been presented in the Florida Yards and Neighborhoods Program in Hillsborough, Manatee, Pinellas and Sarasota counties. These additional measures can be implemented to reduce stormwater runoff even on lots that are too small for the installation of a berm and swale.

4. Technologies that Remove Nutrients from the Water

Nutrient removal from canal waters consists of pumping the water to a 'nutrient stripper' that is a structure that supports the growth of algae that utilize nutrients from the water. Special macroalgae speciesin the genus Gracilaria or the "mossman" algae have been used effectively in small scale nutrient stripping experiments in the Keys. Water is circulated through shallow troughs exposed to sunlight with small started colonies of algae. Often airstones are used to vigorous circulate the water and stimulate nutrient uptake by the algae. The algae can be periodically harvested (and sold). The water is recycled back to the canal after treatment with lowered nutrient content. This technology would likely work best on small canals with high inorganic nutrient loading.

Best Management Practices

Land based loadings can be reduced through best management practices of the landowners. These practices include no dumping into canals, no cleaning of fish in the canals, and the prevention of bank runoff, among others. The landscaping and land use measures presented by the Florida Yards and Neighborhoods Program and discussed under berm and swale can be included in the best management practices.

Overall, there are no simple solutions, and improved water quality (and ecological health) of the canals may take a number of technologies combined, and take time (decades). The canal systems have accumulated nutrients over decades and these accumulated loadings will slow the impact of treatment technologies focused just at reducing the nutrient loading of today.

The landscaping and land use measures presented by the Florida Yards and Neighborhoods Program should be included in the best management practices. Runoff and land-based pollutants are naturally intercepted by coastal wetlands and coastal plant communities. This filtering effect can be achieved along canals by the construction of a berm and swale between developed lots and canals. The berm and swale slows water runoff allowing vegetation to filter the rainwater and remove sediments and other pollutants. Berms should be planted with native, low maintenance plants. There are a variety of vines, small trees, grasses and herbs that occur naturally in the

coastal zone, and are attractive in landscaping for the Keys. The Monroe County Extension Service and the Nature Conservancy can assist with the appropriate plant selection. The web address for the Monroe County Florida Keys Friendly Landscaping is http://monroe.ifas.ufl.edu/fyn.htm. **Attachment A.2** contains information on the Florida Yards and Neighborhoods Program and suggested native plants to be used for runoff control in the Florida Keys.

Wq_summary

Water Quality in the Residential Canals was designated as "POOR", "FAIR" and "GOOD". This water quality designation recognizes that for MOST canals, water quality will never be comparable to nearshore waters of the Florida Keys, and these water quality designations can be interpreted based on the following criteria.

The most comprehensive water quality database for comparison to residential canal water quality is the Florida Keys Water Quality Protection Program in the Florida Keys National Marine Sanctuary (see Jones and Boyer, 2001 for FY2001 Annual report). This is a large, Keys-wide water quality monitoring program for 154 stations monitored quarterly. The data are analyzed by "clusters", and the stations closest to the canal opening were chosen, as well as the channels (Cluster 5: Nearshore Keys waters) as comparison values to canal water quality data. Water quality designations for the canals ranging from good to poor were denoted based upon this comparison. A summary of all known near-shore Keys water quality data is presented in the discussion on water quality performance in canals.

CATEGORY	DESCRIPTION
POOR	Water quality parameters measured over seasons, storm and tidal fluctuations is significantly different from nearshore waters of the Florida Keys. This includes - Lower minimums, and high maximums of temperature - Lower minimum and high maximums of chlorophyll a - Higher median and maximum values of turbidity, Total Nitrogen and Total Phosphorus - Low Dissolved Oxygen, especially at the bottom of canals.
FAIR	Water quality parameters measured over seasons, storm and tidal fluctuations is SLIGHTLY different from nearshore waters of the Florida Keys. This can mean that at particular times of the year, water quality may have - Lower minimums, and high maximums of temperature - Lower minimum and high maximums of chlorophyll a - Higher median and maximum values of turbidity, Total Nitrogen and Total Phosphorus Low Dissolved Oxygen, especially at the bottom of canals. These conditions do not persist year round.
GOOD	Water quality parameters measured over seasons, storm and tidal fluctuations is NOT significantly different from nearshore waters of the Florida Keys. This includes - Similar minimums and maximums of temperature - Similar minimum and maximum of chlorophyll a - Similar median and maximum values of turbidity, Total Nitrogen and Total Phosphorus - Similar Dissolved Oxygen, and no stratification of water column in the canal.

APPENDIX B

SUMMARY OF WATER QUALITY FOR ALL CANALS IN THE FLORIDA KEYS

CATEGORY	WATER QUALITY DESIGNATION	WATER QUALITY PARAMETER	MEDIAN	MAX	MIN
JUMBO Very limited sampling, especially in winter	POOR	Temperature (^oC)	29.6	35.3	16
		Salinity (ppt)	36.65	37.2	26
		Total Nitrogen (µM)	**26.8**	**263.3**	**8.8**
		Total Phosphrus (µM)	0.36	2.7	0.1
		Chlorophyll a (µg/l)	0.54	15.22	0
LARGE Better representation of POOR water quality	POOR	Temperature (^oC)	**29.9**	**41.5**	**15.0**
		Salinity (ppt)	**35.2**	**50.3**	**8.8**
		Total Nitrogen (µM)	**31.6**	**184.65**	**8.33**
		Total Phosphrus (µM)	**0.39**	**10.09**	**0**
		Chlorophyll a (µg/l)	**0.49**	**23.09**	**0**
MEDIUM	FAIR	Temperature (^oC)	26.5	38.5	14
		Salinity (ppt)	**36.7**	**59.1**	**12.2**
		Total Nitrogen (µM)	**29.39**	**145.78**	**0.33**
		Total Phosphrus (µM)	**0.32**	**44.39**	**0**
		Chlorophyll a (µg/l)	0.38	19	0
SMALL	FAIR TO GOOD	Temperature (^oC)	26.8	41.5	15
		Salinity (ppt)	**37.3**	**46.4**	**0.3**
		Total Nitrogen (µM)	**32.39**	**149.32**	**7.72**
		Total Phosphrus (µM)	**0.34**	**4.75**	**0.06**
		Chlorophyll a (µg/l)	0.43	4.79	0
Cluster "B" Keys Nearshore Waters 2001- FKNMS Water Quality Monitoring	BASELINE	Temperature (^oC)	27.5	39.6	15.1
		Salinity (ppt)	36.3	40	29.5
		Total Nitrogen (µM)	13.25	85.88	1.78
		Total Phosphrus (µM)	0.20	0.62	0.02
		Chlorophyll a (µg/l)	0.23	1.79	0

Note: Values that are statistically different from the nearshore water baseline are shown in BOLD. Refer to the Water Quality Summaries in the attached CD ROM for details of the statistical analyses.

Please note that the sampling in LARGE canals provides a better representation of "Poor" water quality, as sampling was very limited in JUMBO canals. Also, no canal will perform like natural nearshore waters; even the small canals have elevated inorganic nutrient levels.

From the summary table, "POOR" water quality is then defined by:

- extremes in both temperature and salinity beyond the range found in nearshore waters, and,
- at least an order of magnitude higher values in inorganic nutrients and chlorophyll a.

APPENDIX B

In canals with "POOR" water quality, there is a chronic degradation with low circulation and buildup of both organic material and inorganic nutrients. The dark color of the water (high suspended material) contributes to the extreme heating of the water in the summer months.

Residential canals are very vulnerable to acute discharge and spill events. Much of the water quality sampling carried out by the Bay Watch program targeted water quality degradation events and likely captured some of the "worst-case" conditions in the canal. There is as yet no comprehensive water quality-sampling program in the canals that would give a more accurate look at year-to-year variability of water quality parameters.

Level i

Size and Shape of Residential Canals

Size is considered to be the most easily identified and important attribute influencing natural flushing and therefore potential for water quality degradation. The size of the canal is evaluated by ***AREA*.** Area was calculated by the digitized outline of the canal, and is a proxy measurement for the total volume of water incorporated in the canal. Volume is also presented in the GIS attribute table, but the majority of canal depths were not known, thus were estimated as the average permitted canal depth. Since depth is generally the smallest dimension in the volume calculations, it is omitted for this initial sorting. It is sufficient to say that canal depth is critical to its function and design, and more detailed depth and sediment characteristics of the canals are needed in the development of treatment options for individual canals.

UNITS of area are presented in English units such as feet, miles and acres, with the metric units (e.g. meters, kilometers and hectares). Area of the canal is a critical parameter and the units of acres and hectares are given as a proxy for canal size (volume). The average permitted depth of the residential canal systems is 15 feet (4.6 meters), but actual depths vary greatly from canal to canal, and depths can change over time with accumulated sediments, thus area remains a more reliable proxy for canal size until a better depth dataset is developed from ground surveys. **For reference, a (1) hectare canal area is 2.47 acres, and this represents about 2,200 cubic meters of water (just over half million US gallons).** Residential canals are characterized at the highest level of the hierarchy based on area and maximum length.

Table 1: Summary of Residential Canal Area Statistics.

Number of canals	**481**
Mean area in acres	**3.21**
Mean area in hectares	**1.30**
Standard Deviation	**2.88**
Maximum area in hectares	**20.42**
Minimum area in hectares	**0.044**

The mean canal size is 3.21 acres (1.30 hectares), but a few very large canals skew this number. The median size of a canal is only 1.3 acres (0.53 hectares). Most canals are very small with a single mouth.

APPENDIX B

The **MAXIMUN LENGTH** characterizes the SHAPE of canals; maximum length, in meters, is the distance from the mouth to the farthest point in the canal. Canals can be long and narrow, finger-like in shape or more compact and basin-shaped. aximum length can be used a general indication of circulation in the canal; the longer the distance of the canal, the less circulation is likely to occur. Individual canals may be mitigating factors such a culverts that enhance circulation, but this classification begins with the simple canal configuration.

TABLE 2: SUMMARY OF RESIDENTIAL CANAL LENGTH STATISTICS

Number of canals	**481**
Mean length in feet	**1,218**
Mean length in meters	**375**
Standard Deviation	**371**
Maximum length (meters)	**3229**
Minimum length (meters)	**48.5**

The mean canal length is 1,218 feet (375 meters), and canal lengths are more widely distributed than areas. There are many canals that tend to be narrow, and finger-shaped; thus prone to water quality degradation.

The combination of SIZE and SHAPE allows the characterization of canals into 2 basic categories. The ratio of AREA to LENGTH can provide a general index of a canal as "finger-shaped" vs. "basin-shaped". Some basic assumptions are made about the general water quality performance of these two types of canals:

? **"Finger-shaped" canals will have the potential for greater nutrient loading** from the shoreline, and will tend to have more shoreline per unit volume than "basin-shaped canals"

? **"Finger-shaped" canals will likely have poorer circulation** from both the restrictions of the waterway, and the limited wind-driven circulation that may occur in a more open body of water (e.g. basin).

There are only 10 canals out of 480 that are "Jumbo" in size, that is a canal greater than 100,000 square meters in area (10 hectares or 24.7 acres).

TABLE 3: CHARACTERISTICS OF SIZE CATEGORIES OF CANALS
UNITS GIVEN IN HECTARES AND METERS

SIZE Category	Number of canals	Mean Area (hectares +/- standard deviation	Mean Length (meters +/- standard deviation)	Range of RATIO Area/Length
A. Jumbo – over 10 Hectares	**10**	**14.4 +/- 3.6**	**1892 +/- 808**	**4.0 to 15.6**
B. Large – less than 10 to over 2 hectares	**76**	**3.5 +/- 1.7**	**781 +/- 312**	**1.6 to 32.3**
C. Medium – 2	**135**	**1.1 +/- 0.3**	**411 +/- 178**	**0.3 to 21**

hectares to 0.6 hectares				
D. Small – less than 0.6 hectares	**260**	**0.3 +/- 0.1**	**176 +/- 94**	**0.7 to 5.4**

Level ii-

Wave and wind energy regime

A classification of "high", "medium" or "low" was developed relating to the wind and wave energy adjacent at the mouth of the canal system. The energy regime incorporates the orientation of the mouth of the canal, the adjacent body of water, depth and exposure to prevailing winds or storm events. The energy regime is an attempt to capture the likelihood of wind-driven flotsam or water masses to move into or out of the canal. The input of turbid water and organic material (e.g. seagrass) can impact the water quality of the canal system. Canal mouths opening to high energy shorelines are the most prone to high seaward organic loadings.

High energy shorelines have high wave and wind conditions. This shoreline may be a rocky shore and subjected to winds from both prevailing winds (SE) or from storm/frontal systems (NW to NE). The canal opening is exposed to open water with a long fetch, and frequently receives flotsam.

Residents of the Florida Keys have long reported the problem with flotsam entering canals, with the accumulating seaweed decaying and fouling the waterway. This has been the largest single water quality complaint from residents of particular canal systems, and has lead to innovative devices called "weed gates" or "bubble gates" to prevent wind-driven flotsam from entering the canal system. One of the predominant problematic conditions is when canal openings along Florida Bay face to the north-northwest-northeast (between 270 and 30 degrees) and are affected by storm/frontal systems. Flotsam may be a problem in many other conditions and is variable seasonally and different for ocean vs. bay side.

Under normal conditions, without dredged canals, this flotsam would have accumulated on the shoreline and would have been an important component of the land-sea nutrient dynamics. Seasonal accumulation of dead seagrass along the shoreline would have provided a food source for wading birds, and a long-term source of nutrients to coastal plant communities. In canal systems, this organic material accumulates in the canals, decomposes, and then sinks. The high BOD (Biochemical Oxygen Demand) of this organic material (algae and seagrass) causes many enclosed water bodies to develop anoxic layers, and increased sedimentation rates in the canal channel. Aesthetically, residents complain of the foul smell, unpleasing site of vegetation accumulation, and loss of clarity in the canal system. The problem of weed accumulation is specific to NE to NW facing canals along open, high-energy shorelines of the middle and lower Keys. This *seaward-input* of organic material is a separate water quality issue from land-based sources of pollutants, and can be mitigated by the maintenance of weed gates, and active flotsam removal.

APPENDIX B

TABLE 4 DEFINITIONS OF SHORELINE ENERGY CATEGORIES

HIGH	MEDIUM	LOW
Definition: High wave and wind conditions prevail on shoreline of canal opening. This shoreline may be rocky shore and subjected to winds from both prevailing winds (SE) or from storm/ frontal systems (NW to NE). The canal opening is exposed to open water with a long fetch, and frequently receives flotsam.	Definition: Moderate wave and wind conditions prevail on the shoreline of the canal opening. Shoreline may be a combination of rocky shore and mangrove shorelines. Canal opening may under certain wind conditions (frontal systems) be filled with flotsam.	Definition: Low wind and wave conditions prevail on the shoreline. Shoreline is/was mangrove shoreline or wetland, and canal opening very rarely accumulates flotsam by wind or wave action. The opening of the canal is highly protected by a channel or small embayment
Characteristics: • Canal likely to be dredged from high-energy shoreline. • High wind-driven exchange of water in the canal system. • Canal would tend to "trap" or fill with flotsam like dead seagrass and algae on a regular basis.	Characteristics: • Moderate energy shoreline likely to be or have been mangrove dominated • Medium wind-driven exchange of water in canal system only with extreme weather conditions • Canal can fill with flotsam only occasionally	Characteristics: • Low energy shoreline outside the canal system • Little wind-driven exchange of water between canal and adjacent marine environment. • Little to no flotsam accumulates in the canal system
Example: 150 Lower Matecumbe	Example: 280 Little Torch Key	Example: 74 Rock Harbor

Level iii-

There are several attributes that relate to canal construction. These include the original natural shoreline conditions and lithology that influences the fill materials and construction methodology, the number of convolutions, the number of mouths, and the nature of the outfall.

Canal Construction

The term "**residential canals**" refers to man-made waterways that intrude into the natural shoreline. The natural shoreline in the Florida Keys was either seagrass meadows, mangrove wetlands, or low-relief rocky shores (classification of coastal wetland and deepwater habitats is described in Cowardin et al 1979). The construction of canals included both dredging out the water way from upland areas as well as the filling of coastal wetlands (mangroves). The construction of the canal system may impact circulation and nutrient retention; the assumption being that canals constructed of fill will not retain nutrients and will have a greater potential for water quality degradation.

Old charts and aerial photographs were used to determine whether a particular canal system was mostly upland rock dredged or mangrove filled. Many canal systems are a combination of the two (dredge and fill development). The classification was based primarily on the construction of the seaward half of the canal system, particularly near the mouth or opening of the canals.

Big Pine Key Canals 297, 298, 299 and 300 (provide an example of straight finger canals that were dredged out of limestone into the upland pineland communities of Big Pine Key. The lots

required very little if any additional fill. Key Largo Canal 57, adjacent to Pennekamp Coral Reef State Park, represents a canal lot that was developed by the filling of mangrove wetlands. The fill generated from the canals was used to raise the elevation of adjacent lots for development. Homes along these canals are required to be constructed on stilts for flood protection.

Dredged canals that penetrate the upland areas of the Keys are often cut into carbonate rock, have hard limestone perimeters, and do not require bulk-heading. Dredging through these areas can damage freshwater lenses (ground water) and impact island hydrology. Fill canal systems that are created on the soft sediments of coastal wetlands often require retaining walls (bulk-heads) to maintain the canal and prevent shoreline erosion. Canal shorelines often must be maintained to prevent the collapse of the canal wall, and filling of the canal itself. Undeveloped canals can also be colonized by invasive exotic plants such as the Australian pine (Casaurina spp.).

Number of Convolutions

The number of convolutions or turns in the canals can greatly influence the flushing of the canal. The number of convolutions was scored by counting the number of 90 degree turns in the canals, giving each a score of "1". If there was a 45 degree turn, it was scored a 0.5. The greater the number of convolutions in the canals, the poorer the water quality performance of the waterway is likely to be. This canal system (Key Largo 60) has 11 convolutions.

Canal Mouths and Outfall:

Residential canals were attributed by the number of mouths or openings in a single canal. The more openings in a canal, the greater the circulation within the canal system is likely to be. The mouth of the canal can open into three different "conditions" of adjacent water. The depth of the mouth sill, and its configuration can hinder or facilitate turnover within the canal. "Canal Outfall" describes the conditions of the adjacent waters, and are described as follows:

TABLE 5 DEFINITION OF CANAL OUTFALLS

Dredged	This outfall classification has adjacent waters that are highly modified with dredged navigation channels, basins or fill islands. Marine environments likely to be highly disturbed. An example would be areas north of Key West where shorelines are filled, Salt Pond Keys are filled for development, and navigation channels constructed. This also includes the dredging along the shoreline, as seen along the western shore of Big Pine Key, to facilitate moving of watercraft to deeper water channels. Also includes canal systems that open into marinas or dredged basins.
Channel	The adjacent marine environment is a natural channel or tidal creek, usually between two islands, or a natural mangrove creek within an island-mangrove complex. These channels provide some amount of tidal flow and circulation.
Shallow Nearshore Environments	Canal opens to more or less natural shoreline with nearshore very shallow marine habitats – including hard bottom and seagrass areas. No obvious alterations to the seabed in the areas outside of the canal mouth. Often the access to these canals can be restricted during very low tides, and in the absence of a dredged channel, propeller scaring can be seen on the seabed.

APPENDIX B

Level IV – Level IV is derived from the percent developed attribute and has been classified by:

High – 70 % to 100% developed
Medium – greater than 30% to 70% developed
Low – 0% to 30% developed

Level IV includes a variety of factors relating to pollutant loading into a canal system. The degree of development was assumed to correlate with the potential degree of inputs including septage, storm water runoff and other human influences that might degrade water quality. The degree of development was based on visual observation of the percentage of the shoreline that was developed using the 1998 aerial map. The assumption is that the greater the housing density in the canals, the poorer the water quality performance of the waterway is likely to be. Water quality degradation is also impacted by the amount and type of vegetation adjacent to the canal systems. All other factors being equal, a canal system populated by numerous small homes with pea-rock yards is likely to have much poorer water quality that a canal with few homes vegetated with native plants.

Exotic invasive plant species such as the Australian pine can also contribute to water quality degradation by restricting the growth of other shrubs, eroding the shoreline and dropping leaf litter into the canals.

Canal_outf – Canal outfalls into – this is the named body of water into which the canal outfalls.

Description of canal outfall – Description of waters at outfall – this is a description of the water at the outfall, for example, canals that outfall to Florida Bay have a outfall that is described as Shallow Nearshore.

Adjacent_to Basin – Adjacent to a marina – this is a yes (Y) or no (N) depending on whether the canal is adjacent to a marina; typically these are canals in which a marina is found either at the dead end or mouth of the canal.

Degree_of_Convolution- This is a numerical value that was assigned (visually) based on the number of 90 degree turns. A full 90-degree turn has a value of 1.0; a 45-degree turn has a value of 0.5.

%Natural (ZNatural)– Natural shoreline - this provides information about the nature of the canal bank, it is a percentage of the shoreline that was left natural and is based on visual observation using the 1998 aerial map.

%Developed (ZDeveloped)– Developed shoreline - this provides information about the nature of the canal bank, it is a percentage of the shoreline that was developed and is based on visual observation using the 1998 aerial map.

Fill/dredge – Fill or dredge - this indicates how the canal was constructed, i.e., either by filling of coastal wetlands (mangroves) or dredging of limestone bedrock.

No_of_mouth – Number of mouths: number of mouths opening to open water. If the canal is plugged the number is 0

APPENDIX B

Energy_at_- Energy at outfall – this describes the energy of the body of water into which the canal outfalls, for example, Florida Bay is generally low energy as opposed to Tavernier Creek which is medium energy.

Orientatio – Orientation at the mouth: orientation that was visually assigned based on the direction (heading) you would be facing if you were driving out of the canal to open water.

Area_m2_ – This is the area (in meters) calculated from the canal polygon.

Acres – This is the area (in acres) calculated from the canal polygon.

X_coord – X-coordinate – this was obtained from a center point in each canal polygon.

Y_coord – Y-coordinate – this was obtained from a center point in each canal polygon.

Two parameters were used from the GIS database to calculate this: the total area of the canal (in square meters) and maximum distance from the mouth of the canal (in meters).

A_I_ratio (AREA TO LENGTH RATIO) - The ratio of AREA to LENGTH can provide a general index of a canal as "finger-shaped" vs. "basin-shaped". The Area to length ratio is a relative index used to characterize the shape of canals. Canals were either very long and finger-like (with a small area to distance ratio) or basin-like (with a larger area to longest distance)

The formula used was (Area/Length) / 10.

The division by 10 brought the values to range from 0.35 to 32.26. The median value of this ratio for all 478 canals was 1.91. This means most canals in the Florida Keys are small, finger canals.

Area compared to A/L ratio (as described above) for the 76 Large Canals. There is a tendency in this category for canals to be more finger-like, with only a slight change in A/L ratio with increase in size. 223 Marathon Canal is unusual is the size of the basin in this canal, and its depth. This is a unique canal in Keys. Large canals range from over 20,000 m2 to up to 89,857 m2.

Most of the canals in the Florida Keys are very small, with a small A/L ratio. The most common canals are then a single "finger" with a total area of less than 3000 square meters. The two unusual canals that are slightly more-basin shaped are labeled.

Canal_dept – Canal depth (ft) - This information was obtained from various sources such as homeowners, real estate companies, personal knowledge, field verifications and DEP; however this information was not readily available for each canal. Based on the information we were able to obtain, we used 15 feet (4.57 meters) as the default depth. Monroe County will have to update this information as it becomes available.

Depth_m - Depth (m) - This information was obtained from various sources such as homeowners, real estate companies, personal knowledge, field verifications and DEP; however this information was not readily available for each canal. Based on the information we were able to obtain, we used 15 feet (4.57 meters) as the default depth. Monroe County will have to update this information as it becomes available.

Perimeter– This is the perimeter (in meters) calculated from the canal polygon.

APPENDIX B

Length_m – Longest distance – this is the longest distance (in meters) from mouth to the furthest end of the canal in meters.

Length km – Longest distance – this is the longest distance from mouth to the furthest end of the canal in kilometers.

Volume_m3 - This is the volume (in cubic meters) calculated from the depth (in meters) and the area.

Hectares – Residential Canal polygon area in hectares.

Modificati – Modifications - this provides information about physical improvements made to a canal that may affect water quality, such as existence of culverts.

Remarks – Remarks – this column was used for miscellaneous remarks.

Salinity - Data available for the canal, Yes or No (Y or N). Salinity was originally measured as the mass of dissolved salts in a given mass of seawater. Salinity is expressed in parts per thousand or **ppt.** The definition of salinity has changed over the years as new techniques have been developed. Salinity is not directly measured; new techniques involve measuring conductivity or refractivity. Most measurements in the Florida Keys today use conductivity to calculate a salinity value. Salinity and temperature are mass parameters and control the vertical stratification of water in canals.

Chla - Chlorophyll a - Data available for the canal, Yes or No (Y or N). The concentration of phytoplankton pigments in the water column is often used as an indirect measure of water quality. Units are given in micrograms of chlorophyll-a per liter of seawater. Because nutrients are extremely limiting in most tropical marine systems, the inputs of nutrients will rapidly be converted to benthic or planktonic algae biomass. Chlorophyll-a is determined by filtering water from the canals onto a filter, and subsequent analysis of the fluorescence after cell cleavage.

Nutrients - Data available for the canal, Yes or No (Y or N). In shallow, tropical marine systems, nutrients are usually in a very limited supply. Nutrient values are given in micrograms of Nitrogen or Phosphorus per liter of seawater. Limiting nutrients focus on Nitrogen and Phosphorus availability in both dissolved and particulate forms. Nutrients are typically depleted in nearshore seagrass beds or mangrove wetlands, and tightly recycled within the larger ecological system, providing the water clarity needed for coral growth. The composition of species (animals, microbes and plants) varies in response to nutrient availability and environmental conditions within a canal.

Oxygen - Data available for the canal, Yes or No (Y or N). Oxygen is important in advective processes and biological processes. Oxygen is dependent on temperature and to a lesser extent salinity. Oxygen can be expressed as a percent saturation but is best expressed in **milligrams of oxygen per liter of seawater**. Oxygen measurements were historically done by titration, but now are accomplished with electrodes that require calibration. Solubility of oxygen decreases with increasing temperature. In pollution discharge areas, reduced levels of oxygen occur due to increased bacterial oxidation. Dissolved oxygen concentrations of 4 to 5 mg/liter are normally acceptable EPA (Environmental Protection Agency) criteria for marine and estuarine environments.

APPENDIX B

Temp - Data available for the canal, Yes or No (Y or N). Temperature measurements are included in analysis if methods accounted for calibration of thermometer or thermistors. Values are given in **degrees Celsius**. Temperature partially defines the density of seawater. Temperature varies naturally with diurnal and season changes, as well as with vertical distribution in the water column. Temperature specifically affects the metabolism of organisms. The Florida Keys is the northern limit of tropical fauna such as corals and reef fishes; cold fronts can reduce temperatures to 14 degrees C or lower, and be a major factor in limiting distribution of tropical fauna.

Data Quality - The is a subjective evaluation of the usefulness of the water quality data based on three criteria:

- Is there sufficient metadata to evaluate the methodology used for parameter measurements; are methods up to EPA standards?
- Is there sufficient sampling done to capture diurnal, tidal and seasonal variability that may occur in the canal?
- Are measurements available electronically for analysis?

Data is ranked as "**Good**" = all three questions have favorable responses, "**Fair**" = data missing one of the three criteria, the first criteria being the most critical, and "**Poor**" = data exists, but meets none of the above criteria.

The following fields are PRIMARY water quality parameters used in the assessment of water quality conditions within the canal. The spreadsheet will indicate Y = Yes or N = No for the availability of data for each parameter over DIURNAL, TIDAL and SEASONAL cycles. If there is sufficient data then a box plot analysis of the canal can be completed. The U.S. Environmental Protection Agency has established standards and protocols for the collection of water quality data. Technology and methods have improved accuracy and precision over time, thus often it is difficult to compare temporal data sets of water quality when parameters were measured using different methods and instrumentation. Water quality analysis for most monitoring programs in the Florida Keys is carried out by the South Florida Environmental Research Center at Florida International University. Updates on water quality monitoring programs and methods can be obtained at the website ***http://fiu.edu/wqmnetwork/Reports***

Station_nu - Station number designated in original water quality report.

Wq_source - Water quality - if water quality data are known to be available in electronic GIS compatible Format and of good data quality for a particular canal, the source of the data is listed here. Note, while much water quality data has been collected, the precise location was generally not available. In some cases we estimated the location, in other cases there was not sufficient data to even estimate the canal from which the data was collected and it therefore is not included in this table.

Zoning – This was obtained from Monroe County's Wastewater Master Plan; the parcels did not directly correspond, however, MACTEC performed a buffer analysis to align data with canal layer. This provides an indication of the surrounding land use.

Orientati1_ - Orientation 1 – to use the Orientation of the mouth for sorting purposes, each heading was entered into separate columns to allow for multiple headings at canals with multiple mouths. This is the column used for canals with one or more mouths.

Orientati2 - Orientation 2 – to use the Orientation of the mouth for sorting purposes, each heading was entered into separate columns to allow for multiple headings at canals with multiple mouths. This is the second heading for canals with two or more mouths.

APPENDIX B

Orientati3 - Orientation 3 – to use the Orientation of the mouth for sorting purposes, each heading was entered into separate columns to allow for multiple headings at canals with multiple mouths. This is the third heading for canals with three or more mouths.

Orientati4 - Orientation 4 – to use the Orientation of the mouth for sorting purposes, each heading was entered into separate columns to allow for multiple headings at canals with multiple mouths. This is the fourth heading for canals with four or more mouths.

Orientati5 - Orientation 5 – to use the Orientation of the mouth for sorting purposes, each heading was entered into separate columns to allow for multiple headings at canals with multiple mouths. This is the fifth heading for canals with five or more mouths.

Orientati6 - Orientation 6 – to use the Orientation of the mouth for sorting purposes, each heading was entered into separate columns to allow for multiple headings at canals with multiple mouths. This is the sixth heading for canals with six or more mouths.

Orientati7 - Orientation 7 – to use the Orientation of the mouth for sorting purposes, each heading was entered into separate columns to allow for multiple headings at canals with multiple mouths. This is the seventh heading for canals with seven or more mouths.

No_of_inpu – this was obtained from Monroe County's Wastewater Master Plan; the parcels did not directly correspond, however, MACTEC performed a buffer analysis to align data with canal layer.

The AML (program) used for automating the calculation of numbers and treatment types at each canals is included below.
The process for calculating the number of overlapping parcels and different types of wastewater treatment types were:

1. Convert the existing shape files from Miami into Arc/Info coverages. This allows A/I to work with the data in a more natural data environment. Shape files that were converted were adjacent parcel canal.shp and canals populated2.shp.
2. The resulting canals coverage was buffered by 4 meters to determine which adjacent parcels overlapped the canals.
3. The resulting buffered canals coverage was then used to overlap the parcels coverage. The resulting number of parcels selected was the number returned to the number_of_ field in the original canals coverage and entered.
4. While finding the number of parcels overlayed with the buffered canals each of the selected parcels records was examined to determine the wastewater treatment type. If the treatment type was unique the value was placed into a string and calculated into the original canals coverage in the nature field. Other unique treatment types were concatenated to the string and recalculated into the canals coverage.
5. After calculating the values for the canals coverage the data layer was exported back into a shape file format.
6. An initial QA/QC was done on the shape file before being submitted.

Na_of_inpu this actually is the input listed in the Monroe County Wastewater Master Plan and corresponds to the wastewater treatment type.

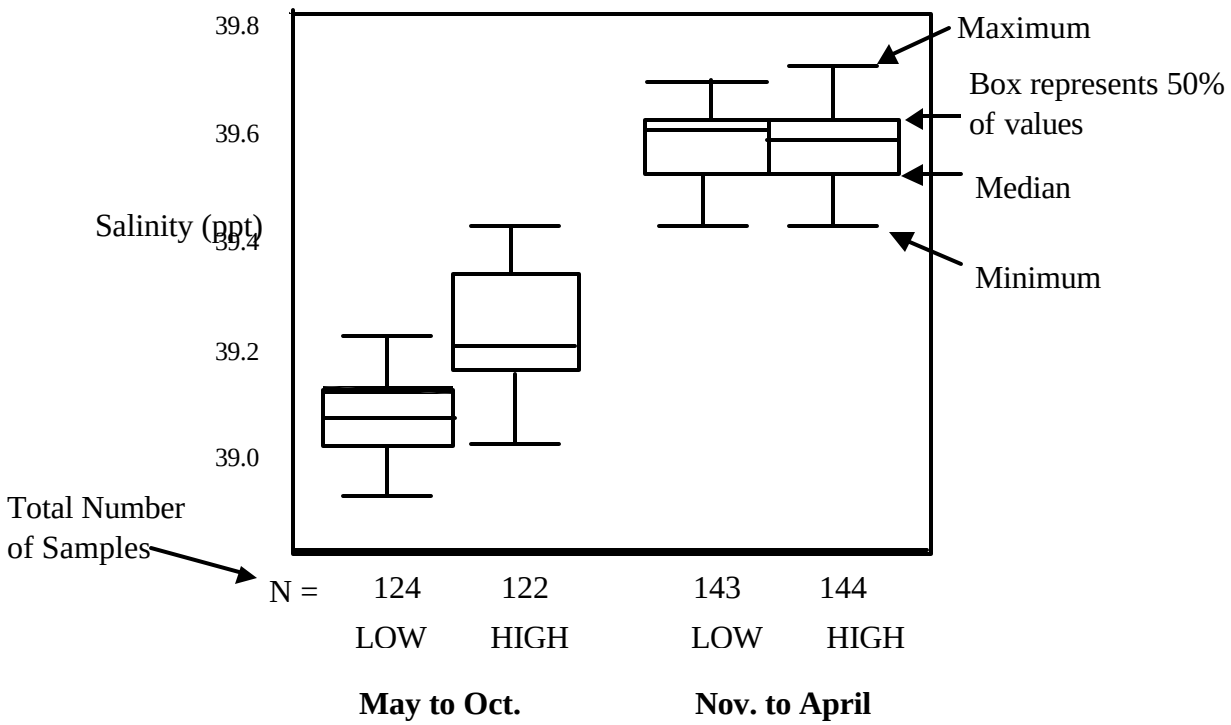
APPENDIX B

Year_built – Year WWT Built - this actually is the year listed in the Monroe County Wastewater Master Plan and corresponds to the year a wastewater facility was constructed, not necessarily the year the canal was constructed.

Popul_1990 – Population (1990) – This information was obtained from the Monroe County Wastewater Master Plan, which included population information from the 1990 census. This provides some indication of the density and therefore the stormwater inputs.

Linked_PDF- Column contain the necessary file path to the corresponding water quality summary PDF file linked to the particular canal

WATER QUALITY Performance for residential canals can be compared by creating box plots to capture seasonal and tidal variability for certain water quality parameters. The box plots can indicate two aspects of water quality: the central tendency of a parameter, and the range of variability of these parameters. For example, the following box plot illustrates difference in salinity for between seasons and tides for one canal system (55 Key Largo) in the Florida Keys. Salinity is slightly higher in the winter (drier months) than in the summer. There appears to be good circulation in this small canal with tidal mixing and change in salinity values between high and low tides. There are less tidal differences in the winter than in the summer. Salinity values appear consistent with salinity values for nearshore Keys waters.



Water quality performance in residential canals can be compared by examining the box plots for four different canals from each of the size groups in the classification: small, medium, large and jumbo. The assumptions made on water quality performance is that unless there is strong circulation through the canal systems (e.g. 164 Duck Key), the larger canals will have poor water

quality than smaller canals, as manifested by a central tendency of parameters to be different in the canals from nearshore keys water.

In terms of variability, some parameters will not vary in canal systems. Natural waters create a dynamic ecological system by seasonal, tidal and diurnal variability. The questions to investigate is not whether variability exists, but whether variability within the canal systems is similar to variability in nearshore waters.

Water quality summaries for canal data require creating a data summary then summary plot for each parameter. The following steps are used:

1. Consolidate all the data from one canal system (could be several water quality sampling stations) into a single spreadsheet.
2. Annotate each data point as to season and tide (Baywatch stations are taken at high and low tides already).
3. Sort by season (Group months as May to October, November to April). Seasons are set on the two months with greatest annual temperature range , May and October. The average date of the first cold front to pass through south Florida is 20 October, and late May is the end of the dry season, start of summer afternoon thunderstorm pattern in the weather).
4. Sort by season, then tides to get FOUR groups of data points:
    a. May to October – High tide
    b. May to October – Low tide
    c. November to April – High tide
    d. November to April – Low tide

5. Calculate summary statistics for each of the four groups:
    a. Mean and medium
    b. Standard Deviation
    c. Maximum
    d. Minimum
6. From inspection of these statistics, determine if the datasets include any outliers or spurious data points (values more than 3 standard deviations from the mean); find the value of "whiskers" in box plot.
7. Determine the range of 50% of the values (limits of "box")
8. Plug in values to Box plot template for each parameter,
9. Evaluate variation in parameters compared to Florida Keys nearshore water. Is the box plot for the canal data high or lower? Is the box and whiskers larger (greater variability) or smaller (less variability) compared to plots for nearshore waters?

Sample of station summary data

Station	**256 Marathon (Flamingo Island)**
Duration of sampling	06/02/94 to 02/05/01
Seasonal	Yes
Tidal	Yes
Diurnal	No
Number of data points	324
Parameters used	Temperature, Salinity, Nutrients (total N and P), Chlorophyll a

APPENDIX B

Table 1: Example ranges (maximum and minimum) for salinity, temperature, dissolved oxygen, turbidity, total nitrogen, total phosphorus, and chlorophyll-a concentration for surface nearshore waters in the Florida Keys. The most comprehensive data set is now online through the Florida Keys Water Quality Protection Program for the Florida Keys National Marine Sanctuary (Jones and Boyer 2001). These values can be used as a guideline for evaluation of residential canal water quality studies.

PARAMETER	Range (MIN - MAX)	MEDIAN VALUE	Seasonal Values	Reference
Salinity (ppt)	35.6-42.5		Higher during summer	Lapointe and Clark (1990)
	28.0-38.0		Higher during summer	Skinner and Corcoran (1987)
	34.5-37.9		Higher during summer	Springer and McErlean (1962)
	29.5 – 40.0	36.3		Cluster 5, Jones and Boyer (2001)
Temperature (^{o}C)	21.8-33.5		Higher during summer	Lapointe and Clark (1990)
	19.0-32.0		Higher during summer	Mathieson and Dawes (1975)
	< 16		Passage of cold front	Roberts et al. (1983)
	16.6-33.3		Higher during summer	Skinner and Corcoran (1987)
	15.1-39.6	27.9	Larger inter-annual variability	Lapointe and Clark (1990)
Dissolved oxygen (mg/l)	3.65-7.03		Higher during winter	Lapointe and Clark (1990)
Turbidity (NTU)	0.15-20.25		Higher during winter	Cluster 5, Jones and Boyer (2001)
				Lapointe and Clark (1990)
Total Nitrogen (µM)	2.21-10.36		Higher during summer	Lapointe et al. (1994)
	21.29-55.00		Not consistent	Szmant (1991)

APPENDIX B

PARAMETER	Range (MIN - MAX)	MEDIAN VALUE	Seasonal Values	Reference
	12.50-37.50		Summer range	Cluster 5, Jones and Boyer (2001)
	1.78 – 85.88	13.25		Lapointe and Clark (1990)
Total Phosphorous (µM)	0.12-4.09		Not consistent	Cluster 5, Jones and Boyer (2001)
	0.02 - 0.62	0.20	Variable and patchy in nearshore waters	Lapointe and Clark (1990)
Chlorophyll-a (µg/l)	0.06-15.51		Higher during summer	Cluster 5, Jones and Boyer (2001)
	0 – 1.79	0.23	Variability in methods between researchers	

APPENDIX B

USER NOTES:

Canal was developed by digitizing separate polygons for each visible residential from the 1998 scanned Florida Department of Transportation (FDOT) aerial photographs. Images have 2m pixels.

FGDL QUALITY ASSURANCE STATUS:

Final QA Performed upon creation

REFERENCES:

C:\Monroe Canals\Final GIS\ Table 1 – Bibliography.xls

DATA LINEAGE SUMMARY:

Source material for this layer includes Florida Department of Transportation (FDOT) aerial photographs. Images have 2m pixels.

MAP PROJECTION PARAMETERS

Projection	LBERS
Units	METERS
Datum	HPGN
Spheroid	GRS1980
1st standard parallel	24 0 0.000
2nd standard parallel	31 30 0.000
central meridian	- 84 0 0.000
latitude of projection's origin	24 0 0.000
false easting (meters)	400000.00000
false northing (meters)	0.00000

DATA SOURCES CONTACT(S):

Name: ALEX J. ALAMO GIS COORDINATOR
MACTEC ENGINEERING AND CONSULTING, Inc.

Abbr.name:	MACTEC
Address:	5845 NW 158 STREET
	MIAMI, FL 33014
Phone:	(305) 826-5588

MACTEC CONTACT:

Name:	ALEX J. ALAMO GIS COORDINATOR
Abbr. Name:	MACTEC
Address:	5845 NW 158 STREET
	MIAMI, FL 33014
Phone:	(305) 826-5588

MONROE COUNTY CANAL INVENTORY AND ASSESSMENT WATER QUALITY LAYER 100% MACTEC ENGINEERING AND CONSULTING, RELEASED NOVEMBER, 2002.

Geodataset Name: Water Quality Layer
Geodataset Type: SHAPE
Geodataset Feature: Point

GENERAL DESCRIPTION:

This dataset contains all the Monroe County Water Quality stations available and referenced in the bibliography. Data was included based on compatibility to the GIS canal layer.

DATA SOURCE(S): The data was derived 15 different sources see bibliography.

DATE OF AUTOMATION OR SOURCE: 2002

GEODATASET EXTENT: Monroe County, Florida

FEATURE ATTRIBUTE TABLES

Data file Name: WATER QUALITY LAYER 100%.DBF

Alias	Type	Width	Decimal
X_coord,	FIELD_DECIMAL,	18,	5
Y_coord,	FIELD_DECIMAL,	18,	5
Ref_number,	FIELD_DECIMAL,	16,	0
Key_name,	FIELD_CHAR,	50,	0
Source,	FIELD_CHAR,	254,	0
Source_dat,	FIELD_CHAR,	16,	0
Bibliograp,	FIELD_CHAR,	30,	0

FEATURE ATTRIBUTE TABLES CODES AND VALUES:

X_coord – X-coordinate – this was obtained for each station location.

Y_coord – Y-coordinate – this was obtained for each station location.

Ref_number - reference number given to each point within an area of study, based on station number assigned by the study. If no station number was available a sequential number was given.

Key_name , Is unique name given to describe location of sampling station.

Source, The name/title of the source document**.**

Source_dat, The year the source document was produced

Bibliograp, Reference number to reference the source document to the Bibliography ID number

USER NOTES:

This dataset contains all the Monroe County Water Quality stations available and referenced in the bibliography. Data was included based on compatibility to the GIS canal layer.

FGDL QUALITY ASSURANCE STATUS:

QA was performed upon completion.

REFERENCES:

C:\Monroe Canals\Final GIS\ Table 1 – Bibliography.xls

DATA LINEAGE SUMMARY:

Source material for this layer are included in the bibliography.

MAP PROJECTION PARAMETERS

Projection	ALBERS
Units	METERS
Datum	HPGN
Spheroid	GRS1980
1st standard parallel	24 0 0.000
2nd standard parallel	31 30 0.000
central meridian -	84 0 0.000
latitude of projection's origin	24 0 0.000
false easting (meters)	400000.00000
false northing (meters)	0.00000

DATA SOURCES CONTACT(S):

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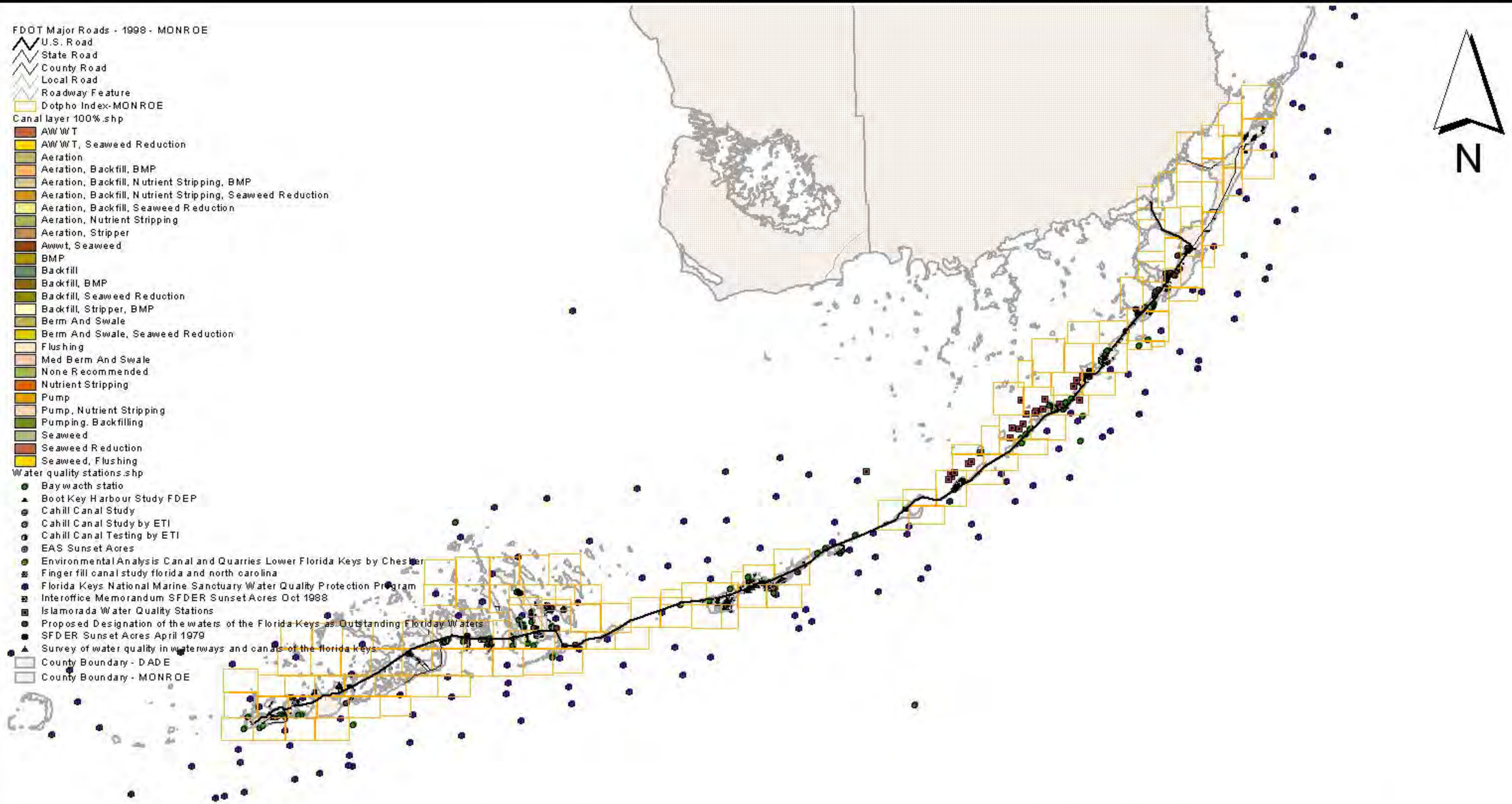

10 0 10 20 30 Miles

MACTEC PROJECT NUMBER: 40700-1-2681

MACTEC

MONROE COUNTY CANAL INVENTORY AND ASSESSMENT LAYER 100%

DRAWN BY: AJA	DATE: 11/12/02
CHECKED BY: AA	SCALE: AS SHOWN

0.2 0 0.2 Miles

MACTEC PROJECT NUMBER: 40700-1-2681

MACTEC

MONROE COUNTY CANAL INVENTORY AND ASSESSMENT LAYER 100%

DRAWN BY: AJA	DATE: 11/12/02
CHECKED BY: AA	SCALE: AS SHOWN

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
1 OCEAN REEF CLUB	Berm And Swale, BMPs, AWWT/SWM	Poor	A.JUMBO	II.B	III.B	Med	Angle Fish Creek	Channel	N	10	50	50	Fill	3	Medium	45, 90,355	112365.8	2.58	775839.329
2 OCEAN REEF CLUB	Berm And Swale, BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Hawk Channel	Shallow Nearshore	N	5.5	0	100	Fill	1	Medium	135	87144.94	2.001	774754.310
3 OCEAN REEF CLUB	Berm And Swale, BMPs, AWWT/SWM	Poor	A.JUMBO	II.B	III.B	High	Card sound	Spoil Area	N	12.5	0	100	Fill	3	Medium	0, 270, 270	183027.5	4.202	773298.201
4 OCEAN REEF CLUB	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Hawk Channel	Spoil Area	N	7	0	100	Fill	2	Medium	225, 135	89857.68	2.063	774698.008
5 OCEAN REEF CLUB	Berm And Swale, BMPs, AWWT/SWM	Poor	A.JUMBO	II.C	III.B	Med	Little Dispatch Creek	Channel	Y	3.5	50	50	Fill	1	Low	90	126919.8	2.914	773049.208
6 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Manatee Bay	Spoil Area	N	0	0	100	Fill	1	Low	0	986.474	0.023	759077.228
7 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Manatee Bay	Spoil Area	N	1	0	100	Fill	1	Low	0	2827.892	0.065	759028.768
8 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Manatee Bay	Spoil Area	N	0	0	100	Fill	1	Low	0	1296.857	0.03	759124.671
9 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Manatee Bay	Spoil Area	N	0	0	100	Fill	1	Low	0	919.065	0.021	759171.472
10 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Manatee Bay	Spoil Area	N	0	0	100	Fill	1	Low	0	956.88	0.022	759216.351
11 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Manatee Bay	Spoil Area	N	0	0	100	Fill	1	Low	0	1053.061	0.024	759260.588
12 KEY LARGO	Pumping, Nutrient Removal, BMPs, AWWT/SWM	Fair	D.SMALL	II.C	III.B	High	Manatee Bay	Spoil Area	N	0	0	100	Fill	1	Low	90	831.104	0.019	759195.194
13 KEY LARGO	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Manatee Bay	Spoil Area	Y	12	0	100	Fill	1	Low	180	20391.38	0.468	759091.410
14 KEY LARGO	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Manatee Bay	Spoil Area	N	0	0	100	Fill	1	Low	170	7752.863	0.178	758970.162
15 KEY LARGO	Pumping, Nutrient Removal, BMPs, AWWT/SWM	Fair	D.SMALL	II.C	III.B	High	Manatee Bay	Spoil Area	N	0	0	100	Fill	1	Low	90	720.126	0.017	759197.758
16 KEY LARGO	Pumping, BMPs, AWWT/SWM	Fair	D.SMALL	II.C	III.B	High	Manatee Bay	Spoil Area	N	0	0	100	Fill	1	Low	90	436.515	0.01	759199.040
17 KEY LARGO	Berm And Swale, BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.A	Low	Barnes Sound	Shallow Nearshore	N	0	100	0	Dredge	1	Medium	270	27752.25	0.637	768317.901
18 KEY LARGO	Berm And Swale, BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.A	Low	Barnes Sound	Shallow Nearshore	N	0	100	0	Dredge	1	Medium	270	47489.85	1.09	768121.318
19 KEY LARGO	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	Low	Hawk Channel	Spoil Area	N	3	100	0	Dredge	1	Medium	90	11358.14	0.261	768680.150
20 KEY LARGO	Physical Connection, BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.A	Low	Hawk Channel	Plugged	N	2	100	0	Dredge	0	Medium	NA	22256.1	0.511	767160.782
21 KEY LARGO	Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Lake Surprise	Spoil Area	N	4	15	85	Fill	1	Low	0	18218.85	0.418	764689.888
22 KEY LARGO	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Garden Cove	Shallow Nearshore	N	0	0	100	Fill	1	Medium	90	10228.51	0.235	765544.411
23 KEY LARGO	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Garden Cove	Shallow Nearshore	N	0	0	100	Fill	1	Medium	90	8017.657	0.184	765521.341
24 KEY LARGO	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	6	0	100	Fill	1	Medium	270	29586.37	0.679	764346.837
25 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	0	0	100	Fill	1	Medium	270	2719.031	0.062	764185.427
26 KEY LARGO	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	3.5	0	100	Fill	1	Medium	325	10455.06	0.24	764104.736
27 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	0	0	100	Fill	1	Medium	0	2908.717	0.067	764028.884
28 KEY LARGO	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	1	0	100	Fill	1	Medium	270	6378.594	0.146	764217.383
29 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	0	0	100	Fill	1	Medium	270	3075.168	0.071	764042.889
30 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	0	0	100	Fill	1	Medium	270	5192.412	0.119	763998.281
31 KEY LARGO	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	1.5	0	100	Fill	1	Medium	315	11066.65	0.254	763230.309
32 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	0	0	100	Fill	1	Medium	0	1874.83	0.043	763492.435
33 KEY LARGO	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	0	0	100	Fill	1	Medium	270	8410.663	0.193	763517.809
34 KEY LARGO	Backfilling, BMPs, AWWT/SWM	Fair	D.SMALL	II.B	III.A	High	Blackwater Sound	Shallow Nearshore	N	0	0	100	Dredge	1	Medium	270	3339.503	0.077	763240.778

Set 1 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
1 OCEAN REEF CLUB	153109.387	5.49	5.49	4.57	4882.479	2047.252	2.050	513511	11.237											
2 OCEAN REEF CLUB	152141.821	10.6	10.6	4.57	3464.758	821.961	0.820	398252	8.714											RM-8
3 OCEAN REEF CLUB	152086.053	15.03	15.03	4.57	7656.694	1217.625	1.220	836436	18.303											
4 OCEAN REEF CLUB	151664.061	6.27	6.27	4.57	3840.436	1432.798	1.430	410650	8.986											RM-8
5 OCEAN REEF CLUB	150307.141	6.92	6.92	4.57	4510.629	1833.657	1.830	580023	12.692											
6 KEY LARGO	142211.794	1.06	1.06	4.57	202.989	92.889	0.090	4508	0.099											
7 KEY LARGO	142210.512	1.6	1.6	4.57	373.902	176.466	0.180	12923	0.283											
8 KEY LARGO	142182.418	1.27	1.27	4.57	221.031	102.467	0.100	5927	0.130											
9 KEY LARGO	142138.707	0.97	0.97	4.57	201.419	95.197	0.100	4200	0.092											
10 KEY LARGO	142123.320	1.12	1.12	4.57	188.861	85.247	0.090	4373	0.096											
11 KEY LARGO	142116.268	1.2	1.2	4.57	201.556	87.619	0.090	4812	0.105											
12 KEY LARGO	142016.895	1.56	1.56	4.57	131.047	53.132	0.050	3798	0.083											
13 KEY LARGO	141959.376	4.91	4.91	4.57	1866.959	415.604	0.420	93189	2.039											
14 KEY LARGO	141959.194	2.35	2.35	4.57	693.458	329.684	0.330	35431	0.775											
15 KEY LARGO	141951.501	1.39	1.39	4.57	122.875	51.958	0.050	3291	0.072											
16 KEY LARGO	141890.595	0.9	0.9	4.57	111.273	48.539	0.050	1995	0.044											
17 KEY LARGO	140977.789	6.47	6.47	4.57	1698.590	428.778	0.430	126828	2.775											
18 KEY LARGO	140590.742	6.92	6.92	4.57	1800.211	685.944	0.690	217029	4.749											
19 KEY LARGO	139639.487	2.62	2.62	4.57	1388.167	434.236	0.430	51907	1.136											
20 KEY LARGO	137785.211	1.59	1.59	4.57	2856.216	1401.158	1.400	101710	2.226											
21 KEY LARGO	135348.092	7.93	7.93	5.49	2564.571	229.855	0.230	100021	1.822											MC
22 KEY LARGO	135093.663	2.5	2.5	4.57	859.691	409.398	0.410	46744	1.023											MC
23 KEY LARGO	134970.475	2.23	2.23	4.57	788.920	359.025	0.360	36641	0.802											RM-8
24 KEY LARGO	134895.115	3.99	3.99	4.27	4328.081	741.626	0.740	126334	2.959											RH-12
25 KEY LARGO	134683.607	1.29	1.29	4.57	434.441	210.953	0.210	12426	0.272											RH-12
26 KEY LARGO	134541.481	2.74	2.74	4.57	1341.112	381.769	0.380	47780	1.046											RH-12
27 KEY LARGO	134534.226	1.58	1.58	4.57	395.412	184.469	0.180	13293	0.291											RH-12
28 KEY LARGO	134384.469	1.79	1.79	4.57	771.410	356.189	0.360	29150	0.638											RH-12
29 KEY LARGO	134336.565	1.41	1.41	4.57	458.723	217.910	0.220	14054	0.308											RH-12
30 KEY LARGO	134250.629	1.43	1.43	4.57	734.700	362.171	0.360	23729	0.519											RH-12
31 KEY LARGO	133937.907	2.13	2.13	4.57	1726.620	520.594	0.520	50575	1.107			Y	Y	Y	N	Y	GOOD	#85	Bay Watch	RM-8
32 KEY LARGO	133880.507	1.59	1.59	4.57	261.394	118.021	0.120	8568	0.187											
33 KEY LARGO	133744.265	1.1	1.1	4.57	1545.252	762.771	0.760	38437	0.841											RM-8
34 KEY LARGO	132905.524	1.83	1.83	4.57	402.131	182.787	0.180	15262	0.334											

Set 1 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
1 OCEAN REEF CLUB	45	90	355									c:\residential canal\linked\Jumbo Canals.pdf
2 OCEAN REEF CLUB	135							46	FDEP SECOND,	1980	523	c:\residential canal\linked\Large Canals.pdf
3 OCEAN REEF CLUB	0	270	270					1	NULL	0	897	c:\residential canal\linked\Jumbo Canals.pdf
4 OCEAN REEF CLUB	225	135						67	FDEP SECOND,	1997	523	c:\residential canal\linked\Large Canals.pdf
5 OCEAN REEF CLUB												c:\residential canal\linked\Jumbo Canals.pdf
6 KEY LARGO	0							0	NULL	0		c:\residential canal\linked\Small Canals.pdf
7 KEY LARGO	0							0	NULL	0		c:\residential canal\linked\Small Canals.pdf
8 KEY LARGO	0							0	NULL	0		c:\residential canal\linked\Small Canals.pdf
9 KEY LARGO	0							0	NULL	0	897	c:\residential canal\linked\Small Canals.pdf
10 KEY LARGO	0							0	NULL	0	897	c:\residential canal\linked\Small Canals.pdf
11 KEY LARGO	0							0	NULL	0	897	c:\residential canal\linked\Small Canals.pdf
12 KEY LARGO	90							0	NULL	0	897	c:\residential canal\linked\Small Canals.pdf
13 KEY LARGO	180							0	NULL	0	897	c:\residential canal\linked\Large Canals.pdf
14 KEY LARGO	170							0	NULL	0	897	c:\residential canal\linked\Medium Canals.pdf
15 KEY LARGO	90							0	NULL	0	897	c:\residential canal\linked\Small Canals.pdf
16 KEY LARGO	90							0	NULL	0	897	c:\residential canal\linked\Small Canals.pdf
17 KEY LARGO	270											c:\residential canal\linked\Large Canals.pdf
18 KEY LARGO												c:\residential canal\linked\Large Canals.pdf
19 KEY LARGO	90											c:\residential canal\linked\Medium Canals.pdf
20 KEY LARGO	NA											c:\residential canal\linked\Large Canals.pdf
21 KEY LARGO	0							15	UNKNOWN SYSTEM, NULL	0	839	c:\residential canal\linked\Medium Canals.pdf
22 KEY LARGO	90							15	UNKNOWN SYSTEM, SEPTIC TANK, NULL	1966	1117	c:\residential canal\linked\Medium Canals.pdf
23 KEY LARGO	90							19	UNKNOWN SYSTEM, NULL	1997	1117	c:\residential canal\linked\Medium Canals.pdf
24 KEY LARGO	270							155	FDEP SECOND,	0	839	c:\residential canal\linked\Large Canals.pdf
25 KEY LARGO	270							16	NULL	0	839	c:\residential canal\linked\Small Canals.pdf
26 KEY LARGO	325							50	UNKNOWN SYSTEM, NULL	1968	839	c:\residential canal\linked\Medium Canals.pdf
27 KEY LARGO	0							10	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1977	839	c:\residential canal\linked\Small Canals.pdf
28 KEY LARGO	270							11	UNKNOWN SYSTEM, NULL	1984	839	c:\residential canal\linked\Medium Canals.pdf
29 KEY LARGO	270							15	UNKNOWN SYSTEM, SEPTIC TANK,	1968	839	c:\residential canal\linked\Small Canals.pdf
30 KEY LARGO	270							21	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1975	1117	c:\residential canal\linked\Small Canals.pdf
31 KEY LARGO	315							37	UNKNOWN SYSTEM, NULL	0	1117	c:\residential canal\linked\Medium Canals.pdf
32 KEY LARGO	0							7	UNKNOWN SYSTEM, NULL	0	1117	c:\residential canal\linked\Small Canals.pdf
33 KEY LARGO	270							34	UNKNOWN SYSTEM, NULL	1979	1117	c:\residential canal\linked\Medium Canals.pdf
34 KEY LARGO	270											c:\residential canal\linked\Small Canals.pdf

Set 1 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
35 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	North Creek	Channel	N	2	15	85	Fill	1	Low	180	3710.653	0.085	763982.975
36 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	North Creek	Channel	N	0	0	100	Fill	1	Low	90	750.823	0.017	763900.102
37 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	North Creek	Channel	N	0	0	100	Fill	1	Low	90	3804.343	0.087	763761.327
38 KEY LARGO	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Largo Sound	Spoil Area	N	0.6	0	100	Fill	2	Medium	225, 90	9360.514	0.215	763361.886
39 KEY LARGO	Nutrient Removal, BMPs, AWWT/SWM	Fair	D.SMALL	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	1	0	100	Fill	1	Medium	315	739.544	0.017	762375.959
40 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	1	0	100	Fill	1	Medium	315	1179.554	0.027	762339.706
41 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	0	0	100	Fill	1	Medium	315	783.932	0.018	762267.213
42 KEY LARGO	Berm And Swale, BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.A	Low	Blackwater Sound,Lar	Shallow Nearshore	N	0.5	85	15	Dredge	2	Medium	315,90	21111.08	0.485	762602.900
43 KEY LARGO	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	3.5	0	100	Fill	1	Medium	350	9233.761	0.212	761977.612
44 KEY LARGO	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	0.3	0	100	Fill	1	Medium	0	9089.718	0.209	761303.180
45 KEY LARGO	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Blackwater Sound	Shallow Nearshore	N	16	0	100	Fill	1	Medium	355	39137.76	0.898	761743.342
46 KEY LARGO	Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Largo Sound	Spoil Area	N	2.3	0	100	Fill	1	Medium	135	10226.34	0.235	762533.310
47 KEY LARGO	Berm And Swale, BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	Med	Blackwater Sound	Shallow Nearshore	N	5	30	70	Fill	1	Medium	0	45666.88	1.048	761427.205
48 KEY LARGO	Backfilling, Stripper, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	Med	Largo Sound	Shallow Nearshore	N	1	50	50	Dredge	1	Medium	90	1454.928	0.033	762229.721
49 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Tarpon Basin	Shallow Nearshore	N	0	0	100	Fill	1	Medium	270	1707.996	0.039	760856.395
50 KEY LARGO	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Pennekamp Bay	Shallow Nearshore	N	4	0	100	Fill	1	Low	180	12442.14	0.286	761618.908
51 KEY LARGO	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Pennekamp Bay	Spoil Area	N	6	0	100	Fill	1	Low	165	24797.6	0.569	761453.408
52 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Tarpon Basin	Shallow Nearshore	N	2	0	100	Fill	1	Medium	0	2822.196	0.065	760175.801
53 KEY LARGO	Circulation Devices, BMPs, AWWT/SWM	Fair	D.SMALL	II.B	III.B	High	Tarpon Basin	Shallow Nearshore	N	0	0	100	Fill	1	Medium	0	766.918	0.018	759963.552
54 KEY LARGO	Circulation Devices, BMPs, AWWT/SWM	Fair	D.SMALL	II.B	III.B	High	Tarpon Basin	Shallow Nearshore	N	0	0	100	Fill	1	Medium	0	629.807	0.014	759890.092
55 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Pennekamp Bay	Spoil Area	N	0	0	100	Fill	1	Low	85	1090.538	0.025	761326.743
56 KEY LARGO	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Tarpon Basin	Shallow Nearshore	N	6	0	100	Fill	1	Medium	0	13982.97	0.321	759742.907
57 KEY LARGO	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Pennekamp Bay	Spoil Area	N	0	0	100	Fill	1	Low	135	9297.991	0.213	761096.805
58 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Buttonwood Sound	Shallow Nearshore	N	0	0	100	Fill	1	Medium	270	4550.092	0.104	759434.198
59 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Buttonwood Sound	Shallow Nearshore	N	1	0	100	Fill	1	Medium	270	3985.21	0.091	759631.428
60 KEY LARGO	BMPs, AWWT/SWM	Poor	A.JUMBO	II.B	III.B	High	Hawk Channel	Spoil Area	N	11	0	100	Fill	1	Medium	185	124836.7	2.866	759651.840
61 KEY LARGO	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Hawk Channel	Spoil Area	N	0	0	100	Fill	1	Medium	90	2881.476	0.066	759200.893
62 ROCK HARBOR	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Florida Bay	Shallow Nearshore	N	0	0	100	Fill	0	Low	NA	44721.64	1.027	756784.371
63 ROCK HARBOR	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Hawk Channel	Spoil Area	Y	7	0	100	Fill	1	Medium	135	40400.44	0.927	758676.162
64 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Buttonwood Sound	Shallow Nearshore	N	0	0	100	Fill	1	Medium	0	1375.566	0.032	757165.725
65 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Buttonwood Sound	Shallow Nearshore	N	0.5	0	100	Fill	1	Medium	0	3696.166	0.085	757226.023
66 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	Med	Rock Harbor	Spoil Area	N	1	50	50	Fill	1	Low	270	3720.187	0.085	757940.896
67 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Buttonwood Sound	Shallow Nearshore	N	0	0	100	Fill	1	Medium	0	4156.469	0.095	757077.918
68 ROCK HARBOR	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Rock Harbor	Spoil Area	N	5	0	100	Fill	1	Low	225	18075.24	0.415	758475.467
69 ROCK HARBOR	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Hawk Channel	Spoil Area	N	4	0	100	Fill	1	Medium	135	20584.61	0.473	758804.229

Set 2 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
35 KEY LARGO	132855.004	1.54	1.54	4.57	756.403	240.376	0.240	16958	0.371											RC-.25
36 KEY LARGO	132724.651	0.85	0.85	4.57	188.754	88.585	0.090	3431	0.075											RH-12
37 KEY LARGO	132628.030	1.49	1.49	4.57	523.449	254.781	0.250	17386	0.380			Y	Y	Y	N	Y	GOOD	#37	Bay Watch	RH-12
38 KEY LARGO	131990.296	2.34	2.34	4.57	869.016	399.249	0.400	42778	0.936											
39 KEY LARGO	131693.767	4.42	4.42	1.83	182.660	16.736	0.020	1353	0.074											MC
40 KEY LARGO	131635.252	1.06	1.06	1.37	256.233	111.367	0.110	1616	0.118											MC
41 KEY LARGO	131608.343	1.02	1.02	1.37	169.322	76.537	0.080	1074	0.078											MC
42 KEY LARGO	131384.656	2.54	2.54	5.49	1770.594	829.832	0.830	115900	2.111											
43 KEY LARGO	131286.937	2.47	2.47	4.57	1359.000	373.165	0.370	42198	0.923											RH-12
44 KEY LARGO	131160.878	1.74	1.74	4.57	1154.733	522.337	0.520	41540	0.909											RM-8
45 KEY LARGO	131042.208	4.75	4.75	4.57	4645.875	823.292	0.820	178860	3.914	culverts to #46 & mangrove pond, but one to pond is collapsed										RH-12
46 KEY LARGO	130844.858	7.22	7.22	4.57	914.116	141.706	0.140	46734	1.023											MC
47 KEY LARGO	130804.107	3.46	3.46	4.57	4350.583	1320.245	1.320	208698	4.567	culverts to #43 & mangrove pond, but one to pond is collapsed		Y	Y	Y	N	Y	GOOD	#32. 98	Bay Watch	RM-8
48 KEY LARGO	130508.470	2.17	2.17	4.57	192.922	66.903	0.070	6649	0.145											RM-8
49 KEY LARGO	129646.349	1.23	1.23	4.57	314.475	138.816	0.140	7806	0.171											MC
50 KEY LARGO	129210.995	2.97	2.97	4.57	1404.159	418.450	0.420	56861	1.244											
51 KEY LARGO	129076.754	3.28	3.28	4.57	2792.451	755.958	0.760	113325	2.480											RM-8
52 KEY LARGO	128854.035	1.51	1.51	4.57	565.099	187.007	0.190	12897	0.282											RH-12
53 KEY LARGO	128785.944	1.17	1.17	4.57	149.171	65.446	0.070	3505	0.077											
54 KEY LARGO	128783.504	1.12	1.12	4.57	136.366	56.028	0.060	2878	0.063											RH-12
55 KEY LARGO	128689.702	1.23	1.23	4.57	196.474	88.903	0.090	4984	0.109			Y	Y	Y	N	Y	GOOD	#62	Bay Watch	
56 KEY LARGO	128645.065	3.23	3.23	4.57	2627.213	433.354	0.430	63902	1.398											
57 KEY LARGO	128597.350	3.5	3.5	4.57	636.252	265.737	0.270	42492	0.930											MC
58 KEY LARGO	128267.098	1.83	1.83	4.57	525.976	248.341	0.250	20794	0.455											
59 KEY LARGO	128042.701	1.26	1.26	4.57	660.290	315.044	0.320	18212	0.399			Y	Y	Y	N	Y	GOOD	#83	Bay Watch	RM-8
60 KEY LARGO	126317.315	7.77	7.77	4.88	10060.034	1607.413	1.610	609203	12.484		car battery found in canal									
61 KEY LARGO	125833.103	1	1	4.57	597.825	289.455	0.290	13168	0.288			Y	Y	Y	N	Y	GOOD	#95,131	Bay Watch	RM-8
62 ROCK HARBOR	125783.716	5.73	5.73	4.57	1656.824	780.145	0.780	204378	4.472			Y	Y	Y	N	Y	GOOD	#22	Bay Watch	RM-8
63 ROCK HARBOR	125638.982	5.41	5.41	4.57	3544.569	746.980	0.750	184630	4.040		marina at dead end									
64 ROCK HARBOR	125425.031	1.71	1.71	4.57	179.561	80.442	0.080	6286	0.138											RM-8
65 ROCK HARBOR	125375.230	1.02	1.02	4.57	780.313	363.300	0.360	16891	0.370											
66 ROCK HARBOR	125348.104	1.49	1.49	4.57	571.420	249.290	0.250	17001	0.372											RL-.5
67 ROCK HARBOR	125310.139	1.56	1.56	4.57	548.999	265.610	0.270	18995	0.416											RM-8
68 ROCK HARBOR	125309.059	3.78	3.78	4.57	2466.694	478.255	0.480	82604	1.808											
69 ROCK HARBOR	125308.345	3.63	3.63	4.57	3144.543	567.567	0.570	94072	2.058			Y	Y	Y	N	Y	GOOD	#12	Bay Watch	

Set 2 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
35 KEY LARGO	180							8	SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	1117	c:\residential canal\linked\Small Canals.pdf
36 KEY LARGO	90							5	UNKNOWN SYSTEM, NULL	1980	1117	c:\residential canal\linked\Small Canals.pdf
37 KEY LARGO	90							19	UNKNOWN SYSTEM, NULL	1980	1117	c:\residential canal\linked\Small Canals.pdf
38 KEY LARGO	225	90						16	UNKNOWN SYSTEM, SEPTIC TANK, NULL	0	511	c:\residential canal\linked\Medium Canals.pdf
39 KEY LARGO	315							3	UNKNOWN SYSTEM, NULL	1972	1117	c:\residential canal\linked\Small Canals.pdf
40 KEY LARGO	315							1	SEPTIC TANK,	1974	1117	c:\residential canal\linked\Small Canals.pdf
41 KEY LARGO	315							1	SEPTIC TANK,	1958	1117	c:\residential canal\linked\Small Canals.pdf
42 KEY LARGO	315	90						39	UNKNOWN SYSTEM,	1983		c:\residential canal\linked\Large Canals.pdf
43 KEY LARGO	350							47	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1973	969	c:\residential canal\linked\Medium Canals.pdf
44 KEY LARGO	0							22	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1973	969	c:\residential canal\linked\Medium Canals.pdf
45 KEY LARGO	355							120	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1987	969	c:\residential canal\linked\Large Canals.pdf
46 KEY LARGO	135							18	UNKNOWN SYSTEM, FDEP SECOND, NULL	0	681	c:\residential canal\linked\Medium Canals.pdf
47 KEY LARGO	0							113	ATU, SUB-STD SEPTIC, SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	969	c:\residential canal\linked\Large Canals.pdf
48 KEY LARGO	90							4	UNKNOWN SYSTEM,	1972	681	c:\residential canal\linked\Small Canals.pdf
49 KEY LARGO	270							3	UNKNOWN SYSTEM, NULL	0	470	c:\residential canal\linked\Small Canals.pdf
50 KEY LARGO	180							22	UNKNOWN SYSTEM, NULL	0		c:\residential canal\linked\Medium Canals.pdf
51 KEY LARGO	165							87	SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	1540	c:\residential canal\linked\Large Canals.pdf
52 KEY LARGO	0							21	UNKNOWN SYSTEM,	1975	470	c:\residential canal\linked\Small Canals.pdf
53 KEY LARGO	0							5	UNKNOWN SYSTEM, NULL	0	471	c:\residential canal\linked\Small Canals.pdf
54 KEY LARGO	0							4	UNKNOWN SYSTEM,	1968	471	c:\residential canal\linked\Small Canals.pdf
55 KEY LARGO	85							5	UNKNOWN SYSTEM,	0	1540	c:\residential canal\linked\Small Canals.pdf
56 KEY LARGO	0							86	SUB-STD SEPTIC, SEPTIC TANK, UNKNOWN SYSTEM,	1979		c:\residential canal\linked\Medium Canals.pdf
57 KEY LARGO	135							1	FDEP SECOND,	0	1540	c:\residential canal\linked\Medium Canals.pdf
58 KEY LARGO	270							1	NULL	0	471	c:\residential canal\linked\Small Canals.pdf
59 KEY LARGO	270							20	SEPTIC TANK, NULL	1994	471	c:\residential canal\linked\Small Canals.pdf
60 KEY LARGO	185							197	SEPTIC TANK, FDEP SECOND, UNKNOWN SYSTEM, NULL	1980		c:\residential canal\linked\Jumbo Canals.pdf
61 KEY LARGO	90							12	UNKNOWN SYSTEM, NULL	1988	1205	c:\residential canal\linked\Small Canals.pdf
62 ROCK HARBOR	NA							28	SEPTIC TANK, NULL	1986	529	c:\residential canal\linked\Large Canals.pdf
63 ROCK HARBOR	135							68	SUB-STD SEPTIC, FDEP SECOND, UNKNOWN SYSTEM, NULL	1974		c:\residential canal\linked\Large Canals.pdf
64 ROCK HARBOR	0							5	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1972	632	c:\residential canal\linked\Small Canals.pdf
65 ROCK HARBOR	0							26	ATU, UNKNOWN SYSTEM, SUB-STD SEPTIC,	0	632	c:\residential canal\linked\Small Canals.pdf
66 ROCK HARBOR	270							8	NULL	0	632	c:\residential canal\linked\Small Canals.pdf
67 ROCK HARBOR	0							17	SEPTIC TANK, UNKNOWN SYSTEM,	0	632	c:\residential canal\linked\Small Canals.pdf
68 ROCK HARBOR	225							54	UNKNOWN SYSTEM, NULL	0		c:\residential canal\linked\Medium Canals.pdf
69 ROCK HARBOR	135							82	SEPTIC TANK, UNKNOWN SYSTEM,	1995		c:\residential canal\linked\Large Canals.pdf

Set 2 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
70 ROCK HARBOR	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Buttonwood Sound	Shallow Nearshore	N	0	0	100	Fill	1	Medium	0	10283.92	0.236	756991.426
71 ROCK HARBOR	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Florida Bay	Shallow Nearshore	N	0	0	100	Fill	1	Low	180	27477.74	0.631	756805.614
72 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Rock Harbor	Spoil Area	N	0.5	0	100	Fill	1	Low	135	3362.094	0.077	757397.062
73 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Rock Harbor	Spoil Area	N	0	0	100	Fill	1	Low	135	2177.04	0.05	757306.907
74 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Rock Harbor	Spoil Area	N	0	0	100	Fill	1	Low	135	2639.858	0.061	757235.987
75 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Hawk Channel	Spoil Area	N	2	0	100	Dredge	1	Medium	135	4471.497	0.103	756509.660
76 ROCK HARBOR	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Hawk Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	135	6595.153	0.151	756433.349
77 ROCK HARBOR	Berm And Swale, BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.A	High	Florida Bay	Shallow Nearshore	N	3	0	100	Dredge	2	Medium	315, 315	20345.7	0.467	755245.637
78 ROCK HARBOR	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Hawk Channel	Spoil Area	N	4	0	100	Dredge	1	Medium	135	7544.27	0.173	755360.468
79 ROCK HARBOR	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	Med	Hawk Channel	Shallow Nearshore	N	0	50	50	Dredge	1	Medium	135	3711.349	0.085	754504.718
80 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Hawk Channel	Shallow Nearshore	N	0	0	100	Dredge	1	Medium	135	4276.335	0.098	754448.392
81 ROCK HARBOR	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Hawk Channel	Shallow Nearshore	N	0	0	100	Dredge	1	Medium	135	3356.16	0.077	754382.576
82 ROCK HARBOR	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Hawk Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	135	6995.598	0.161	754120.255
83 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Hawk Channel	Shallow Nearshore	N	0	0	100	Dredge	1	Medium	135	5338.355	0.123	754062.753
84 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Hawk Channel	Shallow Nearshore	N	0	0	100	Dredge	1	Medium	135	4306.151	0.099	753990.590
85 ROCK HARBOR	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Hawk Channel	Spoil Area	Y	3	0	100	Dredge	1	Medium	135	8644.103	0.198	753931.132
86 ROCK HARBOR	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Hawk Channel	Spoil Area	N	2	0	100	Dredge	1	Medium	135	1584.323	0.036	753662.183
87 ROCK HARBOR	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Hawk Channel	Spoil Area	N	2	0	100	Dredge	1	Medium	135	1434.244	0.033	753517.666
88 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Florida Bay	Spoil Area	N	1.3	0	100	Fill	1	Medium	270	5338.507	0.123	752833.213
89 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Dove Creek	Channel	N	0	0	100	Fill	1	Low	80	3624.314	0.083	752884.905
90 TAVERNIER	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Florida Bay	Shallow Nearshore	N	0	0	100	Fill	1	Medium	0	2233.332	0.051	752076.335
91 TAVERNIER	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Florida Bay	Shallow Nearshore	N	0	0	100	Fill	1	Medium	0	1948.017	0.045	751989.260
92 TAVERNIER	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Florida Bay	Shallow Nearshore	N	0	0	100	Fill	1	Medium	0	3184.384	0.073	751904.745
93 TAVERNIER	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Florida Bay	Spoil Area	N	0	0	100	Fill	1	Medium	340	6263.825	0.144	751576.931
94 TAVERNIER	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Florida Bay	Shallow Nearshore	N	0	0	100	Fill	1	Medium	0	2967.938	0.068	751817.669
95 TAVERNIER	Backfilling, BMPs, AWWT/SWM	Fair	D.SMALL	II.B	III.A	High	Florida Bay	Spoil Area	N	0	0	100	Dredge	1	Medium	270	1416.292	0.033	751604.664
96 TAVERNIER	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Florida Bay	Spoil Area	N	0	0	100	Dredge	1	Medium	270	1917.572	0.044	751601.143
97 TAVERNIER	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Florida Bay	Spoil Area	N	0	0	100	Dredge	1	Medium	270	2325.105	0.053	751593.662
98 ROCK HARBOR	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Hawk Channel	Spoil Area	N	1	0	100	Dredge	1	Medium	135	4288.371	0.098	753260.082
99 TAVERNIER	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Florida Bay	Spoil Area	N	0	0	100	Fill	1	Medium	270	3033.251	0.07	751589.260
100 TAVERNIER	Backfilling, BMPs, AWWT/SWM	Fair	D.SMALL	II.B	III.A	High	Florida Bay	Spoil Area	N	0	0	100	Dredge	1	Medium	270	2591.628	0.059	751594.102
101 TAVERNIER	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Florida Bay	Spoil Area	N	3	0	100	Dredge	1	Medium	225	8963.182	0.206	751607.802

Set 3 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
70 ROCK HARBOR	125290.481	2.47	2.47	4.57	891.267	415.880	0.420	46998	1.028											RM-8
71 ROCK HARBOR	125241.920	6.45	6.45	4.57	1089.302	426.081	0.430	125573	2.748											RM-8
72 ROCK HARBOR	124879.556	1.29	1.29	4.57	545.062	260.484	0.260	15365	0.336											RM-8
73 ROCK HARBOR	124652.197	1.13	1.13	4.57	404.448	192.886	0.190	9949	0.218											RM-8
74 ROCK HARBOR	124576.584	1.43	1.43	4.57	389.235	184.280	0.180	12064	0.264		adjacent to Rock Harbor marina									RM-8
75 ROCK HARBOR	123749.948	1.27	1.27	4.57	746.791	351.460	0.350	20435	0.447											RH-12
76 ROCK HARBOR	123668.775	1.78	1.78	4.57	824.165	370.381	0.370	30140	0.660											RM-8
77 ROCK HARBOR	122878.428	2.93	2.93	4.57	2003.282	693.758	0.690	92980	2.035											RH-12
78 ROCK HARBOR	122423.417	2.56	2.56	4.57	1360.212	294.548	0.290	34477	0.754											RH-12
79 ROCK HARBOR	121436.088	1.47	1.47	4.57	747.780	252.791	0.250	16961	0.371											
80 ROCK HARBOR	121349.547	1.77	1.77	4.57	509.618	242.069	0.240	19543	0.428											
81 ROCK HARBOR	121266.807	1.41	1.41	4.57	499.322	238.273	0.240	15338	0.336											RM-8
82 ROCK HARBOR	120976.997	1.93	1.93	4.57	780.611	361.976	0.360	31970	0.700											RM-8
83 ROCK HARBOR	120914.590	1.76	1.76	4.57	632.137	303.025	0.300	24396	0.534											RM-8
84 ROCK HARBOR	120860.707	1.62	1.62	4.57	567.078	265.442	0.270	19679	0.431											
85 ROCK HARBOR	120834.216	3.46	3.46	4.57	704.688	250.186	0.250	39504	0.864		marina at mouth									
86 ROCK HARBOR	120340.389	1.44	1.44	4.57	236.699	109.971	0.110	7240	0.158											
87 ROCK HARBOR	120209.731	1.37	1.37	4.57	247.614	104.911	0.100	6554	0.143											
88 ROCK HARBOR	119986.559	1.65	1.65	4.57	741.876	323.936	0.320	24397	0.534											RM-8
89 ROCK HARBOR	119607.971	1.06	1.06	4.57	703.587	342.903	0.340	16563	0.362											
90 TAVERNIER	119011.657	1.36	1.36	4.57	341.311	163.927	0.160	10206	0.223											RH-12
91 TAVERNIER	118900.251	1.25	1.25	4.57	332.487	156.308	0.160	8902	0.195											RH-12
92 TAVERNIER	118814.456	1.59	1.59	4.57	418.191	199.828	0.200	14553	0.318											
93 TAVERNIER	118788.846	2.31	2.31	4.57	584.430	271.626	0.270	28626	0.626											RH-12
94 TAVERNIER	118787.565	1.33	1.33	4.57	460.646	222.944	0.220	13563	0.297											RH-12
95 TAVERNIER	118603.554	1.63	1.63	4.57	200.462	86.691	0.090	6472	0.142											RH-12
96 TAVERNIER	118513.772	1.68	1.68	4.57	255.158	114.106	0.110	8763	0.192											
97 TAVERNIER	118421.790	1.72	1.72	4.57	297.237	135.020	0.140	10626	0.233											RH-12
98 ROCK HARBOR	118411.032	1.19	1.19	4.57	783.263	359.254	0.360	19598	0.429											RM-8
99 TAVERNIER	118333.328	1.91	1.91	4.57	348.515	158.888	0.160	13862	0.303											RH-12
100 TAVERNIER	118243.986	1.31	1.31	4.57	419.380	197.517	0.200	11844	0.259											RH-12
101 TAVERNIER	118065.632	2.78	2.78	1.83	1247.087	321.848	0.320	16403	0.896	aeration, unplugged, backfilled										

Set 3 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
70 ROCK HARBOR	0							33	SEPTIC TANK, UNKNOWN SYSTEM,	1979	632	c:\residential canal\linked\Medium Canals.pdf
71 ROCK HARBOR	180							35	ATU, NULL	1986	529	c:\residential canal\linked\Large Canals.pdf
72 ROCK HARBOR	135							13	ATU, UNKNOWN SYSTEM, NULL	1985	632	c:\residential canal\linked\Small Canals.pdf
73 ROCK HARBOR	135							10	ATU, UNKNOWN SYSTEM,	1970	632	c:\residential canal\linked\Small Canals.pdf
74 ROCK HARBOR	135							9	SEPTIC TANK, UNKNOWN SYSTEM,	1959	632	c:\residential canal\linked\Small Canals.pdf
75 ROCK HARBOR	135							30	FDEP SECOND, SEPTIC TANK, NULL	1971	911	c:\residential canal\linked\Small Canals.pdf
76 ROCK HARBOR	135							30	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1986	911	c:\residential canal\linked\Medium Canals.pdf
77 ROCK HARBOR	315	315						11	NULL	0	529	c:\residential canal\linked\Large Canals.pdf
78 ROCK HARBOR	135							38	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1980	911	c:\residential canal\linked\Medium Canals.pdf
79 ROCK HARBOR	135											c:\residential canal\linked\Small Canals.pdf
80 ROCK HARBOR	135							19	UNKNOWN SYSTEM, SEPTIC TANK,	0	859	c:\residential canal\linked\Small Canals.pdf
81 ROCK HARBOR	135							16	CESSPOOL, UNKNOWN SYSTEM, NULL	1986	859	c:\residential canal\linked\Small Canals.pdf
82 ROCK HARBOR	135							33	UNKNOWN SYSTEM, NULL	1978	859	c:\residential canal\linked\Medium Canals.pdf
83 ROCK HARBOR	135							33	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1980	859	c:\residential canal\linked\Small Canals.pdf
84 ROCK HARBOR	135											c:\residential canal\linked\Small Canals.pdf
85 ROCK HARBOR	135							6	UNKNOWN SYSTEM, FDEP SECOND, NULL	0	859	c:\residential canal\linked\Medium Canals.pdf
86 ROCK HARBOR	135											c:\residential canal\linked\Small Canals.pdf
87 ROCK HARBOR	135											c:\residential canal\linked\Small Canals.pdf
88 ROCK HARBOR	270							12	UNKNOWN SYSTEM, NULL	1968	355	c:\residential canal\linked\Small Canals.pdf
89 ROCK HARBOR	80							13	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1986		c:\residential canal\linked\Small Canals.pdf
90 TAVERNIER	0							10	UNKNOWN SYSTEM, NULL	1972	355	c:\residential canal\linked\Small Canals.pdf
91 TAVERNIER	0							7	UNKNOWN SYSTEM,	1980	355	c:\residential canal\linked\Small Canals.pdf
92 TAVERNIER	0							8	UNKNOWN SYSTEM, NULL	0	355	c:\residential canal\linked\Small Canals.pdf
93 TAVERNIER	340							17	SEPTIC TANK, SUB-STD SEPTIC, UNKNOWN SYSTEM,	1993	355	c:\residential canal\linked\Medium Canals.pdf
94 TAVERNIER	0							13	SEPTIC TANK, UNKNOWN SYSTEM,	1972	355	c:\residential canal\linked\Small Canals.pdf
95 TAVERNIER	270							6	NULL	1982	355	c:\residential canal\linked\Small Canals.pdf
96 TAVERNIER	270							7	UNKNOWN SYSTEM, NULL	0	355	c:\residential canal\linked\Small Canals.pdf
97 TAVERNIER	270							8	NULL	1986	355	c:\residential canal\linked\Small Canals.pdf
98 ROCK HARBOR	135							16	UNKNOWN SYSTEM, NULL	1982	929	c:\residential canal\linked\Small Canals.pdf
99 TAVERNIER	270							9	NULL	1990	355	c:\residential canal\linked\Small Canals.pdf
100 TAVERNIER	270							10	NULL	1990	355	c:\residential canal\linked\Small Canals.pdf
101 TAVERNIER	225							55	ATU, UNKNOWN SYSTEM, SEPTIC TANK,	1982		c:\residential canal\linked\Medium Canals.pdf

Set 3 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
102 TAVERNIER	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Hawk Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	160	9110.244	0.209	752394.890
103 TAVERNIER	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Hawk Channel	Spoil Area	N	0.3	0	100	Dredge	1	Medium	160	8329.866	0.191	752297.806
104 TAVERNIER	Physical Connection, BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.A	High	Hawk Channel	Spoil Area	y	4	0	100	Dredge	1	Medium	160	33720.85	0.774	752214.121
105 TAVERNIER	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Hawk Channel	Spoil Area	N	2	0	100	Fill	2	Medium	90, 135	5687.088	0.131	751754.133
106 PLANTATION KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Taverier Creek	Channel	N	1	0	100	Fill	1	Medium	350	3829.912	0.088	749436.283
107 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Taverier Creek	Channel	N	4.5	0	100	Fill	1	Medium	30	16395.47	0.376	749527.446
108 PLANTATION KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Taverier Creek	Channel	N	0	0	100	Fill	1	Medium	85	2668.007	0.061	749873.947
109 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Florida Bay	Shallow Nearshore	N	3	0	100	Fill	1	Low	270	14801.13	0.34	749122.399
110 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Taverier Creek	Channel	N	2	0	100	Fill	1	Medium	80	11920.59	0.274	749715.400
111 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Florida Bay	Shallow Nearshore	N	1	0	100	Fill	1	Low	0	8289.685	0.19	748977.615
112 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Florida Bay	Spoil Area	N	0	0	100	Fill	1	Medium	270	7495.495	0.172	748788.656
113 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Taverier Creek	Channel	N	3.5	0	100	Fill	1	Medium	90	14209.21	0.326	749445.780
114 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Taverier Creek	Spoil Area	N	0.6	0	100	Fill	1	Medium	90	11556.01	0.265	749315.087
115 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Taverier Creek	Spoil Area	N	0	0	100	Fill	1	Medium	90	7451.699	0.171	749594.321
116 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Taverier Creek	Spoil Area	N	0	0	100	Fill	1	Medium	90	9535.836	0.219	749525.172
117 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Florida Bay	Spoil Area	N	0	0	100	Fill	1	Medium	30	8126.32	0.187	748522.550
118 PLANTATION KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Florida Bay	Shallow Nearshore	N	7	0	100	Fill	2	Medium	355, 270	59477.88	1.365	748869.314
119 PLANTATION KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Hawk Channel	Spoil Area	N	0.5	0	100	Fill	1	Medium	135	5145.309	0.118	749373.751
120 PLANTATION KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Cow Pen Basin	Shallow Nearshore	N	9	0	100	Fill	1	Medium	315	45501.27	1.045	748237.317
121 PLANTATION KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Cow Pen Basin	Spoil Area	N	1	0	100	Dredge	1	Medium	235	6836.157	0.157	747593.171
122 PLANTATION KEY	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Hawk Channel	Shallow Nearshore	N	2	0	100	Dredge	0	Medium	NA	2893.552	0.066	747331.943
123 PLANTATION KEY	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	hawk channel	Spoil Area	N	0	0	100	Dredge	1	Medium	135	1411.622	0.032	746738.945
124 PLANTATION KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	Med	Snake Creek	Channel	N	3	50	50	Fill	1	Medium	240	20515.84	0.471	744224.239
125 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Snake Creek	Channel	N	0	0	100	Fill	1	Medium	240	10341.15	0.237	743877.468
126 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Snake Creek	Channel	N	0	0	100	Fill	1	Medium	240	12339.91	0.283	743955.166
127 PLANTATION KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Cow Pen Basin	Shallow Nearshore	N	5	0	100	Fill	0	Low	NA	30913.66	0.71	744653.213
128 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Snake Creek	Channel	N	0	0	100	Fill	1	Medium	240	11907.79	0.273	744024.081
129 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Cow Pen Basin	Shallow Nearshore	N	2.5	0	100	Fill	0	Low	NA	10422.49	0.239	744736.090
130 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Snake Creek	Channel	N	0	0	100	Fill	1	Medium	240	12476.82	0.286	744094.847
131 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Snake Creek	Channel	N	0	0	100	Fill	1	Medium	240	13245.23	0.304	744168.849
132 PLANTATION KEY	Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Hawk Channel	Spoil Area	N	1	0	100	Dredge	1	Medium	135	19059.85	0.438	746288.675
133 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Snake Creek	Channel	N	0	0	100	Fill	1	Medium	240	13205.04	0.303	744240.424
134 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Snake Creek	Channel	N	0	0	100	Fill	1	Medium	240	12535.44	0.288	744321.480
135 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Snake Creek	Channel	N	0	0	100	Fill	1	Medium	240	11978.03	0.275	744382.638
136 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Snake Creek	Channel	N	0	0	100	Fill	1	Medium	240	10794	0.248	744434.415
137 PLANTATION KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Hawk Channel	Spoil Area	N	0	0	100	Fill	1	Medium	170	20489.06	0.47	745761.631
138 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Snake Creek	Channel	N	0	0	100	Fill	1	Medium	240	10736.66	0.246	744481.877
139 PLANTATION KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Snake Creek	Channel	N	1.5	0	100	Fill	1	Medium	240	12710.07	0.292	744456.622
140 PLANTATION KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Shell Key Bay	Shallow Nearshore	N	0	0	100	Fill	1	Medium	265	2514.739	0.058	741055.876

Set 4 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
102 TAVERNIER	117794.217	1.86	1.86	4.57	996.720	489.551	0.490	41634	0.911											RH-12
103 TAVERNIER	117784.064	1.43	1.43	4.57	1201.195	583.081	0.580	38067	0.833											RH-12
104 TAVERNIER	117741.403	3.99	3.99	5.49	2462.843	845.127	0.850	185127	3.372		marina at end >30 feet									RH-12
105 TAVERNIER	117281.455	1.63	1.63	4.57	755.474	349.936	0.350	25990	0.569											RM-8
106 PLANTATION KEY	116575.715	1.83	1.83	4.57	460.369	208.793	0.210	17503	0.383											RM-8
107 PLANTATION KEY	116520.360	3.32	3.32	4.57	1521.080	493.119	0.490	74927	1.640											RM-8
108 PLANTATION KEY	116367.927	3.24	3.24	4.57	231.039	82.417	0.080	12193	0.267											
109 PLANTATION KEY	116149.171	3.38	3.38	4.57	1374.444	438.211	0.440	67641	1.480											RM-8
110 PLANTATION KEY	116135.346	1.74	1.74	4.57	1454.121	683.972	0.680	54477	1.192											RH-12
111 PLANTATION KEY	115981.304	2.3	2.3	4.57	785.803	360.969	0.360	37884	0.829											RM-8
112 PLANTATION KEY	115944.812	2.65	2.65	4.57	628.195	282.852	0.280	34254	0.750											RM-8
113 PLANTATION KEY	115921.446	2.83	2.83	4.57	1550.215	502.247	0.500	64936	1.421			Y	Y	Y	N	Y	GOOD	#140	Bay Watch	RM-8
114 PLANTATION KEY	115743.263	1.89	1.89	2.44	1267.481	611.803	0.610	28197	1.156											RM-8
115 PLANTATION KEY	115699.979	1.7	1.7	4.57	913.866	437.821	0.440	34054	0.745											RM-8
116 PLANTATION KEY	115601.789	2.99	2.99	4.57	1144.833	45.434	0.050	43579	0.954											RM-8
117 PLANTATION KEY	115424.646	1.6	1.6	4.57	1060.858	506.337	0.510	37137	0.813											RM-8
118 PLANTATION KEY	115412.650	3.71	3.71	1.83	6004.239	1601.195	1.600	108845	5.948											RM-8
119 PLANTATION KEY	114864.131	2.11	2.11	4.57	552.738	244.012	0.240	23514	0.515											
120 PLANTATION KEY	114337.218	3.89	3.89	2.74	5307.086	1170.247	1.170	124673	4.550											RM-8
121 PLANTATION KEY	113097.597	2.04	2.04	4.57	743.941	335.645	0.340	31241	0.684											RH-12
122 PLANTATION KEY	112226.131	1.21	1.21	4.57	573.492	239.535	0.240	13224	0.289											RL-.5
123 PLANTATION KEY	111498.219	1.15	1.15	4.57	273.998	123.189	0.120	6451	0.141											RH-12
124 PLANTATION KEY	111393.191	3	3	2.13	2008.766	682.766	0.680	43699	2.052											RM-8
125 PLANTATION KEY	111387.862	2.54	2.54	4.57	857.244	407.735	0.410	47259	1.034											RM-8
126 PLANTATION KEY	111303.094	3.05	3.05	4.57	860.542	405.217	0.410	56393	1.234											RM-8
127 PLANTATION KEY	111237.121	6.08	6.08	4.57	2258.423	508.511	0.510	141275	3.091											
128 PLANTATION KEY	111218.453	2.96	2.96	4.57	849.836	401.674	0.400	54419	1.191											RM-8
129 PLANTATION KEY	111172.645	1.85	1.85	4.57	1231.532	563.283	0.560	47631	1.042			Y	Y	Y	N	Y	GOOD	#10	Bay Watch	RC-.25
130 PLANTATION KEY	111132.887	2.99	2.99	4.57	882.744	417.695	0.420	57019	1.248			Y	Y	Y	N	Y	GOOD	#25	Bay Watch	RM-8
131 PLANTATION KEY	111050.097	3.04	3.04	4.57	917.458	436.331	0.440	60531	1.325											RM-8
132 PLANTATION KEY	110988.573	5.49	5.49	4.57	900.604	347.480	0.350	87104	1.906	aeration?										RM-8
133 PLANTATION KEY	110964.878	2.88	2.88	4.57	962.167	457.771	0.460	60347	1.321											RM-8
134 PLANTATION KEY	110882.665	2.83	2.83	4.57	927.459	443.046	0.440	57287	1.254											RM-8
135 PLANTATION KEY	110792.383	2.93	2.93	3.66	874.943	409.444	0.410	43840	1.198											RM-8
136 PLANTATION KEY	110698.322	2.73	2.73	3.66	837.990	395.387	0.400	39506	1.079											RM-8
137 PLANTATION KEY	110671.229	5.65	5.65	4.57	876.770	362.767	0.360	93635	2.049			Y	Y	Y	N	Y	GOOD	#132	Bay Watch	RM-8
138 PLANTATION KEY	110605.987	2.74	2.74	4.57	833.192	391.188	0.390	49067	1.074											RM-8
139 PLANTATION KEY	110474.025	2.67	2.67	4.57	1021.537	476.097	0.480	58085	1.271		Coast Guard Station	Y	Y	Y	N	Y	GOOD	#44	Bay Watch	MC
140 PLANTATION KEY	108236.172	2.37	2.37	4.57	278.238	106.256	0.110	11492	0.251											RL-.5

Set 4 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
102 TAVERNIER	160							37	UNKNOWN SYSTEM, FDEP SECOND,	1976	929	c:\residential canal\linked\Medium Canals.pdf
103 TAVERNIER	160							48	FDEP SECOND,	1979	929	c:\residential canal\linked\Medium Canals.pdf
104 TAVERNIER	160							78	FDEP SECOND,	1980	929	c:\residential canal\linked\Large Canals.pdf
105 TAVERNIER	90	135						24	UNKNOWN SYSTEM, NULL	0	577	c:\residential canal\linked\Small Canals.pdf
106 PLANTATION KEY	350							8	NULL	1976	1250	c:\residential canal\linked\Small Canals.pdf
107 PLANTATION KEY	30							41	SUB-STD SEPTIC, UNKNOWN SYSTEM, NULL	1972	1250	c:\residential canal\linked\Medium Canals.pdf
108 PLANTATION KEY	85											c:\residential canal\linked\Small Canals.pdf
109 PLANTATION KEY	270							37	ATU, SEPTIC TANK, UNKNOWN SYSTEM,	1991	1250	c:\residential canal\linked\Medium Canals.pdf
110 PLANTATION KEY	80							35	SUB-STD SEPTIC, SEPTIC TANK, UNKNOWN SYSTEM,	1980	1250	c:\residential canal\linked\Medium Canals.pdf
111 PLANTATION KEY	0							37	ATU, SEPTIC TANK, UNKNOWN SYSTEM,	1973	1250	c:\residential canal\linked\Medium Canals.pdf
112 PLANTATION KEY	270							13	UNKNOWN SYSTEM, NULL	0	1250	c:\residential canal\linked\Medium Canals.pdf
113 PLANTATION KEY	90							51	ATU, CESSPOOL, UNKNOWN SYSTEM, FDEP SECOND, SEPTIC TANK, NULL	1980	603	c:\residential canal\linked\Medium Canals.pdf
114 PLANTATION KEY	90							29	SUB-STD SEPTIC, UNKNOWN SYSTEM,	1970	603	c:\residential canal\linked\Medium Canals.pdf
115 PLANTATION KEY	90							20	UNKNOWN SYSTEM, SUB-STD SEPTIC, NULL	1964	603	c:\residential canal\linked\Medium Canals.pdf
116 PLANTATION KEY	90							25	SEPTIC TANK, UNKNOWN SYSTEM,	1966	603	c:\residential canal\linked\Medium Canals.pdf
117 PLANTATION KEY	30							28	UNKNOWN SYSTEM, NULL	1995	1250	c:\residential canal\linked\Medium Canals.pdf
118 PLANTATION KEY	355	270						15	NULL	1987	1250	c:\residential canal\linked\Large Canals.pdf
119 PLANTATION KEY	135							14	ATU, UNKNOWN SYSTEM, SEPTIC TANK, NULL	1977		c:\residential canal\linked\Small Canals.pdf
120 PLANTATION KEY	315							139	ATU, NULL	1987	1226	c:\residential canal\linked\Large Canals.pdf
121 PLANTATION KEY	235							9	UNKNOWN SYSTEM, NULL	1967	1226	c:\residential canal\linked\Medium Canals.pdf
122 PLANTATION KEY	NA							3	NULL	0	573	c:\residential canal\linked\Small Canals.pdf
123 PLANTATION KEY	135							2	SEPTIC TANK,	1959	573	c:\residential canal\linked\Small Canals.pdf
124 PLANTATION KEY	240							4	NULL	0	679	c:\residential canal\linked\Large Canals.pdf
125 PLANTATION KEY	240							16	UNKNOWN SYSTEM, NULL	1974	679	c:\residential canal\linked\Medium Canals.pdf
126 PLANTATION KEY	240							17	SEPTIC TANK, SUB-STD SEPTIC, UNKNOWN SYSTEM, NULL	1992	679	c:\residential canal\linked\Medium Canals.pdf
127 PLANTATION KEY	NA							44	NULL		679	c:\residential canal\linked\Large Canals.pdf
128 PLANTATION KEY	240							17	UNKNOWN SYSTEM, NULL	1970	679	c:\residential canal\linked\Medium Canals.pdf
129 PLANTATION KEY	NA							15	NULL	0	679	c:\residential canal\linked\Medium Canals.pdf
130 PLANTATION KEY	240							17	UNKNOWN SYSTEM, NULL	1973	679	c:\residential canal\linked\Medium Canals.pdf
131 PLANTATION KEY	240							16	UNKNOWN SYSTEM, NULL	0	679	c:\residential canal\linked\Medium Canals.pdf
132 PLANTATION KEY	135							23	ATU, UNKNOWN SYSTEM, NULL	1992	573	c:\residential canal\linked\Medium Canals.pdf
133 PLANTATION KEY	240							16	UNKNOWN SYSTEM, NULL	1978	679	c:\residential canal\linked\Medium Canals.pdf
134 PLANTATION KEY	240							16	SUB-STD SEPTIC, UNKNOWN SYSTEM, NULL	1990	679	c:\residential canal\linked\Medium Canals.pdf
135 PLANTATION KEY	240							17	UNKNOWN SYSTEM, NULL	1972	679	c:\residential canal\linked\Medium Canals.pdf
136 PLANTATION KEY	240							16	SUB-STD SEPTIC, UNKNOWN SYSTEM, NULL	1992	679	c:\residential canal\linked\Medium Canals.pdf
137 PLANTATION KEY	170							9	UNKNOWN SYSTEM,	1975	573	c:\residential canal\linked\Large Canals.pdf
138 PLANTATION KEY	240							24	SUB-STD SEPTIC, UNKNOWN SYSTEM,	0	679	c:\residential canal\linked\Medium Canals.pdf
139 PLANTATION KEY	240							14	SUB-STD SEPTIC, UNKNOWN SYSTEM,	0	679	c:\residential canal\linked\Medium Canals.pdf
140 PLANTATION KEY	265							4	UNKNOWN SYSTEM,	1973	265	c:\residential canal\linked\Small Canals.pdf

Set 4 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
141 PLANTATION KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Shell Key Bay	Shallow Nearshore	N	0	0	100	Fill	1	Medium	300	3255.901	0.075	741055.413
142 PLANTATION KEY	Nutrient Removal, BMPs, AWWT/SWM	Fair	D.SMALL	II.B	III.B	High	Shell Key Bay	Shallow Nearshore	N	1	0	100	Fill	1	Medium	300	1438.51	0.033	740928.821
143 UPPER MATECUMBE	Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	lignumvitae channel	Channel	N	1	0	100	Fill	1	Medium	225	8970.266	0.206	738705.148
144 LOWER MATECUMBE KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	Med	Peterson Key Bank	Channel	Y	4	50	50	Fill	1	Low	90	7879.012	0.181	733680.315
145 LOWER MATECUMBE KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Hawk Channel	Spoil Area	N	1	0	100	Dredge	1	Medium	135	8442.322	0.194	733074.371
146 LOWER MATECUMBE KEY	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Matecumbe bight	Shallow Nearshore	N	0	0	100	Dredge	1	Medium	315	2479.774	0.057	732791.578
147 LOWER MATECUMBE KEY	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Hawk Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	135	2435.35	0.056	732891.152
148 LOWER MATECUMBE KEY	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Hawk Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	135	3828.332	0.088	732737.845
149 LOWER MATECUMBE KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	matecumbe bight	Spoil Area	N	4	0	100	Fill	1	Medium	90	58895.41	1.352	730724.502
150 LOWER MATECUMBE KEY	Berm And Swale, Reduction in Seaweed Loading, BMPs, AWWT/SWM	Poor	A.JUMBO	II.A	III.B	High	Florida Bay	Spoil Area	N	16	0	100	Fill	1	High	330	184924.6	4.245	730212.402
151 LOWER MATECUMBE KEY	Berm And Swale, BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	matecumbe bight	Spoil Area	N	2	0	100	Fill	1	Medium	70	52275.89	1.2	730875.943
152 LOWER MATECUMBE KEY	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Poor	B.LARGE	II.A	III.B	High	Florida Bay	Spoil Area	N	4	10	90	Fill	1	High	315	39289.53	0.902	729806.893
153 LOWER MATECUMBE KEY	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Fair, Poor	C.MEDIUM	II.A	III.B	Med	Florida Bay	Spoil Area	N	1	50	50	Fill	1	High	315	12998.13	0.298	729428.240
154 LOWER MATECUMBE KEY	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Poor	B.LARGE	II.A	III.B	High	Florida Bay	Spoil Area	N	5	0	100	Fill	1	High	285	21696.94	0.498	729201.320
155 LOWER MATECUMBE KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	matecumbe harbor	Channel	N	6	0	100	Fill	1	Medium	285	35304.85	0.81	729406.484
156 LOWER MATECUMBE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	matecumbe harbor	Channel	N	0	0	100	Fill	1	Medium	265	4045.862	0.093	729134.423
157 LOWER MATECUMBE KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	hawk channel	Spoil Area	N	1.5	0	100	Fill	1	Medium	225	27641.96	0.635	729633.451
158 LOWER MATECUMBE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	matecumbe harbor	Channel	N	0	0	100	Fill	1	Medium	265	2962.684	0.068	729162.356
159 LONG KEY/LAYTON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Long Key Creek	Channel	N	4	0	100	Fill	1	Low	180	18872.27	0.433	721853.756
160 LONG KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Long Key Creek	Channel	N	0	0	100	Fill	1	Low	180	4822.924	0.111	721628.622
161 LONG KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Long Key Creek	Channel	N	0	0	100	Fill	1	Low	180	3339.441	0.077	721544.822
162 LONG KEY/LAYTON	Pumping. Backfilling, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.A	III.B	High	Florida Bay	Shallow Nearshore	N	4	0	100	Fill	2	High	80,350	8518.071	0.196	718803.149
163 LONG KEY/LAYTON	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Fair, Poor	C.MEDIUM	II.A	III.B	High	Florida Bay	Shallow Nearshore	N	4	0	100	Fill	1	High	350	7783.388	0.179	718483.660
164 DUCK KEY	BMPs, AWWT/SWM	Poor	A.JUMBO	II.B	III.B	High	Hawk Channel	Spoil Area	N	6	0	100	Fill	4	Medium	350,170, 350,315	204244.9	4.689	712378.900
165 GRASSY KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	Low	Grassy Key bight	Plugged	N	4	100	0	Fill	0	Low	NA	21454.5	0.493	706186.035
166 GRASSY KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	Low	grassy Key bight	Shallow Nearshore	N	3.5	100	0	Fill	0	Low	NA	15116.6	0.347	706648.324
167 CRAWL KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	Low	crawl key channel	Shallow Nearshore	N	0	100	0	Fill	0	Low	NA	8387.322	0.193	705365.254
168 CRAWL KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	Low	crawl key channel	Shallow Nearshore	N	0	100	0	Fill	0	Low	NA	13009.93	0.299	705440.772
169 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.A	III.B	High	Florida Bay	Shallow Nearshore	N	0	0	100	Fill	0	High	NA	3057.38	0.07	698989.886

Set 5 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
141 PLANTATION KEY	108134.381	1.52	1.52	4.57	457.658	213.548	0.210	14879	0.326											RL-.5
142 PLANTATION KEY	108129.485	2.85	2.85	4.57	185.550	50.467	0.050	6574	0.144											RM-8
143 UPPER MATECUMBE	105182.500	4.03	4.03	4.57	572.225	222.637	0.220	40994	0.897											
144 LOWER MATECUMBE KEY	102202.700	2.65	2.65	4.57	1185.676	297.662	0.300	36007	0.788											RM-8
145 LOWER MATECUMBE KEY	101270.058	1.56	1.56	5.49	1121.232	540.858	0.540	46348	0.844											RM-8
146 LOWER MATECUMBE KEY	101266.862	2.46	2.46	4.57	251.640	100.992	0.100	11333	0.248											
147 LOWER MATECUMBE KEY	100979.566	0.99	0.99	4.57	536.360	245.425	0.250	11130	0.244											RM-8
148 LOWER MATECUMBE KEY	100789.708	1.38	1.38	2.13	579.162	277.297	0.280	8154	0.383											RM-8
149 LOWER MATECUMBE KEY	100048.417	7.45	7.45	4.57	2371.512	790.345	0.790	269152	5.890											
150 LOWER MATECUMBE KEY	99806.501	13.06	13.06	4.57	10731.917	1415.488	1.420	845105	18.492											
151 LOWER MATECUMBE KEY	99780.947	8.17	8.17	4.57	1509.395	639.677	0.640	238901	5.228											RM-8
152 LOWER MATECUMBE KEY	99492.084	4.15	4.15	4.57	3830.189	947.498	0.950	179553	3.929	culvert to #188 lagoon										RM-8
153 LOWER MATECUMBE KEY	99229.503	2.39	2.39	4.57	1124.592	543.621	0.540	59401	1.300	culverts to 189, 186 & 187; note - lagoon is reportedly 30 feet deep										RM-8
154 LOWER MATECUMBE KEY	99188.017	4.26	4.26	4.57	1706.478	509.475	0.510	99155	2.170											
155 LOWER MATECUMBE KEY	98899.208	4.94	4.94	4.57	2264.149	714.889	0.710	161343	3.530	culvert to #188 lagoon										INS
156 LOWER MATECUMBE KEY	98814.641	3.21	3.21	4.57	304.099	126.234	0.130	18490	0.405											
157 LOWER MATECUMBE KEY	98754.460	2.84	2.84	4.57	2190.560	971.607	0.970	126324	2.764	culvert to #188 lagoon										RM-8
158 LOWER MATECUMBE KEY	98751.532	3.27	3.27	4.57	232.679	90.712	0.090	13539	0.296			Y	Y	Y	N	Y	GOOD	#23	Bay Watch	RM-8
159 LONG KEY/LAYTON	95434.828	3.56	3.56	4.57	2404.981	530.275	0.530	86246	1.887											RM-8
160 LONG KEY	95316.762	1.54	1.54	4.57	650.122	312.611	0.310	22041	0.482											RM-8
161 LONG KEY	95269.171	1.54	1.54	4.57	461.744	217.269	0.220	15261	0.334											RM-8
162 LONG KEY/LAYTON	93482.187	2.37	2.37	4.57	1286.160	359.569	0.360	38928	0.852											RH-12
163 LONG KEY/LAYTON	93376.392	2.31	2.31	4.57	1112.518	337.124	0.340	35570	0.778											RH-12
164 DUCK KEY	89456.973	6.83	6.83	2.13	13089.531	2989.139	2.990	435042	20.424			Y	Y	Y	N	Y	GOOD	#7	Bay Watch	
165 GRASSY KEY	87540.757	3.56	3.56	4.57	2131.709	602.688	0.600	98047	2.145											RL-.5
166 GRASSY KEY	86934.776	3.02	3.02	4.57	1816.323	500.188	0.500	69083	1.512											RL-.5
167 CRAWL KEY	86183.653	2.85	2.85	4.57	630.933	293.785	0.290	38330	0.839											
168 CRAWL KEY	86055.318	3.74	3.74	4.57	754.117	347.577	0.350	59455	1.301											MC
169 MARATHON	85784.716	2.9	2.9	4.57	271.265	105.491	0.110	13972	0.306											

Set 5 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
141 PLANTATION KEY	300							4	UNKNOWN SYSTEM,	1978	265	c:\residential canal\linked\Small Canals.pdf
142 PLANTATION KEY	300							4	NULL	0	265	c:\residential canal\linked\Small Canals.pdf
143 UPPER MATECUMBE	225											c:\residential canal\linked\Medium Canals.pdf
144 LOWER MATECUMBE KEY	90							12	CESSPOOL, UNKNOWN SYSTEM,	1958	974	c:\residential canal\linked\Medium Canals.pdf
145 LOWER MATECUMBE KEY	135							37	ATU, SEPTIC TANK, NULL	1979	974	c:\residential canal\linked\Medium Canals.pdf
146 LOWER MATECUMBE KEY	315											c:\residential canal\linked\Small Canals.pdf
147 LOWER MATECUMBE KEY	135							12	ATU, UNKNOWN SYSTEM, NULL	1989	974	c:\residential canal\linked\Small Canals.pdf
148 LOWER MATECUMBE KEY	135							13	ATU, SEPTIC TANK, UNKNOWN SYSTEM, CESSPOOL, NULL	1957	974	c:\residential canal\linked\Small Canals.pdf
149 LOWER MATECUMBE KEY	90							11	SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	974	c:\residential canal\linked\Large Canals.pdf
150 LOWER MATECUMBE KEY	330							257	ATU, FDEP SECOND, UNKNOWN SYSTEM, NULL	1978	974	c:\residential canal\linked\Jumbo Canals.pdf
151 LOWER MATECUMBE KEY	70							28	ATU, SUB-STD SEPTIC, SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	974	c:\residential canal\linked\Large Canals.pdf
152 LOWER MATECUMBE KEY	315							116	SUB-STD SEPTIC, SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	974	c:\residential canal\linked\Large Canals.pdf
153 LOWER MATECUMBE KEY	315							16	UNKNOWN SYSTEM, NULL	0	974	c:\residential canal\linked\Medium Canals.pdf
154 LOWER MATECUMBE KEY	285							37	ATU, CESSPOOL, UNKNOWN SYSTEM, NULL	1991	974	c:\residential canal\linked\Large Canals.pdf
155 LOWER MATECUMBE KEY	285							54	FDEP SECOND, UNKNOWN SYSTEM, NULL	0	974	c:\residential canal\linked\Large Canals.pdf
156 LOWER MATECUMBE KEY	265							6	SEPTIC TANK, NULL	0	974	c:\residential canal\linked\Small Canals.pdf
157 LOWER MATECUMBE KEY	225							68	CESSPOOL, UNKNOWN SYSTEM, NULL	0	974	c:\residential canal\linked\Large Canals.pdf
158 LOWER MATECUMBE KEY	265							5	UNKNOWN SYSTEM, NULL	1985	974	c:\residential canal\linked\Small Canals.pdf
159 LONG KEY/LAYTON	180							62	NULL	0	541	c:\residential canal\linked\Medium Canals.pdf
160 LONG KEY	180							18	NULL	1981	541	c:\residential canal\linked\Small Canals.pdf
161 LONG KEY	180							13	NULL	0	541	c:\residential canal\linked\Small Canals.pdf
162 LONG KEY/LAYTON	80	350						67	FDEP SECOND,	1990	541	c:\residential canal\linked\Medium Canals.pdf
163 LONG KEY/LAYTON	350							64	FDEP SECOND,	1991	541	c:\residential canal\linked\Medium Canals.pdf
164 DUCK KEY	350	170	350									c:\residential canal\linked\Jumbo Canals.pdf
165 GRASSY KEY	NA							1	NULL	0	1829	c:\residential canal\linked\Large Canals.pdf
166 GRASSY KEY	NA							12	NULL	0	1829	c:\residential canal\linked\Medium Canals.pdf
167 CRAWL KEY	NA							0	NULL	0	1624	c:\residential canal\linked\Medium Canals.pdf
168 CRAWL KEY	NA							11	NULL	0	1624	c:\residential canal\linked\Medium Canals.pdf
169 MARATHON	NA											c:\residential canal\linked\Small Canals.pdf

Set 5 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
170 MARATHON	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Poor	B.LARGE	II.A	III.B	High	Florida Bay	Shallow Nearshore	N	2	0	100	Fill	1	High	315	23048.9	0.529	698846.099
171 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	Med	Florida Bay	Shallow Nearshore	N	2	30	70	Fill	1	Medium	200	8937.933	0.205	699950.836
172 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	Low	Bonefish Bay	Spoil Area	N	0	100	0	Fill	1	Low	0	2571.114	0.059	703654.173
173 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	Low	Bonefish Bay	Spoil Area	N	0	100	0	Fill	1	Low	0	4483.224	0.103	703545.157
174 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	Low	Bonefish Bay	Spoil Area	N	0	100	0	Fill	1	Low	0	7069.315	0.162	703423.501
175 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Bonefish Bay	Spoil Area	N	0	0	100	Fill	1	Low	180	4822.71	0.111	701968.372
176 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	Low	Bonefish Bay	Spoil Area	N	0	100	0	Fill	1	Low	0	10703.82	0.246	703312.905
177 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	Low	Bonefish Bay	Spoil Area	N	0	100	0	Fill	1	Low	0	18107.63	0.416	703192.829
178 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	Low	Bonefish Bay	Spoil Area	N	0	100	0	Fill	1	Low	0	15821.06	0.363	703036.193
179 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	Low	Bonefish Bay	Spoil Area	N	0	100	0	Fill	1	Low	0	12045.06	0.277	702901.968
180 MARATHON	Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Florida Bay	Spoil Area	N	0	0	100	Fill	1	Medium	20	7423.779	0.17	700974.586
181 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Bonefish Bay	Spoil Area	N	0	0	100	Fill	1	Low	0	27628.24	0.634	702764.664
182 MARATHON	Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	0	0	100	Fill	1	Low	170	6764.775	0.155	701394.852
183 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Vaca Cut	Channel	N	0	0	100	Fill	1	Medium	350	2996.718	0.069	700483.169
184 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Florida Bay	Shallow Nearshore	N	6	0	100	Fill	1	Medium	350	22332.39	0.513	699549.706
185 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Bonefish Bay	Spoil Area	N	0	0	100	Fill	1	Low	0	21577.39	0.495	702628.789
186 MARATHON	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Good, Poor	D.SMALL	II.A	III.B	High	Florida Bay	Spoil Area	N	0	0	100	Fill	1	High	320	2131.283	0.049	698729.473
187 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	Med	Key Colony Harbor	Spoil Area	N	0	50	50	Fill	1	Low	180	4361.139	0.1	700947.979
188 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	0	0	100	Fill	1	Low	150	2672.112	0.061	701204.994
189 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	0	0	100	Fill	1	Low	150	5651.458	0.13	701243.177
190 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Bonefish Bay	Spoil Area	N	0	0	100	Fill	1	Low	0	22301.29	0.512	702485.014
191 MARATHON	Berm And Swale, Reduction in Seaweed Loading, BMPs, AWWT/SWM	Poor	B.LARGE	II.A	III.B	High	Florida Bay	Spoil Area	N	7	0	100	Fill	1	High	325	63241.81	1.452	698431.677
192 MARATHON	Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Key Colony Harbor	Spoil Area	Y	2	0	100	Fill	1	Low	80	12713.08	0.292	700741.425
193 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Bonefish Bay	Spoil Area	N	0	0	100	Fill	1	Low	0	20748.64	0.476	702338.079
194 MARATHON	Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	0	0	100	Fill	1	Low	270	10778.71	0.247	701786.678
195 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Bonefish Bay	Spoil Area	N	0	0	100	Fill	1	Low	0	21667.25	0.497	702205.363
196 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Vaca Cut	Channel	N	4	0	100	Fill	4	Medium	160, 160, 60, 60	15140.6	0.348	700074.977
197 MARATHON	Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Bonefish Bay	Spoil Area	N	0	0	100	Fill	1	Low	0	14747.71	0.339	702039.469
198 MARATHON	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Poor	B.LARGE	II.A	III.A	High	Florida Bay	Spoil Area	N	2	0	100	Dredge	2	High	0, 0	21074.89	0.484	697530.565
199 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	1.5	0	100	Fill	1	Low	150	4362.297	0.1	700730.500
200 MARATHON	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	2	0	100	Dredge	2	Medium	160, 160	7024.838	0.161	699825.454
201 MARATHON	Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	0	0	100	Fill	1	Low	270	13389.76	0.307	701723.480
202 MARATHON	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	0	0	100	Dredge	1	Medium	180	1245.654	0.029	699264.449

Set 6 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
170 MARATHON	85564.447	4.47	4.47	4.57	1364.802	515.236	0.520	105333	2.305	culvert at north west leg										
171 MARATHON	85133.956	2.3	2.3	4.57	1002.223	389.317	0.390	40846	0.894											RH-12
172 MARATHON	85005.014	2.72	2.72	4.57	227.636	94.691	0.090	11750	0.257		DEP-owned land??									RL-.5
173 MARATHON	84979.735	3.16	3.16	4.57	328.881	141.949	0.140	20488	0.448		DEP-owned land??									
174 MARATHON	84951.296	3.85	3.85	4.57	426.982	183.437	0.180	32307	0.707		DEP-owned land??									RL-.5
175 MARATHON	84948.136	3.34	3.34	4.57	345.906	144.425	0.140	22040	0.482											MCF
176 MARATHON	84918.117	4.37	4.37	4.57	561.632	244.784	0.240	48916	1.070		DEP-owned land??									RL-.5
177 MARATHON	84881.778	5.72	5.72	4.57	722.830	316.400	0.320	82752	1.811		DEP-owned land??									RL-.5
178 MARATHON	84877.370	5.58	5.58	0.91	689.078	283.302	0.280	14397	1.582											RC-.25
179 MARATHON	84864.080	3.97	3.97	0.91	691.028	303.211	0.300	10961	1.205		DEP-owned land??									
180 MARATHON	84815.421	4.73	4.73	4.57	397.900	156.885	0.160	33927	0.742	Culvert to 233.1										
181 MARATHON	84761.703	5.54	5.54	4.57	1055.729	498.672	0.500	126261	2.763											RM-8
182 MARATHON	84747.483	4.01	4.01	4.57	420.005	168.633	0.170	30915	0.676											MC
183 MARATHON	84714.524	2.03	2.03	4.57	333.212	147.976	0.150	13695	0.300											
184 MARATHON	84700.962	4.51	4.51	4.57	2059.627	495.529	0.500	102059	2.233											RM-8
185 MARATHON	84670.066	4.83	4.83	4.57	950.299	446.664	0.450	98609	2.158											RL-.5
186 MARATHON	84644.888	1.38	1.38	4.57	341.925	154.055	0.150	9740	0.213											
187 MARATHON	84633.443	3.65	3.65	4.57	340.062	119.498	0.120	19930	0.436	Culvert to 233										RM-8
188 MARATHON	84568.741	1.68	1.68	4.57	346.010	159.390	0.160	12212	0.267											
189 MARATHON	84561.050	3.05	3.05	4.57	426.378	185.171	0.190	25827	0.565											RM-8
190 MARATHON	84556.310	4.79	4.79	4.57	973.712	466.049	0.470	101917	2.230											RL-.5
191 MARATHON	84525.068	9.2	9.2	4.57	3788.742	687.335	0.690	289015	6.324			Y	Y	Y	N	Y	GOOD	#37	Bay Watch	RM-8
192 MARATHON	84464.593	14.46	14.46	4.57	865.581	87.908	0.090	58099	1.271											MC
193 MARATHON	84456.773	4.75	4.75	4.57	921.310	437.208	0.440	94821	2.075											RM-8
194 MARATHON	84414.115	4.52	4.52	4.57	534.971	238.357	0.240	49259	1.078											MCF
195 MARATHON	84366.716	4.9	4.9	4.57	924.483	441.775	0.440	99019	2.167											RL-.5
196 MARATHON	84326.489	2.92	2.92	4.57	1718.076	517.881	0.520	69193	1.514			Y	Y	Y	N	Y	GOOD	#38	Bay Watch	RM-8
197 MARATHON	84286.139	4.24	4.24	4.57	749.354	347.645	0.350	67397	1.475											RL-.5
198 MARATHON	84284.606	1.87	1.87	4.57	2307.504	1127.480	1.130	96312	2.107											RM-8
199 MARATHON	84278.809	3.71	3.71	4.57	412.142	117.667	0.120	19936	0.436											RM-8
200 MARATHON	84273.503	1.6	1.6	4.57	947.862	437.763	0.440	32104	0.702											MC
201 MARATHON	84241.901	4.21	4.21	4.57	685.822	317.958	0.320	61191	1.339											MCF
202 MARATHON	84080.564	1.3	1.3	4.57	248.619	95.986	0.100	5693	0.125											MC

Set 6 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
170 MARATHON												c:\residential canal\linked\Large Canals.pdf
171 MARATHON	200							2	NULL	1975	3208	c:\residential canal\linked\Medium Canals.pdf
172 MARATHON	0							5	NULL	0	1624	c:\residential canal\linked\Small Canals.pdf
173 MARATHON	0							8	NULL	0	1624	c:\residential canal\linked\Small Canals.pdf
174 MARATHON	0							11	NULL	0	1624	c:\residential canal\linked\Medium Canals.pdf
175 MARATHON	180							8	NULL	1980	1624	c:\residential canal\linked\Small Canals.pdf
176 MARATHON	0							15	NULL	0	1624	c:\residential canal\linked\Medium Canals.pdf
177 MARATHON	0							19	NULL	0	1624	c:\residential canal\linked\Medium Canals.pdf
178 MARATHON	0							23	ATU, NULL	0	1624	c:\residential canal\linked\Medium Canals.pdf
179 MARATHON	0											c:\residential canal\linked\Medium Canals.pdf
180 MARATHON	20							3	UNKNOWN SYSTEM, NULL	0	1624	c:\residential canal\linked\Medium Canals.pdf
181 MARATHON	0							68	NULL	0	1624	c:\residential canal\linked\Large Canals.pdf
182 MARATHON	170							198	ATU, UNKNOWN SYSTEM, NULL	1971	1624	c:\residential canal\linked\Medium Canals.pdf
183 MARATHON	350							0	NULL	0	1624	c:\residential canal\linked\Small Canals.pdf
184 MARATHON	350							37	SEPTIC TANK, UNKNOWN SYSTEM,	1958	3208	c:\residential canal\linked\Large Canals.pdf
185 MARATHON	0							13	NULL	0	1624	c:\residential canal\linked\Large Canals.pdf
186 MARATHON	320											c:\residential canal\linked\Small Canals.pdf
187 MARATHON	180							394	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1961	1624	c:\residential canal\linked\Small Canals.pdf
188 MARATHON	150							394	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	1624	c:\residential canal\linked\Small Canals.pdf
189 MARATHON	150							198	ATU, UNKNOWN SYSTEM, NULL	0	1624	c:\residential canal\linked\Small Canals.pdf
190 MARATHON	0							13	NULL	0	1624	c:\residential canal\linked\Large Canals.pdf
191 MARATHON	325							95	UNKNOWN SYSTEM, NULL	1977	3208	c:\residential canal\linked\Large Canals.pdf
192 MARATHON	80							394	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1972	1624	c:\residential canal\linked\Medium Canals.pdf
193 MARATHON	0							14	UNKNOWN SYSTEM, NULL	1989	1624	c:\residential canal\linked\Large Canals.pdf
194 MARATHON	270							198	ATU, UNKNOWN SYSTEM, NULL	1959	1624	c:\residential canal\linked\Medium Canals.pdf
195 MARATHON	0							13	NULL	0	1624	c:\residential canal\linked\Large Canals.pdf
196 MARATHON	160	160	60					21	UNKNOWN SYSTEM,	1968	3208	c:\residential canal\linked\Medium Canals.pdf
197 MARATHON	0							11	NULL	1990	1624	c:\residential canal\linked\Medium Canals.pdf
198 MARATHON	0	0						111	SEPTIC TANK, UNKNOWN SYSTEM,	1982	3208	c:\residential canal\linked\Large Canals.pdf
199 MARATHON	150							394	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1969	1624	c:\residential canal\linked\Small Canals.pdf
200 MARATHON	160	160						29	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1987	3208	c:\residential canal\linked\Medium Canals.pdf
201 MARATHON	270							198	ATU, UNKNOWN SYSTEM, NULL	0	1624	c:\residential canal\linked\Medium Canals.pdf
202 MARATHON	180							3	UNKNOWN SYSTEM,	1958	3208	c:\residential canal\linked\Small Canals.pdf

Set 6 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
203 MARATHON	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	0	0	100	Dredge	1	Medium	180	3852.022	0.088	698939.361
204 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	2	0	100	Dredge	1	Medium	180	4336.569	0.1	698857.931
205 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	0	0	100	Fill	1	Low	340	34687.57	0.796	701355.353
206 MARATHON	Berm And Swale, Reduction in Seaweed Loading, BMPs, AWWT/SWM	Poor	B.LARGE	II.A	III.B	High	Florida Bay	Spoil Area	Y	1	0	100	Fill	1	High	315	53860.84	1.236	696965.562
207 MARATHON	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Plugged	N	0	0	100	Dredge	0	Medium	NA	2322.117	0.053	698411.422
208 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	0	0	100	Dredge	1	Medium	180	5135.514	0.118	698662.977
209 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	0	0	100	Fill	1	Low	340	11592.48	0.266	701712.421
210 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	0	0	100	Fill	1	Low	340	28636.72	0.657	701045.684
211 MARATHON	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	0	0	100	Dredge	1	Medium	180	2010.973	0.046	698580.633
212 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	0	0	100	Fill	1	Low	340	13000.35	0.298	701604.984
213 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	0	0	100	Fill	1	Low	340	27153.96	0.623	700936.667
214 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	Low	Vaca Cut	Channel	N	0	90	10	Fill	1	Medium	340	19620.34	0.45	700475.323
215 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	0	0	100	Fill	1	Low	340	14677.81	0.337	701503.868
216 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	Med	Key Colony Harbor	Spoil Area	N	0	50	50	Fill	1	Low	340	22416.12	0.515	700592.239
217 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	0	0	100	Fill	1	Low	340	29560.32	0.679	700841.871
218 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	Low	Vaca Cut	Channel	N	0	90	10	Fill	1	Medium	340	7933.009	0.182	700374.207
219 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Key Colony Harbor	Spoil Area	N	0	0	100	Fill	1	Low	340	21462.56	0.493	700726.535
220 MARATHON	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Good, Poor	D.SMALL	II.A	III.B	Med	Florida Bay	Shallow Nearshore	N	0	50	50	Fill	1	High	315	5333.3	0.122	696598.563
221 MARATHON	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	1	0	100	Dredge	1	Medium	180	2656.811	0.061	698018.467
222 MARATHON	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	1	0	100	Dredge	1	Medium	180	3089.915	0.071	698094.172
223 MARATHON	Berm And Swale, Reduction in Seaweed Loading, BMPs, AWWT/SWM	Poor	B.LARGE	II.A	III.B	High	Florida Bay	Shallow Nearshore	N	4	0	100	Fill	1	High	315	21217.79	0.487	696754.656
224 MARATHON	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	0	0	100	Dredge	1	Medium	180	2897.948	0.067	698254.493
225 MARATHON	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	0	0	100	Dredge	1	Medium	180	2243.512	0.052	698177.059
226 MARATHON	Circulation Devices, Backfilling, Nutrient Removal, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	0	0	100	Dredge	1	Medium	180	960.465	0.022	697937.788
227 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	0	0	100	Dredge	1	Medium	180	4237.684	0.097	697857.881
228 MARATHON	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	0	0	100	Dredge	1	Medium	180	3429.66	0.079	697617.574
229 BIG PINE KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Pine Channel	Spoil Area	N	11	0	100	Fill	1	Medium	270	32159.06	0.738	662963.051
230 MARATHON	Circulation Devices, Backfilling, Nutrient Removal, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	0	0	100	Dredge	1	Medium	180	932.682	0.021	697546.800
231 MARATHON	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	0	0	100	Dredge	1	Medium	180	1900.407	0.044	697475.763

Set 7 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
203 MARATHON	83947.592	1.4	1.4	4.57	570.053	274.536	0.270	17604	0.385											RM-8
204 MARATHON	83915.931	1.7	1.7	4.57	602.505	255.296	0.260	19818	0.434											RM-8
205 MARATHON	83902.212	6.02	6.02	4.57	1258.887	576.539	0.580	158522	3.469											RH-12
206 MARATHON	83846.411	8.18	8.18	4.57	1932.876	658.330	0.660	246144	5.386		is basin at end a marina? Check with Rich Jones									RM-8
207 MARATHON	83821.901	0.91	0.91	4.57	520.228	255.181	0.260	10612	0.232											RL-.5
208 MARATHON	83811.043	1.6	1.6	4.57	660.288	320.454	0.320	23469	0.514											
209 MARATHON	83783.717	2.93	2.93	4.57	845.826	395.933	0.400	52978	1.159											RH-12
210 MARATHON	83777.397	3.71	3.71	4.57	1604.037	771.039	0.770	130870	2.864											RH-12
211 MARATHON	83773.943	1.07	1.07	4.57	392.409	188.249	0.190	9190	0.201											RM-8
212 MARATHON	83752.118	3.22	3.22	4.57	857.185	403.638	0.400	59412	1.300											RM-8
213 MARATHON	83744.218	3.3	3.3	4.57	1697.642	823.641	0.820	124094	2.715											RH-12
214 MARATHON	83718.939	3.23	3.23	4.57	1236.063	607.768	0.610	89665	1.962											
215 MARATHON	83707.879	3.48	3.48	4.57	904.722	422.351	0.420	67078	1.468											RH-12
216 MARATHON	83701.559	2.6	2.6	4.57	1746.622	861.144	0.860	102442	2.242											
217 MARATHON	83690.500	3.66	3.66	4.57	1671.986	808.716	0.810	135091	2.956											
218 MARATHON	83676.280	2.97	2.97	4.57	574.935	266.800	0.270	36254	0.793											RM-8
219 MARATHON	83662.061	2.43	2.43	4.57	1797.983	882.663	0.880	98084	2.146											RM-8
220 MARATHON	83612.844	3	3	4.57	461.588	177.551	0.180	24373	0.533											
221 MARATHON	83592.537	1.31	1.31	4.57	441.302	203.330	0.200	12142	0.266											MC
222 MARATHON	83591.758	1.53	1.53	4.57	448.847	202.075	0.200	14121	0.309											RM-8
223 MARATHON	83585.579	32.26	32.26	4.57	1383.407	65.766	0.070	96965	2.122											MC
224 MARATHON	83554.146	1.32	1.32	4.57	457.371	218.984	0.220	13244	0.290											RH-12
225 MARATHON	83540.485	1.35	1.35	4.57	357.157	166.743	0.170	10253	0.224											RH-12
226 MARATHON	83515.848	1.83	1.83	4.57	187.914	52.577	0.050	4389	0.096											MC
227 MARATHON	83499.498	1.43	1.43	4.57	670.652	296.815	0.300	19366	0.424											RM-8
228 MARATHON	83345.318	1	1	4.57	694.354	341.632	0.340	15674	0.343											RH-12
229 BIG PINE KEY	83170.196	4.74	4.74	4.57	5089.705	677.871	0.680	146967	3.216			Y	Y	Y	N	Y	GOOD	#87	Bay Watch	
230 MARATHON	83149.265	1.42	1.42	4.57	180.912	65.902	0.070	4262	0.093											RH-12
231 MARATHON	83073.196	1.63	1.63	4.57	286.417	116.913	0.120	8685	0.190											RM-8

Set 7 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
203 MARATHON	180							15	UNKNOWN SYSTEM, NULL	1972	3208	c:\residential canal\linked\Small Canals.pdf
204 MARATHON	180							19	ATU, UNKNOWN SYSTEM, NULL	0	3208	c:\residential canal\linked\Small Canals.pdf
205 MARATHON	340							394	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1959	1624	c:\residential canal\linked\Large Canals.pdf
206 MARATHON	315							13	UNKNOWN SYSTEM, NULL	1981	3208	c:\residential canal\linked\Large Canals.pdf
207 MARATHON	NA							6	UNKNOWN SYSTEM, NULL	0	3208	c:\residential canal\linked\Small Canals.pdf
208 MARATHON	180							13	UNKNOWN SYSTEM, NULL	0	3208	c:\residential canal\linked\Small Canals.pdf
209 MARATHON	340							198	ATU, UNKNOWN SYSTEM, NULL	1989	1624	c:\residential canal\linked\Medium Canals.pdf
210 MARATHON	340							394	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	1624	c:\residential canal\linked\Large Canals.pdf
211 MARATHON	180							10	UNKNOWN SYSTEM, NULL	1957	3208	c:\residential canal\linked\Small Canals.pdf
212 MARATHON	340							198	ATU, UNKNOWN SYSTEM, NULL	1964	1624	c:\residential canal\linked\Medium Canals.pdf
213 MARATHON	340							394	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1995	1624	c:\residential canal\linked\Large Canals.pdf
214 MARATHON	340							28	NULL	0	1624	c:\residential canal\linked\Medium Canals.pdf
215 MARATHON	340							198	ATU, UNKNOWN SYSTEM, NULL	1959	1624	c:\residential canal\linked\Medium Canals.pdf
216 MARATHON	340							394	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1984	1624	c:\residential canal\linked\Large Canals.pdf
217 MARATHON	340							394	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1969	1624	c:\residential canal\linked\Large Canals.pdf
218 MARATHON	340							10	NULL	0	1624	c:\residential canal\linked\Medium Canals.pdf
219 MARATHON	340							394	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1961	1624	c:\residential canal\linked\Large Canals.pdf
220 MARATHON	315											c:\residential canal\linked\Small Canals.pdf
221 MARATHON	180							11	UNKNOWN SYSTEM, NULL	0	3208	c:\residential canal\linked\Small Canals.pdf
222 MARATHON	180							14	UNKNOWN SYSTEM, NULL	1976	3208	c:\residential canal\linked\Small Canals.pdf
223 MARATHON	315							19	SEPTIC TANK, UNKNOWN SYSTEM,	1970	3208	c:\residential canal\linked\Large Canals.pdf
224 MARATHON	180							19	UNKNOWN SYSTEM, NULL	1966	3208	c:\residential canal\linked\Small Canals.pdf
225 MARATHON	180							14	UNKNOWN SYSTEM, NULL	1950	3208	c:\residential canal\linked\Small Canals.pdf
226 MARATHON	180							1	NULL	1958	3208	c:\residential canal\linked\Small Canals.pdf
227 MARATHON	180							16	UNKNOWN SYSTEM, NULL	1983	3208	c:\residential canal\linked\Small Canals.pdf
228 MARATHON	180							21	UNKNOWN SYSTEM, NULL	1975	3208	c:\residential canal\linked\Small Canals.pdf
229 BIG PINE KEY	270							124	SEPTIC TANK, UNKNOWN SYSTEM, ATU, NULL	0	1239	c:\residential canal\linked\Large Canals.pdf
230 MARATHON	180							3	UNKNOWN SYSTEM, NULL	1976	3208	c:\residential canal\linked\Small Canals.pdf
231 MARATHON	180							7	UNKNOWN SYSTEM,	1963	3208	c:\residential canal\linked\Small Canals.pdf

Set 7 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
232 MARATHON	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	2	0	100	Dredge	1	Medium	180	7190.828	0.165	697254.932
233 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Pine Channel	Spoil Area	N	1	0	100	Fill	1	Medium	270	2738.535	0.063	662773.950
234 MARATHON	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Vaca Key Bight	Spoil Area	N	0	0	100	Dredge	1	Medium	180	903.218	0.021	697385.957
235 MARATHON	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Good, Poor	D.SMALL	II.A	III.B	High	Florida Bay	Shallow Nearshore	N	0	0	100	Fill	1	High	0	1676.502	0.038	695073.388
236 MARATHON	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Good, Poor	D.SMALL	II.A	III.B	High	Florida Bay	Spoil Area	N	0	0	100	Fill	1	High	0	2139.512	0.049	694915.360
237 MARATHON	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Good, Poor	D.SMALL	II.A	III.B	High	Florida Bay	Spoil Area	N	0	0	100	Fill	1	High	0	2204.715	0.051	694997.463
238 BIG PINE KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Pine Channel	Spoil Area	N	23	15	85	Fill	1	Medium	270	71768.9	1.648	663364.502
239 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Vaca Key Bight	Spoil Area	N	0	0	100	Fill	1	Medium	180	5367.502	0.123	696313.877
240 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Vaca Key Bight	Spoil Area	N	0	0	100	Fill	1	Medium	180	5779.01	0.133	696245.581
241 MARATHON	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Fair, Poor	C.MEDIUM	II.A	III.B	High	Florida Bay	Shallow Nearshore	N	0	0	100	Fill	1	High	0	9234.846	0.212	694553.600
242 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Vaca Key Bight	Spoil Area	N	0	0	100	Fill	1	Medium	180	10072.89	0.231	696174.244
243 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Boot Key Harbor	Spoil Area	N	6	0	100	Fill	1	Low	185	39420.12	0.905	695056.296
244 MARATHON	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Good, Poor	D.SMALL	II.A	III.B	High	Florida Bay	Spoil Area	N	0	0	100	Fill	1	High	0	2620.408	0.06	692562.339
245 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Boot Key Harbor	Spoil Area	N	0	0	100	Fill	1	Low	165	3315.087	0.076	693517.958
246 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Boot Key Harbor	Spoil Area	N	0	0	100	Fill	1	Low	165	6900.339	0.158	693627.937
247 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Boot Key Harbor	Spoil Area	N	1	0	100	Fill	1	Low	165	4820.108	0.111	693406.818
248 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Boot Key Harbor	Spoil Area	N	2	0	100	Fill	2	Low	165,165	8088.239	0.186	693214.100
249 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Boot Key Harbor	Spoil Area	N	0	0	100	Fill	1	Low	165	4250.788	0.098	693337.603
250 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Boot Key Harbor	Spoil Area	N	1	0	100	Fill	1	Low	165	3646.045	0.084	693094.771
251 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Sombrero Key Basins	Spoil Area	N	3	0	100	Fill	2	Low	280, 225	39359.46	0.904	695393.586
252 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Knight Key Channel	Spoil Area	N	2	0	100	Fill	1	Medium	195	9486.069	0.218	691033.705
253 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Sombrero Key Basins	Spoil Area	N	1	0	100	Fill	2	Low	280, 190	23068.42	0.53	695164.816
254 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Sombrero Key Basins	Spoil Area	N	0	0	100	Fill	2	Low	180, 355	29548.23	0.678	695056.390
255 BIG PINE KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Bogie Channel	Spoil Area	N	7	20	80	Fill	1	Medium	90	19755.31	0.454	665737.685
256 MARATHON	Berm And Swale, BMPs, AWWT/SWM	Poor	A.JUMBO	II.B	III.B	High	Sister Creek	Channel	N	10	0	100	Fill	2	Medium	280, 225	106377	2.442	694754.756
257 MARATHON	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Vaca Key Bight	Spoil Area	N	2	0	100	Fill	2	Medium	90, 90	33400.84	0.767	695294.492
258 BIG PINE KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.A	III.B	High	Bogie Channel	Spoil Area	N	4.5	10	90	Fill	1	High	90	20467.33	0.47	667440.606
259 BIG PINE	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Good, Poor	D.SMALL	II.A	III.B	High	Bogie Channel	Spoil Area	N	1	0	100	Fill	1	High	5	4169.067	0.096	667955.829
260 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Sombrero Key Basins	Spoil Area	N	2	0	100	Fill	1	Low	315	19862.7	0.456	695132.038
261 No Name Key	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Big Spanish Channel	Channel	N	6	0	100	Fill	2	Medium	0, 0	30613.66	0.703	669956.639
262 BIG TORCH KEY	Physical Connection, BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.A	Med	Niles Channel	Spoil Area	N	1	50	50	Dredge	1	Medium	270	23786.47	0.546	660092.783
263 BIG PINE KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Bogie Channel	Channel	N	4	0	100	Fill	1	Medium	90	13663.46	0.314	668001.677

Set 8 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
232 MARATHON	83059.943	1.79	1.79	4.57	942.508	402.122	0.400	32862	0.719											RM-8
233 BIG PINE KEY	83046.536	1.35	1.35	4.57	446.725	202.948	0.200	12515	0.274											RM-8
234 MARATHON	83013.665	1.19	1.19	4.57	166.831	75.656	0.080	4128	0.090											RM-8
235 MARATHON	83000.414	1.35	1.35	4.57	272.587	124.280	0.120	7662	0.168											RL-.5
236 MARATHON	82960.705	1.44	1.44	4.57	324.708	148.916	0.150	9778	0.214											RL-.5
237 MARATHON	82920.612	1.26	1.26	4.57	370.205	175.168	0.180	10076	0.220											
238 BIG PINE KEY	82781.909	5.27	5.27	4.57	10316.251	1361.637	1.360	327984	7.177		2 legs are plugged; 1 plugged leg is filled in; owned by FWS									RM-8
239 MARATHON	82729.458	1.61	1.61	4.57	691.821	333.303	0.330	24529	0.537											RM-8
240 MARATHON	82725.503	1.72	1.72	4.57	706.997	336.603	0.340	26410	0.578											RM-8
241 MARATHON	82715.599	2.97	2.97	4.57	656.162	311.276	0.310	42203	0.923											MC
242 MARATHON	82617.480	1.86	1.86	4.57	1104.673	542.345	0.540	46033	1.007											RH-12
243 MARATHON	82424.413	4.88	4.88	4.57	2636.777	808.018	0.810	180150	3.942											RH-12
244 MARATHON	82130.851	1.76	1.76	4.57	330.527	149.176	0.150	11975	0.262											M
245 MARATHON	82019.824	1.43	1.43	4.57	487.605	231.307	0.230	15150	0.332		may be a harbor - check with Rich Jones									RM-8
246 MARATHON	81990.864	2.06	2.06	4.57	710.005	335.173	0.340	31535	0.690											
247 MARATHON	81862.591	1.84	1.84	4.57	669.489	262.594	0.260	22028	0.482		may be a harbor - check with Rich Jones									RH-12
248 MARATHON	81851.700	2.84	2.84	4.57	1135.494	285.212	0.290	36963	0.809											RH-12
249 MARATHON	81843.065	1.62	1.62	4.57	555.813	262.584	0.260	19426	0.425											RH-12
250 MARATHON	81734.972	1.53	1.53	4.57	529.331	237.630	0.240	16662	0.365		culvert to 304 only goes 1/2 way under road; requests County conne									
251 MARATHON	81693.318	3.46	3.46	4.57	3976.515	1137.749	1.140	179873	3.936	culvert to #281										RM-8
252 MARATHON	81571.915	3.65	3.65	4.57	739.478	259.820	0.260	43351	0.949											
253 MARATHON	81425.053	3.13	3.13	4.57	1852.992	737.058	0.740	105423	2.307											RH-12
254 MARATHON	81414.024	3.94	3.94	4.57	1628.590	750.454	0.750	135035	2.955											RM-8
255 BIG PINE KEY	81283.285	3.42	3.42	4.57	3009.001	577.974	0.580	90282	1.976											MCF
256 MARATHON	81166.034	10.74	10.74	4.57	6765.962	990.802	0.990	486143	10.638			Y	Y	Y	N	Y	GOOD	#57,77,1	Bay Watch	
257 MARATHON	80843.486	3.62	3.62	4.57	1894.358	922.526	0.920	152642	3.340											RL-.5
258 BIG PINE KEY	80805.739	2.73	2.73	4.57	3390.958	750.301	0.750	93536	2.047											RM-8
259 BIG PINE	80735.070	3.34	3.34	4.57	684.421	124.952	0.120	19053	0.417											RM-8
260 MARATHON	80585.183	3.64	3.64	4.57	1215.372	546.150	0.550	90773	1.986											RM-8
261 No Name Key	80574.887	4.37	4.37	4.57	3147.680	700.916	0.700	139904	3.061											
262 BIG TORCH KEY	80532.867	1.86	1.86	4.57	2632.034	1280.705	1.280	108704	2.379											RM-8
263 BIG PINE KEY	80525.330	2.58	2.58	4.57	2780.107	530.007	0.530	62442	1.366											RM-8

Set 8 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
232 MARATHON	180							19	UNKNOWN SYSTEM, NULL	1970	3208	c:\residential canal\linked\Medium Canals.pdf
233 BIG PINE KEY	270							7	SEPTIC TANK, NULL	0	1239	c:\residential canal\linked\Small Canals.pdf
234 MARATHON	180							1	NULL	1953	3208	c:\residential canal\linked\Small Canals.pdf
235 MARATHON	0							1	UNKNOWN SYSTEM,	1956	384	c:\residential canal\linked\Small Canals.pdf
236 MARATHON	0							5	UNKNOWN SYSTEM, NULL	0	1039	c:\residential canal\linked\Small Canals.pdf
237 MARATHON	0							8	ATU, UNKNOWN SYSTEM, NULL	0	384	c:\residential canal\linked\Small Canals.pdf
238 BIG PINE KEY	270							246	SEPTIC OR ATU, FDEP SECOND, ATU, UNKNOWN SYSTEM, SEPTIC TANK, NULL	0	1239	c:\residential canal\linked\Large Canals.pdf
239 MARATHON	180							20	UNKNOWN SYSTEM, SEPTIC TANK, NULL	1976	1184	c:\residential canal\linked\Small Canals.pdf
240 MARATHON	180							22	UNKNOWN SYSTEM,	1985	1184	c:\residential canal\linked\Small Canals.pdf
241 MARATHON	0							2	NULL	0	1039	c:\residential canal\linked\Medium Canals.pdf
242 MARATHON	180							2	NULL	1976	1184	c:\residential canal\linked\Medium Canals.pdf
243 MARATHON	185							40	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1970	1078	c:\residential canal\linked\Large Canals.pdf
244 MARATHON	0							1	NULL	1966	918	c:\residential canal\linked\Small Canals.pdf
245 MARATHON	165							14	UNKNOWN SYSTEM, NULL	0	1046	c:\residential canal\linked\Small Canals.pdf
246 MARATHON	165							1	NULL	0	1046	c:\residential canal\linked\Medium Canals.pdf
247 MARATHON	165							24	ATU, UNKNOWN SYSTEM,	1963	1046	c:\residential canal\linked\Small Canals.pdf
248 MARATHON	165	165						14	UNKNOWN SYSTEM,	1991	1046	c:\residential canal\linked\Medium Canals.pdf
249 MARATHON	165							18	UNKNOWN SYSTEM,	1960	1046	c:\residential canal\linked\Small Canals.pdf
250 MARATHON	165							2	UNKNOWN SYSTEM, NULL	0	1046	c:\residential canal\linked\Small Canals.pdf
251 MARATHON	280	225						253	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1995	1078	c:\residential canal\linked\Large Canals.pdf
252 MARATHON	195							1	SEPTIC TANK,	0	918	c:\residential canal\linked\Medium Canals.pdf
253 MARATHON	280	190						253	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1987	1078	c:\residential canal\linked\Large Canals.pdf
254 MARATHON	180	355						253	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	1078	c:\residential canal\linked\Large Canals.pdf
255 BIG PINE KEY	90							12	UNKNOWN SYSTEM, NULL	1970	1239	c:\residential canal\linked\Medium Canals.pdf
256 MARATHON	280	225						253	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1991	1078	c:\residential canal\linked\Jumbo Canals.pdf
257 MARATHON	90	90						59	NULL	0	1184	c:\residential canal\linked\Large Canals.pdf
258 BIG PINE KEY	90							24	NULL	0	1402	c:\residential canal\linked\Large Canals.pdf
259 BIG PINE	5							128	ATU, UNKNOWN SYSTEM, NULL	1973	1402	c:\residential canal\linked\Small Canals.pdf
260 MARATHON	315							253	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1938	1078	c:\residential canal\linked\Medium Canals.pdf
261 No Name Key	0	0						78	ATU, NULL	0	1402	c:\residential canal\linked\Large Canals.pdf
262 BIG TORCH KEY	270							27	SEPTIC TANK, NULL	1994	46	c:\residential canal\linked\Large Canals.pdf
263 BIG PINE KEY	90							128	ATU, UNKNOWN SYSTEM, NULL	1973	1402	c:\residential canal\linked\Medium Canals.pdf

Set 8 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
264 MARATHON	Berm And Swale, BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Sister Creek	Channel	N	5.5	0	100	Fill	1	Medium	330	44941.83	1.032	694740.877
265 No Name Key	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Big Spanish Channel	Channel	N	0	0	100	Dredge	1	Medium	90	8778.455	0.202	671043.013
266 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Bogie Channel	Channel	N	0	0	100	Fill	1	Medium	90	3562.706	0.082	667952.875
267 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Bogie Channel	Spoil Area	N	0	0	100	Fill	1	Low	280	2260.977	0.052	667266.193
268 MARATHON	Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Hawk Channel	Shallow Nearshore	N	4	0	100	Fill	1	Medium	225	17834.76	0.409	695301.797
269 MARATHON	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Hawk Channel	Shallow Nearshore	N	1	0	100	Fill	1	Medium	225	8184.108	0.188	695065.868
270 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Bogie Channel	Spoil Area	N	0	0	100	Fill	1	Low	280	1323.711	0.03	667236.091
271 MARATHON	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Hawk Channel	Shallow Nearshore	N	0	0	100	Fill	1	Medium	100	2713.877	0.062	695518.362
272 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Bogie Channel	Spoil Area	N	0	0	100	Fill	1	Low	280	1487.534	0.034	667189.266
273 BIG PINE KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Doctors Arm	Spoil Area	N	6	0	100	Fill	1	Medium	180	9278.02	0.213	667802.141
274 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Bogie Channel	Spoil Area	N	0	0	100	Fill	1	Low	280	1461.093	0.034	667176.192
275 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Bogie Channel	Spoil Area	N	0	0	100	Fill	1	Low	280	1113.133	0.026	667165.085
276 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Bogie Channel	Spoil Area	N	0	0	100	Fill	1	Low	280	1501.032	0.034	667157.948
277 BIG PINE KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Bogie Channel	Spoil Area	N	9	5	95	Fill	1	Low	90	21877.04	0.502	667268.768
278 BIG PINE KEY	Physical Connection, BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.A	High	Pine Channel	Spoil Area	N	25	0	100	Dredge	1	Medium	270	84569.18	1.941	665206.200
279 LITTLE TORCH KEY	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Good, Poor	D.SMALL	II.A	III.B	High	Pine Channel	Spoil Area	N	0	0	100	Fill	1	High	270	1975.087	0.045	663007.200
280 LITTLE TORCH KEY	Pumping. Backfilling, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.A	III.B	High	Pine Channel	Spoil Area	N	3	0	100	Fill	0	High	NA	10172.41	0.234	663211.312
281 LITTLE TORCH KEY	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Fair, Poor	C.MEDIUM	II.A	III.B	High	Pine Channel	Spoil Area	N	1	0	100	Fill	1	High	10	6795.253	0.156	663120.826
282 BIG PINE KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	Med	Doctors Arm	Shallow Nearshore	N	3	50	50	Dredge	1	Medium	45	9380.74	0.215	667449.807
283 BIG PINE KEY	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	Low	Doctors Arm	Shallow Nearshore	N	0	100	0	Dredge	1	Medium	45	1626.509	0.037	667872.847
284 BIG PINE KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Pine Channel	Spoil Area	N	2	10	90	Dredge	1	Medium	0	11834.01	0.272	665146.068
285 LITTLE TORCH KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Pine Channel	Channel	N	2	0	100	Dredge	1	Medium	90	6383.666	0.147	663627.496
286 BIG PINE KEY	Physical Connection, BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.A	High	Bogie Channel	Channel	N	5	0	100	Dredge	1	Medium	45	20971.02	0.481	668162.379
287 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Bogie Channel	Channel	N	0	0	100	Dredge	1	Medium	90	5394.731	0.124	668405.461
288 BIG PINE KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Bogie Channel	Channel	N	0	0	100	Dredge	1	Medium	90	7441.751	0.171	668422.299
289 BIG PINE KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	Med	Pine Channel	Spoil Area	N	0	50	50	Dredge	1	Medium	270	11640.71	0.267	665820.899
290 BIG PINE KEY	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Bogie Channel	Channel	N	0	0	100	Dredge	1	Medium	90	2179	0.05	668753.112
291 BIG PINE KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Pine Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	270	8245.061	0.189	665837.945
292 LITTLE TORCH KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Pine Channel	Spoil Area	N	9	0	100	Fill	1	Medium	90	27847.67	0.639	663690.686
293 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Bogie Channel	Channel	N	0	0	100	Dredge	1	Medium	90	4488.283	0.103	668779.930

Set 9 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
264 MARATHON	80397.808	8.28	8.28	4.57	2209.744	542.604	0.540	205384	4.494											
265 No Name Key	80379.306	3.19	3.19	4.57	605.073	274.891	0.270	40118	0.878											RC-.25
266 BIG PINE KEY	80317.527	0.9	0.9	4.57	802.378	394.698	0.390	16282	0.356	weed gate										RM-8
267 BIG PINE KEY	80160.600	1.48	1.48	4.57	330.838	153.119	0.150	10333	0.226											RM-8
268 MARATHON	80123.238	4.97	4.97	4.57	1280.892	359.138	0.360	81505	1.783	culvert to #281.1										
269 MARATHON	80106.127	3.06	3.06	4.57	754.736	267.604	0.270	37401	0.818	Culvert to 281										
270 BIG PINE KEY	80079.113	1.3	1.3	4.57	223.234	101.557	0.100	6049	0.132											RM-8
271 MARATHON	80035.411	2.21	2.21	4.57	319.098	123.023	0.120	12402	0.271	Culvert to 281										
272 BIG PINE KEY	80001.274	1.4	1.4	4.57	240.553	106.531	0.110	6798	0.149											RM-8
273 BIG PINE KEY	79997.119	1.26	1.26	4.57	1984.999	738.924	0.740	42401	0.928											RM-8
274 BIG PINE KEY	79917.962	1.33	1.33	4.57	242.219	109.467	0.110	6677	0.146											RM-8
275 BIG PINE KEY	79833.841	1.03	1.03	4.57	234.175	108.287	0.110	5087	0.111											RM-8
276 BIG PINE KEY	79752.555	1.37	1.37	4.57	245.203	109.909	0.110	6860	0.150											RM-8
277 BIG PINE KEY	79717.703	3.86	3.86	4.57	3472.111	567.196	0.570	99978	2.188											
278 BIG PINE KEY	79391.118	6	6	4.57	11724.629	1410.414	1.410	386481	8.457											RM-8
279 LITTLE TORCH KEY	79166.956	1.3	1.3	4.57	322.856	151.627	0.150	9026	0.198											RH-12
280 LITTLE TORCH KEY	79117.395	2.68	2.68	4.57	1313.222	380.131	0.380	46488	1.017											RH-12
281 LITTLE TORCH KEY	79075.473	1.15	1.15	4.57	1227.732	592.230	0.590	31054	0.680			Y	Y	Y	N	Y	GOOD	#3	Bay Watch	RH-12
282 BIG PINE KEY	78767.057	1.9	1.9	4.57	1162.067	492.821	0.490	42870	0.938											RM-8
283 BIG PINE KEY	78533.540	1.5	1.5	4.57	245.247	108.499	0.110	7433	0.163											RM-8
284 BIG PINE KEY	78500.114	3.04	3.04	4.57	1352.729	389.074	0.390	54081	1.183			Y	Y	Y	N	Y	GOOD	#91,43	Bay Watch	RM-8
285 LITTLE TORCH KEY	78342.908	3.54	3.54	4.57	604.232	180.374	0.180	29173	0.638			Y	Y	Y	N	Y	GOOD	#2, 26	Bay Watch	RM-8
286 BIG PINE KEY	78004.471	2.75	2.75	4.57	2638.147	761.583	0.760	95838	2.097											RM-8
287 BIG PINE KEY	77920.281	1.63	1.63	4.57	687.181	329.976	0.330	24654	0.539											RM-8
288 BIG PINE KEY	77833.432	1.8	1.8	4.57	907.924	413.986	0.410	34009	0.744											RM-8
289 BIG PINE KEY	77768.019	1.76	1.76	4.57	1353.023	660.949	0.660	53198	1.164											RM-8
290 BIG PINE KEY	77694.650	1.17	1.17	4.57	394.808	186.277	0.190	9958	0.218			Y	Y	Y	N	Y	GOOD	#74	Bay Watch	RM-8
291 BIG PINE KEY	77675.561	1.33	1.33	4.57	1254.793	618.228	0.620	37680	0.825											RM-8
292 LITTLE TORCH KEY	77638.948	6.19	6.19	4.57	3792.157	449.974	0.450	127264	2.785			Y	Y	Y	N	Y	GOOD	#42	Bay Watch	RM-8
293 BIG PINE KEY	77633.472	1.87	1.87	4.57	513.918	239.690	0.240	20511	0.449											RM-8

Set 9 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
264 MARATHON	330							53	NULL	1876		c:\residential canal\linked\Large Canals.pdf
265 No Name Key	90							17	NULL	1996	1402	c:\residential canal\linked\Medium Canals.pdf
266 BIG PINE KEY	90							35	UNKNOWN SYSTEM, NULL	1963	1402	c:\residential canal\linked\Small Canals.pdf
267 BIG PINE KEY	280							15	UNKNOWN SYSTEM, NULL	1989	1402	c:\residential canal\linked\Small Canals.pdf
268 MARATHON	225							30	UNKNOWN SYSTEM, NULL	1954		c:\residential canal\linked\Medium Canals.pdf
269 MARATHON	225											c:\residential canal\linked\Medium Canals.pdf
270 BIG PINE KEY	280							8	UNKNOWN SYSTEM, NULL	1988	1402	c:\residential canal\linked\Small Canals.pdf
271 MARATHON	100							5	NULL	1978		c:\residential canal\linked\Small Canals.pdf
272 BIG PINE KEY	280							8	UNKNOWN SYSTEM, NULL	1972	1402	c:\residential canal\linked\Small Canals.pdf
273 BIG PINE KEY	180							43	CESSPOOL, SEPTIC TANK, UNKNOWN SYSTEM,	0	1402	c:\residential canal\linked\Medium Canals.pdf
274 BIG PINE KEY	280							10	UNKNOWN SYSTEM, NULL	0	1402	c:\residential canal\linked\Small Canals.pdf
275 BIG PINE KEY	280							9	SEPTIC TANK, NULL	0	1402	c:\residential canal\linked\Small Canals.pdf
276 BIG PINE KEY	280							8	SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	1402	c:\residential canal\linked\Small Canals.pdf
277 BIG PINE KEY	90							57	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1986		c:\residential canal\linked\Large Canals.pdf
278 BIG PINE KEY	270							407	ATU, CESSPOOL, SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	1239	c:\residential canal\linked\Large Canals.pdf
279 LITTLE TORCH KEY	270							10	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1973	868	c:\residential canal\linked\Small Canals.pdf
280 LITTLE TORCH KEY	NA							46	UNKNOWN SYSTEM, NULL	1987	868	c:\residential canal\linked\Medium Canals.pdf
281 LITTLE TORCH KEY	10							44	UNKNOWN SYSTEM, NULL	1979	868	c:\residential canal\linked\Medium Canals.pdf
282 BIG PINE KEY	45							22	UNKNOWN SYSTEM, NULL	0	1402	c:\residential canal\linked\Medium Canals.pdf
283 BIG PINE KEY	45							1	NULL	1962	462	c:\residential canal\linked\Small Canals.pdf
284 BIG PINE KEY	0							11	UNKNOWN SYSTEM, NULL	0	1239	c:\residential canal\linked\Medium Canals.pdf
285 LITTLE TORCH KEY	90							4	NULL	0	868	c:\residential canal\linked\Medium Canals.pdf
286 BIG PINE KEY	45							54	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1965	462	c:\residential canal\linked\Large Canals.pdf
287 BIG PINE KEY	90							13	UNKNOWN SYSTEM, SEPTIC TANK, NULL	1986	462	c:\residential canal\linked\Small Canals.pdf
288 BIG PINE KEY	90							23	UNKNOWN SYSTEM, NULL	1986	462	c:\residential canal\linked\Medium Canals.pdf
289 BIG PINE KEY	270							36	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	1402	c:\residential canal\linked\Medium Canals.pdf
290 BIG PINE KEY	90							13	UNKNOWN SYSTEM, NULL	1970	742	c:\residential canal\linked\Small Canals.pdf
291 BIG PINE KEY	270							47	SEPTIC OR ATU, ATU, UNKNOWN SYSTEM, SEPTIC TANK, NULL	1989	1402	c:\residential canal\linked\Medium Canals.pdf
292 LITTLE TORCH KEY	90							14	UNKNOWN SYSTEM, NO STRUCTURE, SEPTIC TANK,	1980	868	c:\residential canal\linked\Large Canals.pdf
293 BIG PINE KEY	90							11	UNKNOWN SYSTEM,	1965	742	c:\residential canal\linked\Small Canals.pdf

Set 9 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
294 BIG PINE KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Pine Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	270	8262.433	0.19	665850.198
295 BIG PINE KEY	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Bogie Channel	Channel	N	0	0	100	Dredge	1	Medium	90	1224.875	0.028	668877.982
296 BIG PINE KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Pine Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	270	6661.811	0.153	665882.501
297 BIG PINE KEY	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Bogie Channel	Channel	N	0	0	100	Dredge	1	Medium	90	2693.27	0.062	668914.438
298 BIG PINE KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Pine Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	270	6515.623	0.15	665911.607
299 BIG PINE KEY	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Bogie Channel	Channel	N	0	0	100	Dredge	1	Medium	90	1878.048	0.043	668990.701
300 BIG PINE KEY	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Bogie Channel	Channel	N	0	0	100	Dredge	1	Medium	90	2401.64	0.055	669036.794
301 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Pine Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	270	5652.427	0.13	665941.538
302 BIG PINE KEY	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Pine Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	270	3669.642	0.084	665970.500
303 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	Med	Pine Channel	Spoil Area	N	0	50	50	Dredge	1	Medium	270	5566.67	0.128	665999.471
304 SUGARLOAF KEY	Backfilling, Reduction in Seaweed Loading, BMPs, AWWT/SWM	Good	D.SMALL	II.A	III.A	High	Bow Channel	Channel	N	0	0	100	Dredge	1	High	0	680.419	0.016	649560.116
305 SUGARLOAF KEY	Circulation Devices, Backfilling, Reduction in Seaweed Loading, BMPs, AWWT/SWM	Fair, Poor	D.SMALL	II.A	III.A	High	Bow Channel	Channel	N	0	0	100	Dredge	1	High	0	666.719	0.015	649630.936
306 SUGARLOAF KEY	Circulation Devices, Backfilling, Nutrient Removal, Reduction in Seaweed Loading, BMPs, AWWT/SWM	Fair, Poor	D.SMALL	II.A	III.A	High	Bow Channel	Channel	N	0	0	100	Dredge	1	High	0	1058.139	0.024	649708.038
307 SUGARLOAF KEY	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Fair, Poor	C.MEDIUM	II.A	III.A	High	Bow Channel	Channel	N	0	0	100	Dredge	1	High	0	7146.679	0.164	649384.781
308 SUGARLOAF KEY	Backfilling, Reduction in Seaweed Loading, BMPs, AWWT/SWM	Good, Poor	D.SMALL	II.A	III.A	High	Bow Channel	Channel	N	0	0	100	Dredge	1	High	0	897.657	0.021	649795.420
309 BIG PINE KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Pine Channel	Spoil Area	N	12	10	90	Fill	1	Medium	270	50117.93	1.151	666333.967
310 RAMROD KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	New Found Harbor	Plugged	N	1	0	100	Fill	0	Low	NA	4874.02	0.112	661969.912
311 RAMROD KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	New Found Harbor	Spoil Area	N	0	0	100	Fill	1	Low	0	3494.257	0.08	661877.960
312 CUDJOE KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Kemp Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	90	9003.347	0.207	655268.019
313 CUDJOE KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Kemp Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	90	11097.11	0.255	655277.772
314 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	Low	Cudjoe Bay	Plugged	N	0	70	30	Fill	0	Medium	NA	995.879	0.023	653402.368
315 322 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	Low	Bogie Channel	Channel	N	0	90	10	Fill	1	Medium	90	2261.576	0.052	669323.947
316 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	Low	Cudjoe Bay	Plugged	N	0	70	30	Fill	0	Medium	NA	1121.303	0.026	653471.265
317 LITTLE TORCH KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Pine Channel	Spoil Area	N	10	0	100	Fill	1	Medium	90	30777.97	0.707	664347.319
318 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	Med	Bow Channel	Channel	N	0	50	50	Dredge	1	Medium	90	4468.061	0.103	650555.872
319 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Pine Channel	Spoil Area	N	0	0	100	Fill	1	Medium	270	964.705	0.022	666050.424
320 SUMMERLAND KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Niles Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	90	4701.408	0.108	658779.005

Set 10 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
294 BIG PINE KEY	77587.006	1.45	1.45	4.57	1167.011	571.452	0.570	37759	0.826			Y	Y	Y	N	Y	GOOD	#75	Bay Watch	RM-8
295 BIG PINE KEY	77568.104	1.32	1.32	4.57	209.582	92.452	0.090	5598	0.122											RM-8
296 BIG PINE KEY	77500.121	1.22	1.22	4.57	1109.567	544.742	0.540	30444	0.666											RM-8
297 BIG PINE KEY	77490.584	1.99	1.99	4.57	307.509	135.592	0.140	12308	0.269											RM-8
298 BIG PINE KEY	77410.306	1.31	1.31	4.57	1016.574	498.263	0.500	29776	0.652											RM-8
299 BIG PINE KEY	77408.454	1.61	1.61	4.57	262.591	116.538	0.120	8583	0.188											RM-8
300 BIG PINE KEY	77348.114	1.69	1.69	4.57	313.284	142.188	0.140	10975	0.240											RM-8
301 BIG PINE KEY	77320.225	1.28	1.28	4.57	905.427	442.244	0.440	25832	0.565											RM-8
302 BIG PINE KEY	77236.682	0.94	0.94	4.57	793.816	388.811	0.390	16770	0.367											RM-8
303 BIG PINE KEY	77138.639	1.8	1.8	4.57	645.479	309.467	0.310	25440	0.557											MC
304 SUGARLOAF KEY	76947.867	0.88	0.88	4.57	167.358	77.749	0.080	3110	0.068											
305 SUGARLOAF KEY	76927.306	1.27	1.27	4.57	122.797	52.407	0.050	3047	0.067											RL-.5
306 SUGARLOAF KEY	76895.894	1.55	1.55	4.57	161.948	68.430	0.070	4836	0.106											
307 SUGARLOAF KEY	76883.330	1.35	1.35	4.57	1075.106	530.448	0.530	32660	0.715											RM-8
308 SUGARLOAF KEY	76825.075	0.91	0.91	4.57	208.651	98.233	0.100	4102	0.090											
309 BIG PINE KEY	76770.647	5.53	5.53	5.49	5005.100	906.788	0.910	275147	5.012		plug; only affects 3 eastern legs									RM-8
310 RAMROD KEY	76649.797	1.12	1.12	4.88	901.791	433.895	0.430	23785	0.487		depth per interviews with residents									RM-8
311 RAMROD KEY	76636.133	1.04	1.04	4.57	684.857	336.395	0.340	15969	0.349											RM-8
312 CUDJOE KEY	76455.485	1.77	1.77	4.57	1042.133	509.789	0.510	41145	0.900											RM-8
313 CUDJOE KEY	76355.998	2.12	2.12	4.57	1086.119	524.100	0.520	50714	1.110											RM-8
314 CUDJOE KEY	76277.383	1.27	1.27	4.57	179.261	78.687	0.080	4551	0.100		lots of mangroves; new homes going in									MC
315 322 BIG PINE KEY	76276.767			4.57	222.979		0.000	10335	0.226											
316 CUDJOE KEY	76263.084	1.34	1.34	4.57	190.241	83.794	0.080	5124	0.112		lots of mangroves; new homes going in									MC
317 LITTLE TORCH KEY	76195.391	4.09	4.09	4.57	3860.440	753.013	0.750	140655	3.078	culverts to 378		Y	Y	Y	N	Y	GOOD	#121	Bay Watch	RM-8
318 SUGARLOAF KEY	76077.473	0.71	0.71	4.57	1272.634	627.902	0.630	20419	0.447											
319 BIG PINE KEY	76075.921	0.93	0.93	4.57	226.171	104.206	0.100	4409	0.096											RC-.25
320 SUMMERLAND KEY	76053.216	1.86	1.86	4.57	540.555	252.996	0.250	21485	0.470											RM-8

Set 10 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
294 BIG PINE KEY	270							41	NULL	1989	1402	c:\residential canal\linked\Medium Canals.pdf
295 BIG PINE KEY	90							4	UNKNOWN SYSTEM, SEPTIC TANK,	1965	742	c:\residential canal\linked\Small Canals.pdf
296 BIG PINE KEY	270							44	UNKNOWN SYSTEM, SEPTIC TANK, NULL	1983	1402	c:\residential canal\linked\Medium Canals.pdf
297 BIG PINE KEY	90							7	UNKNOWN SYSTEM,	1978	742	c:\residential canal\linked\Small Canals.pdf
298 BIG PINE KEY	270							31	SEPTIC OR ATU, ATU, UNKNOWN SYSTEM, SEPTIC TANK,	0	1402	c:\residential canal\linked\Medium Canals.pdf
299 BIG PINE KEY	90							10	ATU, UNKNOWN SYSTEM, NULL	1969	742	c:\residential canal\linked\Small Canals.pdf
300 BIG PINE KEY	90							9	ATU, UNKNOWN SYSTEM, NULL	1982	742	c:\residential canal\linked\Small Canals.pdf
301 BIG PINE KEY	270							35	UNKNOWN SYSTEM, ATU, SEPTIC TANK, NULL	0	1402	c:\residential canal\linked\Small Canals.pdf
302 BIG PINE KEY	270							33	CESSPOOL, UNKNOWN SYSTEM, NULL	0	1402	c:\residential canal\linked\Small Canals.pdf
303 BIG PINE KEY	270							16	UNKNOWN SYSTEM, NULL	0	1402	c:\residential canal\linked\Small Canals.pdf
304 SUGARLOAF KEY	0							3	UNKNOWN SYSTEM,	0	558	c:\residential canal\linked\Small Canals.pdf
305 SUGARLOAF KEY	0							3	UNKNOWN SYSTEM, NULL	1959	558	c:\residential canal\linked\Small Canals.pdf
306 SUGARLOAF KEY	0							0	NULL	0	558	c:\residential canal\linked\Small Canals.pdf
307 SUGARLOAF KEY	0							24	NULL	1986	558	c:\residential canal\linked\Medium Canals.pdf
308 SUGARLOAF KEY	0							1	UNKNOWN SYSTEM,	0	558	c:\residential canal\linked\Small Canals.pdf
309 BIG PINE KEY	270							128	ATU, SEPTIC TANK, UNKNOWN SYSTEM,	1987	768	c:\residential canal\linked\Large Canals.pdf
310 RAMROD KEY	NA							33	SEPTIC TANK, ATU, NULL	0	531	c:\residential canal\linked\Small Canals.pdf
311 RAMROD KEY	0							28	SEPTIC TANK, NULL	1986	531	c:\residential canal\linked\Small Canals.pdf
312 CUDJOE KEY	90							35	SEPTIC TANK, NULL	1986	1796	c:\residential canal\linked\Medium Canals.pdf
313 CUDJOE KEY	90							35	UNKNOWN SYSTEM, SEPTIC TANK, NULL	1979	1796	c:\residential canal\linked\Medium Canals.pdf
314 CUDJOE KEY	NA							2	NULL	0	1796	c:\residential canal\linked\Small Canals.pdf
315 322 BIG PINE KEY	90											c:\residential canal\linked\Small Canals.pdf
316 CUDJOE KEY	NA							1	NULL	0	1796	c:\residential canal\linked\Small Canals.pdf
317 LITTLE TORCH KEY	90							124	SEPTIC TANK, ATU, UNKNOWN SYSTEM, NULL	0	868	c:\residential canal\linked\Large Canals.pdf
318 SUGARLOAF KEY	90							1	NULL	0	558	c:\residential canal\linked\Small Canals.pdf
319 BIG PINE KEY	270							8	UNKNOWN SYSTEM,	0	768	c:\residential canal\linked\Small Canals.pdf
320 SUMMERLAND KEY	90							15	UNKNOWN SYSTEM, NULL	1965	726	c:\residential canal\linked\Small Canals.pdf

Set 10 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
321 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Pine Channel	Spoil Area	N	0	0	100	Fill	1	Medium	270	891.819	0.02	666064.141
322 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	0	0	100	Fill	1	Medium	90	4560.444	0.105	655528.765
323 SUMMERLAND KEY	Circulation Devices, Nutrient Removal, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.A	High	Niles Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	90	11709.09	0.269	659041.308
324 CUDJOE KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Cudjo Bay	Spoil Area	N	0	0	100	Fill	1	Medium	180	8537.447	0.196	652564.775
325 SUGARLOAF KEY	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Bow Channel	Channel	N	0	10	90	Dredge	1	Medium	90	3402.746	0.078	650670.075
326 CUDJOE KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	9	0	100	Fill	1	Medium	180	26315.33	0.604	654688.349
327 BIG PINE KEY	Circulation Devices, BMPs, AWWT/SWM	Fair	D.SMALL	II.B	III.B	High	Pine Channel	Spoil Area	N	0	0	100	Fill	1	Medium	270	890.792	0.02	666033.694
328 SUMMERLAND KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Summerland Key Bigh	Spoil Area	N	1	0	100	Fill	1	Medium	180	3487.739	0.08	657098.404
329 CUDJOE KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Bow Channel	Spoil Area	N	8	0	100	Fill	1	Medium	200	34875.25	0.801	652023.956
330 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	0	0	100	Fill	1	Medium	90	3306.118	0.076	655526.723
331 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	0	0	100	Fill	1	Medium	90	4451.426	0.102	655531.619
332 CUDJOE KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Bow Channel	Spoil Area	N	0	0	100	Fill	1	Medium	270	7185.621	0.165	652041.893
333 SUMMERLAND KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	Low	Niles Channel	Spoil Area	N	2	100	0	Dredge	1	Medium	70	5425.698	0.125	659129.795
334 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	0	0	100	Fill	1	Medium	90	4301.648	0.099	655543.857
335 CUDJOE KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	5	0	100	Fill	1	Medium	270	20059.35	0.46	655201.997
336 CUDJOE KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Bow Channel	Spoil Area	N	9.5	0	100	Fill	1	Medium	225	44725.6	1.027	652470.436
337 CUDJOE KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Bow Channel	Spoil Area	N	0	0	100	Fill	1	Medium	270	7055.065	0.162	652068.065
338 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	0	0	100	Fill	1	Medium	90	3529.122	0.081	655541.817
339 LITTLE TORCH KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	Pine Channel	Spoil Area	N	7	0	100	Fill	1	Medium	90	29646.15	0.681	664271.669
340 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Bow Channel	Spoil Area	N	0	0	100	Fill	1	Medium	270	5704.527	0.131	652098.245
341 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	0	0	100	Fill	1	Medium	90	3740.476	0.086	655545.897
342 BIG PINE KEY	Circulation Devices, BMPs, AWWT/SWM	Fair	D.SMALL	II.B	III.B	High	Pine Channel	Spoil Area	N	0	0	100	Fill	1	Medium	270	471.813	0.011	665941.490
343 CUDJOE KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Kemp Channel	Spoil Area	N	1	0	100	Fill	1	Medium	90	6395.803	0.147	655544.961
344 CUDJOE KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Bow Channel	Spoil Area	N	2	0	100	Fill	1	Medium	270	6418.803	0.147	652131.673
345 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	270	1950.12	0.045	655300.721
346 BIG PINE KEY	Circulation Devices, Stripper, BMPs, AWWT/SWM	Fair	D.SMALL	II.B	III.B	High	Pine Channel	Spoil Area	N	0	0	100	Fill	1	Medium	315	1280.615	0.029	665922.813
347 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	1	0	100	Fill	1	Medium	90	2761.523	0.063	655649.410
348 BIG PINE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Pine Channel	Spoil Area	N	0	0	100	Fill	1	Medium	315	2223.329	0.051	665867.960
349 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	270	1671.199	0.038	655327.645
350 RAMROD KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	High	New Found Harbor	Spoil Area	N	18	0	100	Fill	1	Medium	90	65218.43	1.497	662316.838
351 SUMMERLAND KEY	BMPs, AWWT/SWM	Poor	A.JUMBO	II.B	III.B	High	Summerland Key Bigh	Spoil Area	N	11	0	100	Fill	7	Medium	180,315, 270,340 340,000, 000	103229.9	2.37	658595.709
352 CUDJOE KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Kemp Channel	Spoil Area	N	3	0	100	Fill	1	Medium	90	7853.351	0.18	655588.731
353 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	270	1401.264	0.032	655344.779

Set 11 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
321 BIG PINE KEY	76017.393	0.72	0.72	4.57	259.679	123.535	0.120	4076	0.089											RM-8
322 CUDJOE KEY	76008.770	1.92	1.92	4.57	511.404	237.976	0.240	20841	0.456											RM-8
323 SUMMERLAND KEY	75988.550	2.42	2.42	4.57	1063.081	482.993	0.480	53511	1.171			Y	Y	Y	N	Y	GOOD	#135,128	Bay Watch	
324 CUDJOE KEY	75988.364	1.76	1.76	4.57	987.999	484.456	0.480	39016	0.854			Y	Y	Y	N	Y	GOOD	#71,92	Bay Watch	RM-8
325 SUGARLOAF KEY	75971.815	0.88	0.88	4.57	788.221	386.082	0.390	15551	0.340											
326 CUDJOE KEY	75960.306	2.42	2.42	4.57	4070.748	1086.863	1.090	120261	2.632											RM-8
327 BIG PINE KEY	75958.188	1.2	1.2	4.57	168.668	74.161	0.070	4071	0.089											
328 SUMMERLAND KEY	75936.027	1.76	1.76	4.57	495.953	198.300	0.200	15939	0.349											RM-8
329 CUDJOE KEY	75930.974	5.27	5.27	4.57	3298.370	661.711	0.660	159380	3.488	culvert to 458										RM-8
330 CUDJOE KEY	75915.024	1.38	1.38	4.57	505.257	240.185	0.240	15109	0.331											RM-8
331 CUDJOE KEY	75824.460	1.76	1.76	4.57	532.483	253.402	0.250	20343	0.445			Y	Y	Y	N	Y	GOOD	#21,46	Bay Watch	RM-8
332 CUDJOE KEY	75739.679	1.64	1.64	4.57	900.519	438.529	0.440	32838	0.719	culvert to 458										RM-8
333 SUMMERLAND KEY	75735.479	3.01	3.01	3.66	506.908	180.388	0.180	19858	0.543											
334 CUDJOE KEY	75734.711	1.8	1.8	4.57	504.828	238.693	0.240	19659	0.430											RM-8
335 CUDJOE KEY	75682.086	2.33	2.33	4.57	3630.060	859.286	0.860	91671	2.006											RM-8
336 CUDJOE KEY	75676.055	3.64	3.64	4.57	5282.804	1228.112	1.230	204396	4.473	culverts to canals to west		Y	Y	Y	N	Y	GOOD	#93, 94	Bay Watch	RM-8
337 CUDJOE KEY	75650.148	1.82	1.82	4.57	803.718	388.464	0.390	32242	0.706	culvert to 458										RM-8
338 CUDJOE KEY	75641.699	1.54	1.54	4.57	486.152	229.593	0.230	16128	0.353											RM-8
339 LITTLE TORCH KEY	75595.309	3.75	3.75	4.57	3652.974	790.514	0.790	135483	2.965	culverts to 377										RM-8
340 CUDJOE KEY	75555.696	1.61	1.61	4.57	735.459	353.963	0.350	26070	0.570	culvert to 458		Y	Y	Y	N	Y	GOOD	#72	Bay Watch	RM-8
341 CUDJOE KEY	75549.095	1.61	1.61	4.57	501.921	231.971	0.230	17094	0.374											RM-8
342 BIG PINE KEY	75541.042	1.11	1.11	4.57	103.273	42.354	0.040	2156	0.047											RC-.25
343 CUDJOE KEY	75447.925	3.1	3.1	4.57	632.908	206.496	0.210	29229	0.640											RH-12
344 CUDJOE KEY	75425.057	1.89	1.89	4.57	987.965	339.130	0.340	29334	0.642	culvert to 458										RM-8
345 CUDJOE KEY	75415.697	0.92	0.92	4.57	466.882	211.881	0.210	8912	0.195											RM-8
346 BIG PINE KEY	75402.690	2.76	2.76	4.57	216.960	46.366	0.050	5852	0.128											
347 CUDJOE KEY	75356.136	1.79	1.79	4.57	380.295	154.124	0.150	12620	0.276											RH-12
348 BIG PINE KEY	75340.963			4.57	255.711		0.000	10161	0.222											
349 CUDJOE KEY	75329.620	1.02	1.02	4.57	337.622	163.472	0.160	7637	0.167											RM-8
350 RAMROD KEY	75303.737	3.56	3.56	1.98	10791.892	1832.282	1.830	129132	6.522	culverts - one existing on northermost canal; one proposed for one of the middle canals; existing culvert may be partially		Y	Y	Y	N	Y	GOOD	#51,84	Bay Watch	RM-8
351 SUMMERLAND KEY	75273.703	3.98	3.98	4.57	12158.956	2595.532	2.600	471761	10.323											RM-8
352 CUDJOE KEY	75272.507	2.28	2.28	4.57	871.873	343.778	0.340	35890	0.785											RH-12
353 CUDJOE KEY	75241.503	1.11	1.11	4.57	271.464	125.862	0.130	6404	0.140											RM-8

Set 11 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
321 BIG PINE KEY	270							5	UNKNOWN SYSTEM, NULL	0	768	c:\residential canal\linked\Small Canals.pdf
322 CUDJOE KEY	90							18	ATU, NULL	1986	1796	c:\residential canal\linked\Small Canals.pdf
323 SUMMERLAND KEY	90							23	SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	726	c:\residential canal\linked\Medium Canals.pdf
324 CUDJOE KEY	180							39	UNKNOWN SYSTEM, SEPTIC OR ATU, SEPTIC TANK, NULL	1976	1796	c:\residential canal\linked\Medium Canals.pdf
325 SUGARLOAF KEY	90							5	UNKNOWN SYSTEM, NULL	0	558	c:\residential canal\linked\Small Canals.pdf
326 CUDJOE KEY	180							109	UNKNOWN SYSTEM, SEPTIC TANK, ATU, NULL	1990	1796	c:\residential canal\linked\Large Canals.pdf
327 BIG PINE KEY	270							6	ATU, NULL	1971	768	c:\residential canal\linked\Small Canals.pdf
328 SUMMERLAND KEY	180							6	UNKNOWN SYSTEM, ATU, NULL	0	726	c:\residential canal\linked\Small Canals.pdf
329 CUDJOE KEY	200							47	ATU, SEPTIC TANK, NULL	0	1796	c:\residential canal\linked\Large Canals.pdf
330 CUDJOE KEY	90							19	ATU, UNKNOWN SYSTEM, NULL	0	1796	c:\residential canal\linked\Small Canals.pdf
331 CUDJOE KEY	90							19	ATU, SEPTIC TANK, NULL	1986	1796	c:\residential canal\linked\Small Canals.pdf
332 CUDJOE KEY	270							14	SEPTIC TANK, NULL	1987	1796	c:\residential canal\linked\Medium Canals.pdf
333 SUMMERLAND KEY	70											c:\residential canal\linked\Small Canals.pdf
334 CUDJOE KEY	90							9	UNKNOWN SYSTEM, NULL	1983	1796	c:\residential canal\linked\Small Canals.pdf
335 CUDJOE KEY	270							81	UNKNOWN SYSTEM, SEPTIC TANK, ATU, NULL	1985	1796	c:\residential canal\linked\Large Canals.pdf
336 CUDJOE KEY	225							126	ATU, CESSPOOL, SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	1796	c:\residential canal\linked\Large Canals.pdf
337 CUDJOE KEY	270							15	SEPTIC TANK, NULL	1988	1796	c:\residential canal\linked\Medium Canals.pdf
338 CUDJOE KEY	90							7	NULL	0	1796	c:\residential canal\linked\Small Canals.pdf
339 LITTLE TORCH KEY	90							161	SEPTIC TANK, SEPTIC OR ATU, ATU, UNKNOWN SYSTEM, NULL	0	868	c:\residential canal\linked\Large Canals.pdf
340 CUDJOE KEY	270							13	UNKNOWN SYSTEM,	0	1796	c:\residential canal\linked\Small Canals.pdf
341 CUDJOE KEY	90							9	NULL	1976	1796	c:\residential canal\linked\Small Canals.pdf
342 BIG PINE KEY	270							3	UNKNOWN SYSTEM, NULL	0	768	c:\residential canal\linked\Small Canals.pdf
343 CUDJOE KEY	90							28	FDEP SECOND,	0	1796	c:\residential canal\linked\Medium Canals.pdf
344 CUDJOE KEY								14	SEPTIC TANK, NULL	1977	1796	c:\residential canal\linked\Medium Canals.pdf
345 CUDJOE KEY	270							11	ATU, NULL	1980	1796	c:\residential canal\linked\Small Canals.pdf
346 BIG PINE KEY	315							4	SEPTIC TANK, UNKNOWN SYSTEM,	1992	768	c:\residential canal\linked\Small Canals.pdf
347 CUDJOE KEY	90							18	FDEP SECOND,	0	1796	c:\residential canal\linked\Small Canals.pdf
348 BIG PINE KEY	315											c:\residential canal\linked\Small Canals.pdf
349 CUDJOE KEY	270							8	NULL	1978	1796	c:\residential canal\linked\Small Canals.pdf
350 RAMROD KEY	90							403	CESSPOOL, SEPTIC TANK, UNKNOWN SYSTEM, SEPTIC OR ATU, FDEP SECOND,	1996	531	c:\residential canal\linked\Large Canals.pdf
351 SUMMERLAND KEY	180	315	270	340	340	340	270	8	SEPTIC OR ATU, NULL	1978	726	c:\residential canal\linked\Jumbo Canals.pdf
352 CUDJOE KEY	90							43	FDEP SECOND,	1980	1796	c:\residential canal\linked\Medium Canals.pdf
353 CUDJOE KEY	270							6	NULL	0	1796	c:\residential canal\linked\Small Canals.pdf

Set 11 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
354 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	270	1181.921	0.027	655362.321
355 CUDJOE KEY	Med Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Kemp Channel	Spoil Area	N	2	0	100	Fill	1	Medium	90	15325.99	0.352	655641.332
356 SUMMERLAND KEY	Circulation Devices, Backfilling, Nutrient Removal, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Niles Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	70	3437.952	0.079	659334.619
357 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	270	1191.907	0.027	655365.176
358 SUMMERLAND KEY	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Niles Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	80	1479.253	0.034	659366.997
359 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	270	1749.084	0.04	655356.202
360 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	0	0	100	Fill	1	Medium	135	3222.635	0.074	655600.154
361 SUMMERLAND KEY	Backfilling, BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Niles Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	100	1276.665	0.029	659366.585
362 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	270	1288.098	0.03	655353.346
363 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	2	0	100	Fill	1	Medium	135	4967.609	0.114	655595.259
364 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	270	2232.037	0.051	655340.292
365 SUMMERLAND KEY	Circulation Devices, Backfilling, Nutrient Removal, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	Med	Niles Channel	Spoil Area	N	0	50	50	Dredge	1	Medium	135	1939.568	0.045	659326.890
366 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	0	0	100	Fill	1	Medium	135	3981.831	0.091	655573.229
367 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	270	2981.201	0.068	655311.327
368 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	1	0	100	Fill	1	Medium	135	3654.969	0.084	655514.764
369 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	270	3022.204	0.069	655308.472
370 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	0	0	100	Fill	1	Medium	135	2306.634	0.053	655557.793
371 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	320	1497.122	0.034	655168.954
372 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	320	1540.725	0.035	655095.115
373 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	0	0	100	Fill	1	Medium	180	2451.38	0.056	655383.534
374 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	320	1330.702	0.031	655015.158
375 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	0	0	100	Fill	1	Medium	180	2835.147	0.065	655298.273
376 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	320	2450.381	0.056	654932.752
377 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Cudjoe Bay	Spoil Area	N	0	0	100	Fill	1	Medium	320	2070.942	0.048	654854.019
378 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	0	0	100	Fill	1	Medium	180	3694.877	0.085	655213.828
379 SUMMERLAND KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Summerland Key Bigh	Spoil Area	N	0	0	100	Fill	1	Medium	225	2665.783	0.061	658489.182
380 CUDJOE KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Kemp Channel	Spoil Area	N	0	0	100	Fill	1	Medium	180	2935.665	0.067	654950.702
381 SUMMERLAND KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Summerland Key Bigh	Spoil Area	N	0	0	100	Fill	1	Medium	225	4864.054	0.112	658535.708
382 SUMMERLAND	Circulation Devices, Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Niles Channel	Spoil Area	N	0	0	100	Dredge	1	Medium	135	475.106	0.011	658647.296
383 SUMMERLAND	Backfilling, BMPs, AWWT/SWM	Fair, Good	D.SMALL	II.B	III.A	High	Niles Channel	Spoil Area	N	1	0	100	Dredge	1	Medium	135	3100.913	0.071	658580.445
384 SUGARLOAF KEY	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	5	0	100	Fill	1	Low	80	23634.44	0.543	646441.913
385 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	45	2601.639	0.06	646689.905
386 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	45	1585.472	0.036	646781.553
387 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	45	2649.262	0.061	646859.788
388 SUGARLOAF KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	2	0	100	Fill	1	Low	135	15720.77	0.361	646051.904
389 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	45	2219.371	0.051	646908.262
390 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	1	0	100	Fill	1	Low	225	4367.609	0.1	646290.274
391 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	45	2048.242	0.047	646969.361

Set 12 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
354 CUDJOE KEY	75157.466	1.19	1.19	4.57	218.750	99.060	0.100	5401	0.118											RM-8
355 CUDJOE KEY	75106.065	4.69	4.69	4.57	1016.818	326.804	0.330	70040	1.533											RH-12
356 SUMMERLAND KEY	75074.767	5.35	5.35	4.57	317.650	64.245	0.060	15711	0.344											RM-8
357 CUDJOE KEY	75063.638	1.25	1.25	4.57	213.054	95.540	0.100	5447	0.119											RM-8
358 SUMMERLAND KEY	74977.903	1.74	1.74	4.57	412.857	85.255	0.090	6760	0.148											
359 CUDJOE KEY	74977.561	1.52	1.52	4.57	253.670	114.795	0.110	7993	0.175											RM-8
360 CUDJOE KEY	74914.330	1.84	1.84	4.57	394.007	174.716	0.170	14727	0.322											RH-12
361 SUMMERLAND KEY	74904.397	1.3	1.3	4.57	216.146	98.020	0.100	5834	0.128											RM-8
362 CUDJOE KEY	74887.405	1.01	1.01	4.57	271.762	126.908	0.130	5887	0.129											RM-8
363 CUDJOE KEY	74833.148	2.81	2.81	4.57	549.329	176.515	0.180	22702	0.497											RH-12
364 CUDJOE KEY	74798.881	1.42	1.42	4.57	343.655	156.773	0.160	10200	0.223											RM-8
365 SUMMERLAND KEY	74795.446	2.72	2.72	4.57	246.568	71.275	0.070	8864	0.194											RM-8
366 CUDJOE KEY	74714.436	2.1	2.1	4.57	452.595	189.867	0.190	18197	0.398											RH-12
367 CUDJOE KEY	74705.461	1.47	1.47	4.57	454.241	202.137	0.200	13624	0.298											RM-8
368 CUDJOE KEY	74627.543	1.9	1.9	4.57	474.283	192.499	0.190	16703	0.365											RH-12
369 CUDJOE KEY	74622.239	1.34	1.34	4.57	472.825	225.761	0.230	13811	0.302											RM-8
370 CUDJOE KEY	74529.635	1.98	1.98	4.57	305.451	116.386	0.120	10541	0.231											RH-12
371 CUDJOE KEY	74494.552	1.09	1.09	4.57	285.440	137.267	0.140	6842	0.150											RM-8
372 CUDJOE KEY	74443.151	1.22	1.22	4.57	270.503	126.002	0.130	7041	0.154											
373 CUDJOE KEY	74440.703	1.47	1.47	4.57	354.853	167.108	0.170	11203	0.245											RM-8
374 CUDJOE KEY	74404.804	0.95	0.95	4.57	295.889	140.365	0.140	6081	0.133											
375 CUDJOE KEY	74370.944	1.33	1.33	4.57	439.402	213.920	0.210	12957	0.284											RM-8
376 CUDJOE KEY	74366.457	1.57	1.57	4.57	339.392	155.940	0.160	11198	0.245											
377 CUDJOE KEY	74332.597	1.15	1.15	4.57	378.319	179.664	0.180	9464	0.207											RM-8
378 CUDJOE KEY	74305.265	1.5	1.5	4.57	505.998	245.671	0.250	16886	0.369											RM-8
379 SUMMERLAND KEY	74172.813	1.91	1.91	4.57	297.306	139.655	0.140	12183	0.267											RM-8
380 CUDJOE KEY	74152.284	1.43	1.43	4.57	428.561	205.838	0.210	13416	0.294											RM-8
381 SUMMERLAND KEY	74123.535	1.68	1.68	4.57	609.123	289.415	0.290	22229	0.486											RM-8
382 SUMMERLAND	74031.801	0.91	0.91	4.57	125.295	52.090	0.050	2171	0.048											
383 SUMMERLAND	73993.325	2.29	2.29	4.57	321.425	135.148	0.140	14171	0.310											
384 SUGARLOAF KEY	73985.062	4.17	4.17	4.57	1864.349	566.363	0.570	108009	2.363											RL-.5
385 SUGARLOAF KEY	73961.455	2.08	2.08	4.57	289.913	124.796	0.120	11889	0.260											RM-8
386 SUGARLOAF KEY	73903.134	1.49	1.49	4.57	231.413	106.103	0.110	7246	0.159											RM-8
387 SUGARLOAF KEY	73840.690	2.96	2.96	4.57	267.790	89.422	0.090	12107	0.265											RM-8
388 SUGARLOAF KEY	73799.649	3.06	3.06	4.57	1309.537	513.365	0.510	71844	1.572											RM-8
389 SUGARLOAF KEY	73763.233	1.64	1.64	4.57	294.360	135.032	0.140	10143	0.222											RM-8
390 SUGARLOAF KEY	73717.062	2.1	2.1	4.57	459.634	208.225	0.210	19960	0.437											RM-8
391 SUGARLOAF KEY	73701.093	1.74	1.74	4.57	259.159	117.859	0.120	9360	0.205											RM-8

Set 12 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
354 CUDJOE KEY	270							4	UNKNOWN SYSTEM, NULL	0	1796	c:\residential canal\linked\Small Canals.pdf
355 CUDJOE KEY	90							42	FDEP SECOND,	1990	1796	c:\residential canal\linked\Medium Canals.pdf
356 SUMMERLAND KEY	70							7	UNKNOWN SYSTEM, ATU,	0	726	c:\residential canal\linked\Small Canals.pdf
357 CUDJOE KEY	270							4	NULL	1981	1796	c:\residential canal\linked\Small Canals.pdf
358 SUMMERLAND KEY	80											c:\residential canal\linked\Small Canals.pdf
359 CUDJOE KEY	270							5	ATU, NULL	0	1796	c:\residential canal\linked\Small Canals.pdf
360 CUDJOE KEY	135							30	FDEP SECOND,	0	1796	c:\residential canal\linked\Small Canals.pdf
361 SUMMERLAND KEY	100							1	UNKNOWN SYSTEM,	1970	726	c:\residential canal\linked\Small Canals.pdf
362 CUDJOE KEY	270							5	UNKNOWN SYSTEM, NULL	1981	1796	c:\residential canal\linked\Small Canals.pdf
363 CUDJOE KEY	135							39	FDEP SECOND,	1993	1796	c:\residential canal\linked\Small Canals.pdf
364 CUDJOE KEY	270							6	NULL	1980	1796	c:\residential canal\linked\Small Canals.pdf
365 SUMMERLAND KEY	135							3	UNKNOWN SYSTEM,	0	726	c:\residential canal\linked\Small Canals.pdf
366 CUDJOE KEY	135							39	FDEP SECOND,	1980	1796	c:\residential canal\linked\Small Canals.pdf
367 CUDJOE KEY	270							9	NULL	1982	1796	c:\residential canal\linked\Small Canals.pdf
368 CUDJOE KEY	135							37	FDEP SECOND,	1997	1796	c:\residential canal\linked\Small Canals.pdf
369 CUDJOE KEY	270							11	ATU, NULL	0	1796	c:\residential canal\linked\Small Canals.pdf
370 CUDJOE KEY	135							24	FDEP SECOND,	1982	1796	c:\residential canal\linked\Small Canals.pdf
371 CUDJOE KEY	320							6	NULL	1993	1796	c:\residential canal\linked\Small Canals.pdf
372 CUDJOE KEY	320							7	NULL	0	1796	c:\residential canal\linked\Small Canals.pdf
373 CUDJOE KEY	180							7	NULL	1996	1796	c:\residential canal\linked\Small Canals.pdf
374 CUDJOE KEY	320							5	SEPTIC TANK, ATU, NULL	0	1796	c:\residential canal\linked\Small Canals.pdf
375 CUDJOE KEY	180							10	ATU, NULL	0	1796	c:\residential canal\linked\Small Canals.pdf
376 CUDJOE KEY	320							6	ATU, NULL	0	1796	c:\residential canal\linked\Small Canals.pdf
377 CUDJOE KEY	320							8	SEPTIC TANK, ATU, NULL	1989	1796	c:\residential canal\linked\Small Canals.pdf
378 CUDJOE KEY	180							14	ATU, NULL	0	1796	c:\residential canal\linked\Small Canals.pdf
379 SUMMERLAND KEY	225							13	ATU, UNKNOWN SYSTEM, NULL	1985	726	c:\residential canal\linked\Small Canals.pdf
380 CUDJOE KEY	180							10	SEPTIC OR ATU, NULL	0	1796	c:\residential canal\linked\Small Canals.pdf
381 SUMMERLAND KEY	225							30	UNKNOWN SYSTEM, NULL	0	726	c:\residential canal\linked\Small Canals.pdf
382 SUMMERLAND	135											c:\residential canal\linked\Small Canals.pdf
383 SUMMERLAND	135											c:\residential canal\linked\Small Canals.pdf
384 SUGARLOAF KEY	80							16	NULL	0	1279	c:\residential canal\linked\Large Canals.pdf
385 SUGARLOAF KEY	45							8	UNKNOWN SYSTEM, NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
386 SUGARLOAF KEY	45							7	SEPTIC TANK, NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
387 SUGARLOAF KEY	45							6	ATU, NULL	1991	1279	c:\residential canal\linked\Small Canals.pdf
388 SUGARLOAF KEY	135							7	SEPTIC TANK, NULL	1982	1279	c:\residential canal\linked\Medium Canals.pdf
389 SUGARLOAF KEY	45							5	SEPTIC TANK, NULL	1970	1279	c:\residential canal\linked\Small Canals.pdf
390 SUGARLOAF KEY	225							6	ATU, NULL	1988	1279	c:\residential canal\linked\Small Canals.pdf
391 SUGARLOAF KEY	45							5	NULL	1958	1279	c:\residential canal\linked\Small Canals.pdf

Set 12 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
392 SUGARLOAF KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	1	0	100	Fill	1	Low	225	9828.795	0.226	646547.226
393 SUGARLOAF KEY	Pumping, Nutrient Removal, BMPs, AWWT/SWM	Fair	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	1020.265	0.023	646393.439
394 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	45	1551.487	0.036	647031.848
395 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	5506.73	0.126	646651.719
396 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	165	2625.259	0.06	646065.382
397 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	45	1273.101	0.029	647088.086
398 SUGARLOAF KEY	Pumping, Nutrient Removal, BMPs, AWWT/SWM	Fair	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	165	1145.401	0.026	645912.032
399 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	4186.628	0.096	646744.755
400 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	45	2420.869	0.056	647137.034
401 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	5022.99	0.115	646828.418
402 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	235	2203.876	0.051	645840.265
403 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	4885.167	0.112	646906.180
404 SUGARLOAF KEY	Pumping, Nutrient Removal, BMPs, AWWT/SWM	Fair	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	235	1374.001	0.032	645914.769
405 SUGARLOAF KEY	Pumping, Nutrient Removal, BMPs, AWWT/SWM	Fair	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	235	998.18	0.023	645986.840
406 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	5421.889	0.124	646975.262
407 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	4390.055	0.101	647048.164
408 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	3785.561	0.087	647148.143
409 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	2	Low	45, 225	4688.676	0.108	647262.811
410 SUGARLOAF KEY	Pumping, Nutrient Removal, BMPs, AWWT/SWM	Fair	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	235	987.083	0.023	646126.345
411 SUGARLOAF KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	90	6025.888	0.138	646412.501
412 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	3364.005	0.077	647323.801
413 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	235	1988.963	0.046	646171.352
414 SUGARLOAF KEY	Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	2	0	100	Fill	1	Low	45	10026.75	0.23	647671.884
415 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	3219.631	0.074	647397.050
416 SUGARLOAF KEY	Pumping, Nutrient Removal, BMPs, AWWT/SWM	Fair	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	180	1123.577	0.026	646379.354
417 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	45	5323.798	0.122	647812.241
418 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	180	1407.107	0.032	646275.961
419 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	2458.228	0.056	647482.102
420 SUGARLOAF KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	1	0	100	Fill	1	Low	45	9579.528	0.22	647932.465
421 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	1655.369	0.038	647586.594
422 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	45	5869.137	0.135	647998.158
423 SUGARLOAF KEY	Pumping, Nutrient Removal, BMPs, AWWT/SWM	Fair	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	904.288	0.021	647782.553
424 SUGARLOAF KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Upper Sugarloaf Soun	Spoil Area	N	1	0	100	Fill	1	Low	45	10174.18	0.234	648059.364
425 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	3053.483	0.07	647833.556
426 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	Low	Upper Sugarloaf Soun	Spoil Area	N	0	100	0	Fill	0	Low	NA	3121.338	0.072	648407.923
427 SUGARLOAF KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	9712.696	0.223	647835.875
428 SUGARLOAF KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	6882.262	0.158	647939.040
429 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	225	4182.163	0.096	647999.897
430 SUGARLOAF KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	Med	Upper Sugarloaf Soun	Spoil Area	N	0	50	50	Fill	0	Low	NA	3712.872	0.085	648622.077

Set 13 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
392 SUGARLOAF KEY	73669.849	3.42	3.42	4.57	889.647	287.614	0.290	44918	0.983											RM-8
393 SUGARLOAF KEY	73634.787	1.43	1.43	4.57	162.276	71.246	0.070	4663	0.102											RM-8
394 SUGARLOAF KEY	73627.844	1.34	1.34	4.57	257.253	115.748	0.120	7090	0.155											
395 SUGARLOAF KEY	73613.264	2.07	2.07	4.57	566.565	265.993	0.270	25166	0.551											RM-8
396 SUGARLOAF KEY	73576.813	1.93	1.93	4.57	300.162	136.069	0.140	11997	0.263											RM-8
397 SUGARLOAF KEY	73557.026	1.5	1.5	4.57	199.764	84.750	0.080	5818	0.127											RM-8
398 SUGARLOAF KEY	73554.697	2.12	2.12	4.57	142.339	54.102	0.050	5234	0.115											
399 SUGARLOAF KEY	73548.694	1.87	1.87	4.57	474.095	223.406	0.220	19133	0.419											
400 SUGARLOAF KEY	73477.528	1.93	1.93	4.57	286.194	125.697	0.130	11063	0.242											RM-8
401 SUGARLOAF KEY	73467.808	2.23	2.23	4.57	489.438	225.625	0.230	22955	0.502											
402 SUGARLOAF KEY	73461.339	2.12	2.12	4.57	246.274	104.106	0.100	10072	0.220											RM-8
403 SUGARLOAF KEY	73382.409	2.17	2.17	4.57	492.219	225.357	0.230	22325	0.489											RM-8
404 SUGARLOAF KEY	73379.536	1.91	1.91	4.57	173.817	71.880	0.070	6279	0.137											RM-8
405 SUGARLOAF KEY	73299.254	1.73	1.73	4.57	138.480	57.612	0.060	4562	0.100											
406 SUGARLOAF KEY	73293.191	2.14	2.14	4.57	539.541	252.964	0.250	24778	0.542											RM-8
407 SUGARLOAF KEY	73211.611	1.83	1.83	4.57	507.610	240.397	0.240	20063	0.439											
408 SUGARLOAF KEY	73153.290	2.07	2.07	4.57	398.490	183.018	0.180	17300	0.379											RM-8
409 SUGARLOAF KEY	73102.964	1.62	1.62	4.57	608.519	289.364	0.290	21427	0.469											RM-8
410 SUGARLOAF KEY	73091.175	1.55	1.55	4.57	148.491	63.547	0.060	4511	0.099											RM-8
411 SUGARLOAF KEY	73050.122	2.18	2.18	4.57	591.121	276.873	0.280	27538	0.603											RM-8
412 SUGARLOAF KEY	73003.321	2.38	2.38	4.57	325.379	141.503	0.140	15374	0.336											RM-8
413 SUGARLOAF KEY	72988.695	1.9	1.9	4.57	244.105	104.934	0.100	9090	0.199											RM-8
414 SUGARLOAF KEY	72969.898	4.63	4.63	4.57	959.331	216.626	0.220	45822	1.003											RM-8
415 SUGARLOAF KEY	72916.881	2.14	2.14	4.57	338.938	150.617	0.150	14714	0.322											RM-8
416 SUGARLOAF KEY	72910.237	1.55	1.55	4.57	171.107	72.270	0.070	5135	0.112											
417 SUGARLOAF KEY	72906.119	2.05	2.05	4.57	552.038	260.277	0.260	24330	0.532											RM-8
418 SUGARLOAF KEY	72883.173	1.45	1.45	4.57	219.957	96.720	0.100	6430	0.141											RM-8
419 SUGARLOAF KEY	72845.715	2.05	2.05	4.57	267.210	120.036	0.120	11234	0.246											RM-8
420 SUGARLOAF KEY	72795.590	3.51	3.51	4.57	751.686	272.958	0.270	43778	0.958											RM-8
421 SUGARLOAF KEY	72790.518	1.9	1.9	4.57	201.376	87.162	0.090	7565	0.166											RM-8
422 SUGARLOAF KEY	72720.823	2.28	2.28	4.57	557.582	257.418	0.260	26822	0.587											
423 SUGARLOAF KEY	72593.895	1.67	1.67	4.57	135.557	54.122	0.050	4133	0.090											
424 SUGARLOAF KEY	72558.727	2.88	2.88	4.57	894.402	352.684	0.350	46496	1.017											
425 SUGARLOAF KEY	72487.831	2.13	2.13	4.57	315.654	143.048	0.140	13954	0.305											RM-8
426 SUGARLOAF KEY	72369.596	1.86	1.86	4.57	369.212	168.031	0.170	14265	0.312											RM-8
427 SUGARLOAF KEY	72327.286	2.49	2.49	4.57	821.747	390.847	0.390	44387	0.971											RM-8
428 SUGARLOAF KEY	72284.397	2.76	2.76	4.57	549.764	249.197	0.250	31452	0.688											RM-8
429 SUGARLOAF KEY	72183.550	2.03	2.03	4.57	449.358	205.748	0.210	19112	0.418											
430 SUGARLOAF KEY	72122.668	0.95	0.95	4.57	796.625	389.000	0.390	16968	0.371											RM-8

Set 13 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
392 SUGARLOAF KEY	225							19	UNKNOWN SYSTEM, SEPTIC TANK, SEPTIC OR ATU,	1990	1279	c:\residential canal\linked\Medium Canals.pdf
393 SUGARLOAF KEY	225							4	NULL	1980	1279	c:\residential canal\linked\Small Canals.pdf
394 SUGARLOAF KEY	45							6	UNKNOWN SYSTEM, NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
395 SUGARLOAF KEY	225							18	SEPTIC OR ATU, UNKNOWN SYSTEM, NULL	1990	1279	c:\residential canal\linked\Small Canals.pdf
396 SUGARLOAF KEY	165							8	SEPTIC TANK,	0	1279	c:\residential canal\linked\Small Canals.pdf
397 SUGARLOAF KEY	45							5	NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
398 SUGARLOAF KEY	165							3	NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
399 SUGARLOAF KEY	225							14	SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
400 SUGARLOAF KEY	45							6	UNKNOWN SYSTEM, CESSPOOL,	1963	1279	c:\residential canal\linked\Small Canals.pdf
401 SUGARLOAF KEY	225							15	ATU, SEPTIC TANK, NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
402 SUGARLOAF KEY	235							7	SEPTIC TANK, NULL	1975	1279	c:\residential canal\linked\Small Canals.pdf
403 SUGARLOAF KEY	225							16	SEPTIC OR ATU, UNKNOWN SYSTEM, NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
404 SUGARLOAF KEY	235							5	SEPTIC TANK, NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
405 SUGARLOAF KEY	235							3	SEPTIC OR ATU, NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
406 SUGARLOAF KEY	225							17	SEPTIC OR ATU, SEPTIC TANK, NULL	1983	1279	c:\residential canal\linked\Small Canals.pdf
407 SUGARLOAF KEY	225							16	SEPTIC OR ATU, SEPTIC TANK, NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
408 SUGARLOAF KEY	225							14	UNKNOWN SYSTEM, SEPTIC TANK, NULL	1968	1279	c:\residential canal\linked\Small Canals.pdf
409 SUGARLOAF KEY	45, 225							9	NULL	1994	1279	c:\residential canal\linked\Small Canals.pdf
410 SUGARLOAF KEY	235							4	SEPTIC TANK, NULL	1994	1279	c:\residential canal\linked\Small Canals.pdf
411 SUGARLOAF KEY	90							18	SEPTIC TANK, NULL	1990	1279	c:\residential canal\linked\Medium Canals.pdf
412 SUGARLOAF KEY	225							11	SEPTIC TANK, ATU, NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
413 SUGARLOAF KEY	235							7	NULL	1976	1279	c:\residential canal\linked\Small Canals.pdf
414 SUGARLOAF KEY	45							20	ATU, UNKNOWN SYSTEM, NULL	0	1279	c:\residential canal\linked\Medium Canals.pdf
415 SUGARLOAF KEY	225							10	SEPTIC TANK, NULL	1987	1279	c:\residential canal\linked\Small Canals.pdf
416 SUGARLOAF KEY	180							2	NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
417 SUGARLOAF KEY	45							10	UNKNOWN SYSTEM, NULL	1966	1279	c:\residential canal\linked\Small Canals.pdf
418 SUGARLOAF KEY	180							4	ATU, SEPTIC TANK, NULL	1985	1279	c:\residential canal\linked\Small Canals.pdf
419 SUGARLOAF KEY	225							8	SEPTIC TANK, NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
420 SUGARLOAF KEY	45							6	NULL	1956	1279	c:\residential canal\linked\Medium Canals.pdf
421 SUGARLOAF KEY	225							3	SEPTIC TANK, NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
422 SUGARLOAF KEY	45							7	NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
423 SUGARLOAF KEY	225							3	NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
424 SUGARLOAF KEY	45							15	UNKNOWN SYSTEM, NULL	0	1279	c:\residential canal\linked\Medium Canals.pdf
425 SUGARLOAF KEY	225							5	NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
426 SUGARLOAF KEY	NA							5	NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
427 SUGARLOAF KEY	225							23	SEPTIC TANK, ATU, UNKNOWN SYSTEM,	1990	1279	c:\residential canal\linked\Medium Canals.pdf
428 SUGARLOAF KEY	225							16	SEPTIC OR ATU, SEPTIC TANK, NULL	1991	1279	c:\residential canal\linked\Medium Canals.pdf
429 SUGARLOAF KEY	225							9	UNKNOWN SYSTEM, NULL	0	1279	c:\residential canal\linked\Small Canals.pdf
430 SUGARLOAF KEY	NA							1	NULL	0	1279	c:\residential canal\linked\Small Canals.pdf

Set 13 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
431 SUGARLOAF	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	Low	Upper Sugarloaf Soun	Spoil Area	N	1.5	95	5	Fill	1	Low	315	6397.073	0.147	649211.484
432 SADDLEBUNCH KEYS	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0.5	0	100	Fill	1	Low	270	6460.114	0.148	643616.897
433 SADDLEBUNCH KEYS	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	180	3804.835	0.087	643782.652
434 SADDLEBUNCH KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0.5	0	100	Fill	1	Low	200	5447.517	0.125	643606.941
435 SADDLEBUNCH KEYS	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Lower Sugarloaf Soun	Spoil Area	N	0	0	100	Fill	1	Low	180	11217.53	0.258	642761.016
436 BIG COPPITT KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similair Sound	Spoil Area	N	0	0	100	Fill	1	Medium	55	2090.493	0.048	637742.634
437 BIG COPPITT	Reduction in Seaweed Loading, BMPs, AWWT/SWM	Fair, Poor	C.MEDIUM	II.A	III.B	High	Halfmoon Key Bight	Spoil Area	N	3	0	100	Fill	1	High	0	12547.63	0.288	635883.836
438 BIG COPPITT KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similair Sound	Spoil Area	N	0	0	100	Fill	1	Medium	0	3643.765	0.084	637615.016
439 BIG COPPITT KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similair Sound	Spoil Area	N	0	0	100	Fill	1	Medium	0	3133.493	0.072	637524.461
440 BIG COPPITT KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similair Sound	Spoil Area	N	0	0	100	Fill	1	Medium	55	1265.355	0.029	637751.302
441 BIG COPPITT KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similair Sound	Spoil Area	N	0	0	100	Fill	1	Medium	0	4827.09	0.111	637432.244
442 BIG COPPITT	Circulation Devices, Stripper, BMPs, AWWT/SWM	Fair	D.SMALL	II.B	III.B	High	Similair Sound	Spoil Area	N	0	0	100	Fill	1	Medium	0	788.711	0.018	636919.828
443 BIG COPPITT KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similair Sound	Spoil Area	N	0	0	100	Fill	1	Medium	0	5289.402	0.121	637341.719
444 BIG COPPITT KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similair Sound	Spoil Area	N	0	0	100	Fill	1	Medium	0	5534.739	0.127	637253.450
445 BIG COPPITT KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Similair Sound	Spoil Area	N	0	0	100	Fill	1	Medium	0	7095.441	0.163	637054.409
446 BIG COPPITT KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Similair Sound	Spoil Area	N	0	0	100	Fill	1	Medium	0	7623.778	0.175	637151.011
447 BIG COPPITT KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similair Sound	Spoil Area	N	1	0	100	Fill	1	Medium	45	5312.665	0.122	637924.665
448 BIG COPPITT KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	Low	Similair Sound	Spoil Area	N	0	90	10	Fill	0	Medium	NA	9737.956	0.224	638050.728
449 BIG COPPITT KEY	Berm And Swale, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Rockland Channel	Spoil Area	N	0	0	100	Fill	1	Medium	250	17007.09	0.39	636252.899
450 ROCKLAND	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Rockland Channel	Spoil Area	N	0	0	100	Fill	1	Medium	0	9609.2	0.221	635762.120
451 BOCA CHICA KEY	Reduction in Seaweed Loading, Physical Connection, BMPs, AWWT/SWM	Poor	A.JUMBO	II.A	III.A	Low	Boca Chica Channel	Spoil Area	N	7.5	100	0	Dredge	1	High	280	156173.6	3.585	632051.671
452 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Geiger Key Sound	Spoil Area	N	0	0	100	Fill	1	Low	270	1041.803	0.024	637979.367
453 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Geiger Key Sound	Spoil Area	N	0	0	100	Fill	1	Low	270	2353.614	0.054	637906.111
454 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Geiger Key Sound	Spoil Area	N	0	0	100	Fill	1	Low	270	1729.867	0.04	637892.341
455 GEIGER KEY	Pumping, BMPs, AWWT/SWM	Fair	D.SMALL	II.C	III.B	High	Geiger Key Sound	Spoil Area	N	0	0	100	Fill	1	Low	270	854.922	0.02	637874.716
456 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similar Sound	Spoil Area	N	0	0	100	Fill	1	Medium	110	2125.917	0.049	637937.803
457 KEY HAVEN	BMPs, AWWT/SWM	Poor	B.LARGE	II.A	III.B	High	Boca Chica Channel	Spoil Area	N	6	0	100	Fill	1	High	80	24696.3	0.567	628688.010
458 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similar Sound	Spoil Area	N	0	0	100	Fill	1	Medium	110	1020.567	0.023	637957.335
459 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similar Sound	Spoil Area	N	0	0	100	Fill	1	Medium	110	827.618	0.019	637927.592
460 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Geiger Key Sound	Spoil Area	N	0	0	100	Fill	1	Low	30	2786.079	0.064	637792.876
461 KEY HAVEN	Seaweed Loading, BMPs, AWWT/SWM	Poor	B.LARGE	II.A	III.B	High	Boca Chica Channel	Spoil Area	N	2	0	100	Fill	1	High	30	69653.45	1.599	628852.928
462 GEIGER KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Geiger Key Sound	Spoil Area	N	2	0	100	Fill	1	Low	315	8695.959	0.2	637489.197
463 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Geiger Key Sound	Spoil Area	N	0	0	100	Fill	1	Low	30	4715.722	0.108	637577.835
464 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.C	III.B	High	Geiger Key Sound	Spoil Area	N	1	0	100	Fill	1	Low	30	4356.521	0.1	637667.065
465 GEIGER KEY	Circulation Devices, BMPs, AWWT/SWM	Fair	D.SMALL	II.B	III.B	High	Similar Sound	Spoil Area	N	0	0	100	Fill	1	Medium	30	504.76	0.012	638225.077
466 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similar Sound	Spoil Area	N	2	0	100	Fill	1	Medium	30	4843.423	0.111	637845.783
467 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similar Sound	Spoil Area	N	0	0	100	Fill	1	Medium	30	1449.915	0.033	638031.675
468 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similar Sound	Spoil Area	N	0	0	100	Fill	1	Medium	30	879.943	0.02	638123.328
469 KEY HAVEN	BMPs, AWWT/SWM	Poor	B.LARGE	II.A	III.B	High	Boca Chica Channel	Spoil Area	N	5	0	100	Fill	0	High	NA	24953.24	0.573	629151.525

Set 14 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
431 SUGARLOAF	71810.047	0.35	0.35	4.57	782.970	1840.930	1.840	29235	0.640											
432 SADDLEBUNCH KEYS	71682.576	1.69	1.69	4.57	864.168	382.706	0.380	29523	0.646	culvert to 523.1										RM-8
433 SADDLEBUNCH KEYS	71371.603	2.91	2.91	4.57	329.481	130.824	0.130	17388	0.380											RM-8
434 SADDLEBUNCH KEY	71305.344	2.13	2.13	4.57	865.337	255.799	0.260	24895	0.545	culvert to 523										RM-8
435 SADDLEBUNCH KEYS	71191.231	2.02	2.02	4.57	1145.116	556.644	0.560	51264	1.122											RM-8
436 BIG COPPITT KEY	68862.512	1.86	1.86	4.57	259.113	112.242	0.110	9554	0.209											RM-8
437 BIG COPPITT	68856.401	2.23	2.23	4.57	1909.893	563.438	0.560	57343	1.255											RH-12
438 BIG COPPITT KEY	68842.649	1.73	1.73	4.57	448.749	210.778	0.210	16652	0.364											RM-8
439 BIG COPPITT KEY	68825.748	1.46	1.46	4.57	492.056	214.539	0.210	14320	0.313											RM-8
440 BIG COPPITT KEY	68796.645	1.06	1.06	4.57	265.111	119.041	0.120	5783	0.127											MC
441 BIG COPPITT KEY	68786.549	1.67	1.67	4.57	608.701	289.094	0.290	22060	0.483											RM-8
442 BIG COPPITT	68784.726	1.68	1.68	4.57	127.689	46.850	0.050	3604	0.079											
443 BIG COPPITT KEY	68746.786	1.51	1.51	4.57	726.953	350.320	0.350	24173	0.529											RM-8
444 BIG COPPITT KEY	68717.175	1.41	1.41	4.57	814.208	393.237	0.390	25294	0.553											RM-8
445 BIG COPPITT KEY	68682.350	2	2	4.57	800.044	355.457	0.360	32426	0.710											RM-8
446 BIG COPPITT KEY	68679.424	2.24	2.24	4.57	900.376	339.752	0.340	34841	0.762											RM-8
447 BIG COPPITT KEY	68490.326	2.34	2.34	4.57	527.149	227.170	0.230	24279	0.531	culvert to #532										
448 BIG COPPITT KEY	68237.835	2.88	2.88	4.57	860.064	337.959	0.340	44502	0.974	culvert to #540										RC-.25
449 BIG COPPITT KEY	68091.835	4.48	4.48	4.57	850.625	379.484	0.380	77722	1.701											MC
450 ROCKLAND	68068.591	1.71	1.71	4.57	1199.688	561.364	0.560	43914	0.961											RC-.25
451 BOCA CHICA KEY	67858.200	15.62	15.62	4.57	6530.407	999.566	1.000	713713	15.617											MCF
452 GEIGER KEY	67557.599	1.03	1.03	4.57	220.585	101.113	0.100	4761	0.104											RL-.5
453 GEIGER KEY	67412.188	1.56	1.56	4.57	319.778	151.124	0.150	10756	0.235											RL-.5
454 GEIGER KEY	67324.060	1.49	1.49	4.57	254.502	115.715	0.120	7905	0.173											RL-.5
455 GEIGER KEY	67236.483	1.22	1.22	4.57	160.298	70.269	0.070	3907	0.085											RL-.5
456 GEIGER KEY	67211.147	1.71	1.71	4.57	287.564	124.316	0.120	9715	0.213											RL-.5
457 KEY HAVEN	67189.437	4.38	4.38	4.57	2376.739	564.114	0.560	112862	2.470		south shore is a breaker									RM-8
458 GEIGER KEY	67108.147	1.26	1.26	4.57	184.412	81.010	0.080	4664	0.102											RL-.5
459 GEIGER KEY	67022.773	0.86	0.86	4.57	207.432	96.771	0.100	3782	0.083											RL-.5
460 GEIGER KEY	67002.394	2.01	2.01	4.57	357.396	138.582	0.140	12732	0.279											RL-.5
461 KEY HAVEN	66951.354	11.24	11.24	4.57	1867.100	619.802	0.620	318316	6.965											RM-8
462 GEIGER KEY	66933.544	2.07	2.07	4.57	1201.270	419.103	0.420	39741	0.870											RL-.5
463 GEIGER KEY	66924.181	1.37	1.37	4.57	713.756	344.574	0.340	21551	0.472											RL-.5
464 GEIGER KEY	66908.207	1.36	1.36	4.57	657.605	320.193	0.320	19909	0.436											RL-.5
465 GEIGER KEY	66869.007	0.85	0.85	4.57	128.502	59.051	0.060	2307	0.050											
466 GEIGER KEY	66854.533	1.51	1.51	4.57	966.862	320.701	0.320	22134	0.484											RL-.5
467 GEIGER KEY	66849.348	0.94	0.94	4.57	323.878	154.186	0.150	6626	0.145											RL-.5
468 GEIGER KEY	66841.113	0.93	0.93	4.57	201.791	94.620	0.090	4021	0.088											RL-.5
469 KEY HAVEN	66673.413	3.64	3.64	4.57	2025.253	685.708	0.690	114036	2.495											RM-8

Set 14 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
431 SUGARLOAF	315											c:\residential canal\linked\Medium Canals.pdf
432 SADDLEBUNCH KEYS	270							24	UNKNOWN SYSTEM,	0	1279	c:\residential canal\linked\Medium Canals.pdf
433 SADDLEBUNCH KEYS	180							6	UNKNOWN SYSTEM, NULL	1960	1279	c:\residential canal\linked\Small Canals.pdf
434 SADDLEBUNCH KEY	200							24	UNKNOWN SYSTEM,	0	1279	c:\residential canal\linked\Small Canals.pdf
435 SADDLEBUNCH KEYS	180							30	SEPTIC TANK, FDEP SECOND, CESSPOOL, UNKNOWN SYSTEM, NULL	0	1279	c:\residential canal\linked\Medium Canals.pdf
436 BIG COPPITT KEY	55							10	FDEP SECOND, NULL	1986	846	c:\residential canal\linked\Small Canals.pdf
437 BIG COPPITT	0							52	SEPTIC TANK, CESSPOOL, UNKNOWN SYSTEM, NULL	1971	900	c:\residential canal\linked\Medium Canals.pdf
438 BIG COPPITT KEY	0							16	NULL	1986	846	c:\residential canal\linked\Small Canals.pdf
439 BIG COPPITT KEY	0							13	SEPTIC TANK, NULL	1984	846	c:\residential canal\linked\Small Canals.pdf
440 BIG COPPITT KEY	55							7	FDEP SECOND,	1987	846	c:\residential canal\linked\Small Canals.pdf
441 BIG COPPITT KEY	0							22	UNKNOWN SYSTEM, NULL	1970	846	c:\residential canal\linked\Small Canals.pdf
442 BIG COPPITT	0											c:\residential canal\linked\Small Canals.pdf
443 BIG COPPITT KEY	0							26	SEPTIC TANK, NULL	1977	846	c:\residential canal\linked\Small Canals.pdf
444 BIG COPPITT KEY	0							28	SEPTIC TANK, NULL	1988	1403	c:\residential canal\linked\Small Canals.pdf
445 BIG COPPITT KEY	0							29	SEPTIC TANK, ATU, UNKNOWN SYSTEM, NULL	1963	1403	c:\residential canal\linked\Medium Canals.pdf
446 BIG COPPITT KEY	0							30	ATU, SEPTIC TANK, UNKNOWN SYSTEM, NULL	1963	1403	c:\residential canal\linked\Medium Canals.pdf
447 BIG COPPITT KEY	45							6	FDEP SECOND,	0	846	c:\residential canal\linked\Small Canals.pdf
448 BIG COPPITT KEY	NA							5	FDEP SECOND,	0	846	c:\residential canal\linked\Medium Canals.pdf
449 BIG COPPITT KEY	250							33	SEPTIC TANK, CESSPOOL, SEPTIC OR ATU, UNKNOWN SYSTEM, NULL	0	900	c:\residential canal\linked\Medium Canals.pdf
450 ROCKLAND	0							35	SEPTIC TANK, UNKNOWN SYSTEM, NULL	1981	1403	c:\residential canal\linked\Medium Canals.pdf
451 BOCA CHICA KEY	280							3	NULL	0	1403	c:\residential canal\linked\Jumbo Canals.pdf
452 GEIGER KEY	270							4	UNKNOWN SYSTEM, NULL	1968	846	c:\residential canal\linked\Small Canals.pdf
453 GEIGER KEY	270							6	NULL	0	846	c:\residential canal\linked\Small Canals.pdf
454 GEIGER KEY	270							6	NULL	0	846	c:\residential canal\linked\Small Canals.pdf
455 GEIGER KEY	270							2	NULL	0	846	c:\residential canal\linked\Small Canals.pdf
456 GEIGER KEY	110							7	UNKNOWN SYSTEM, NULL	0	846	c:\residential canal\linked\Small Canals.pdf
457 KEY HAVEN	80							65	FDEP SECOND,	1995	936	c:\residential canal\linked\Large Canals.pdf
458 GEIGER KEY	110							3	NULL	1974	846	c:\residential canal\linked\Small Canals.pdf
459 GEIGER KEY	110							4	NULL	0	846	c:\residential canal\linked\Small Canals.pdf
460 GEIGER KEY	30							15	NULL	0	846	c:\residential canal\linked\Small Canals.pdf
461 KEY HAVEN	30							51	FDEP SECOND,	1979	936	c:\residential canal\linked\Large Canals.pdf
462 GEIGER KEY	315							40	NULL	0	846	c:\residential canal\linked\Medium Canals.pdf
463 GEIGER KEY	30							34	NULL	0	846	c:\residential canal\linked\Small Canals.pdf
464 GEIGER KEY	30							24	FDEP SECOND, UNKNOWN SYSTEM, NULL	0	846	c:\residential canal\linked\Small Canals.pdf
465 GEIGER KEY	30							2	NULL	0	846	c:\residential canal\linked\Small Canals.pdf
466 GEIGER KEY	30							25	SEPTIC TANK, UNKNOWN SYSTEM, NULL	0	846	c:\residential canal\linked\Small Canals.pdf
467 GEIGER KEY	30							7	NULL	0	846	c:\residential canal\linked\Small Canals.pdf
468 GEIGER KEY	30							3	NULL	1980	846	c:\residential canal\linked\Small Canals.pdf
469 KEY HAVEN	NA							53	FDEP SECOND,	1977	936	c:\residential canal\linked\Large Canals.pdf

Set 14 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Treatment	Water Quality	Level I	Level II	Level III	Level IV	Canal Outfall	Description	Adj. To Marina	Degree of Convolution	Percent Natural	Percent Developed	Fill or Dredge	No. of Mouths	Energy at Mouth	Orientation	Area (m^2)	Acres	X-Coord.
470 GEIGER KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.C	III.B	High	Geiger Key Sound	Spoil Area	N	5	0	100	Fill	1	Low	325	14149.69	0.325	637126.518
471 KEY HAVEN	BMPs, AWWT/SWM	Poor	B.LARGE	II.A	III.B	High	Boca Chica Channel	Spoil Area	N	8	0	100	Fill	1	High	45	54134.86	1.243	629350.078
472 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similar Sound	Spoil Area	N	0	0	100	Fill	1	Medium	180	1824.949	0.042	637401.692
473 KEY HAVEN	Pumping. Backfilling, BMPs, AWWT/SWM	Fair	C.MEDIUM	II.A	III.B	High	Boca Chica Channel	Spoil Area	N	0	0	100	Fill	1	High	45	8142.992	0.187	629779.181
474 GEIGER KEY	Circulation Devices, BMPs, AWWT/SWM	Fair	D.SMALL	II.B	III.B	High	Similar Sound	Spoil Area	N	0	0	100	Fill	1	Medium	180	780.696	0.018	637265.225
475 GEIGER KEY	BMPs, AWWT/SWM	Fair	C.MEDIUM	II.B	III.B	High	Similar Sound	Spoil Area	N	2	0	100	Fill	0	Medium	NA	9341.386	0.214	637087.942
476 GEIGER KEY	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.B	High	Similar Sound	Spoil Area	N	1	0	100	Fill	1	Medium	180	1382.293	0.032	637178.694
477 KEY WEST	BMPs, AWWT/SWM	Poor	B.LARGE	II.C	III.B	High	Florida Bay	Spoil Area	N	1	0	100	Fill	2	Low	45, 135	48633.8	1.116	625459.168
478 STOCK ISLAND	BMPs, AWWT/SWM	Good	D.SMALL	II.B	III.A	High	Cow Key Channel	Channel	N	0	0	100	Dredge	1	Medium	270	4819.634	0.111	628034.010
479 STOCK ISLAND	BMPs, AWWT/SWM	Poor	B.LARGE	II.B	III.B	Med	Cow Key Channel	Channel	N	0	50	50	Fill	1	Medium	270	31449.22	0.722	628392.751
480 KEY WEST	Physical Connection, BMPs, AWWT/SWM	Poor	A.JUMBO	II.B	III.A	High	Cow Key Channel	Channel	N	9	25	75	Dredge	2	Medium	60, 320	138470.4	3.179	625550.384

Set 15 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Y-Coord.	Canal Depth (ft)	A/L Ratio	Depth (m)	Perimeter	Length (m)	Length (km)	Volume (m^3)	Hectacres	Modifications	Remarks	Salinty	Chla	Nutrients	Oxygen	Temp	Data Quality	Station No.	Water Quality Source	Zoning
470 GEIGER KEY	66559.212	2.88	2.88	4.57	2183.221	490.956	0.490	64664	1.415											RH-12
471 KEY HAVEN	66405.188	6.99	6.99	4.57	4541.219	774.928	0.770	247396	5.413											RM-8
472 GEIGER KEY	66378.916	0.95	0.95	4.57	403.231	193.035	0.190	8340	0.182											RH-12
473 KEY HAVEN	66297.600	2.9	2.9	4.57	592.519	280.440	0.280	37213	0.814											RM-8
474 GEIGER KEY	66221.860	1.14	1.14	4.57	153.832	68.193	0.070	3568	0.078											RH-12
475 GEIGER KEY	66188.880	1.53	1.53	4.57	1752.583	612.437	0.610	42690	0.934											RH-12
476 GEIGER KEY	66166.051	1.42	1.42	4.57	246.559	97.068	0.100	6317	0.138											RH-12
477 KEY WEST	66032.047	4.93	4.93	4.57	2245.114	987.441	0.990	222256	4.863											
478 STOCK ISLAND	65144.500	1.92	1.92	4.57	537.962	251.470	0.250	22026	0.482											
479 STOCK ISLAND	64618.514	7.29	7.29	4.57	1295.413	431.130	0.430	143723	3.145											RH-12
480 KEY WEST	64329.003	4.29	4.29	4.57	8918.193	3228.551	3.230	632810	13.847			Y	Y	Y	N	Y	GOOD	#86	Bay Watch	

Set 15 of 15

Summary of Canal Attributes Table

Attributes of Canals.shp

Residential Name	Orientation 1	Orientation 2	Orientation 3	Orientation 4	Orientation 5	Orientation 6	Orientation 7	No. of Inputs	Na. of Inputs	Year Built	Population (1990)	Linked PDF
470 GEIGER KEY	325							88	ATU, NULL	1991	846	c:\residential canal\linked\Medium Canals.pdf
471 KEY HAVEN	45							115	FDEP SECOND,	1972	936	c:\residential canal\linked\Large Canals.pdf
472 GEIGER KEY	180							21	NULL	1987	846	c:\residential canal\linked\Small Canals.pdf
473 KEY HAVEN	45							33	FDEP SECOND, NULL	1962	936	c:\residential canal\linked\Medium Canals.pdf
474 GEIGER KEY	180							2	NULL	1982	846	c:\residential canal\linked\Small Canals.pdf
475 GEIGER KEY	NA							69	ATU, NULL	1988	846	c:\residential canal\linked\Medium Canals.pdf
476 GEIGER KEY	180							6	NULL	1972	846	c:\residential canal\linked\Small Canals.pdf
477 KEY WEST	45	135						0	NULL	0		c:\residential canal\linked\Large Canals.pdf
478 STOCK ISLAND	270							1	FDEP SECOND,	0		c:\residential canal\linked\Small Canals.pdf
479 STOCK ISLAND	270							33	FDEP SECOND,	1972	1273	c:\residential canal\linked\Large Canals.pdf
480 KEY WEST	60	320						93	NULL	1970		c:\residential canal\linked\Jumbo Canals.pdf

Set 15 of 15

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
200	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	791192.2958	182444.139
201	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	784950.4954	173369.302
202	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	786501.7409	171619.7354
203	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	789801.736	170250.499
204	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	782157.856	164495.4438
205	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783526.2588	164222.5806
206	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	787487.7501	162902.1144
207	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	780420.6699	157074.5591
208	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	781901.5658	156537.5311
209	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	630505.7752	67021.9241
210	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	785729.2801	152863.2242
211	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	775931.4971	150662.5092
212	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	777608.2041	149231.0243
213	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783516.0526	145928.1961
214	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	772363.8584	143710.9694
215	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773422.6461	142685.4045
216	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	778029.86	139255.577
217	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	768512.8544	135509.9318
218	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773120.2162	134055.4956
219	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	776229.1657	130477.0499
220	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	765328.8243	128784.7839
221	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	766602.491	128456.2175
222	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	771573.2047	124401.5922
223	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	760495.2742	122722.9214
224	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	763396.4886	119550.4845
225	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	766022.064	116948.5878
226	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	752762.7863	116757.1401
227	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	755463.5025	116087.5484
228	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	758053.4623	113388.7695
229	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	746824.0087	110125.5894
230	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	747921.5334	108994.9431
231	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	751651.4023	106643.0415
232	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	743229.3945	107464.8421
233	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	744934.9612	104719.2315
234	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	746610.4716	100431.4402
235	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	736321.7112	101087.447
236	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	736987.1291	99826.7049
237	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	738414.1672	96865.4747
238	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	728538.4244	96797.2589
239	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	731726.0457	93311.9411
240	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	732838.9052	91378.7656
241	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	722363.0209	93092.6864
242	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	722056.1149	91868.2356
243	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	724131.1351	85030.2066
244	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	713305.5163	89366.2519
245	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	714611.4186	85970.5075
246	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	717643.1089	83069.0376
247	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	702175.8647	82685.5812
248	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	705090.527	79512.2531
249	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	705694.3582	77495.7834
250	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	684914.1755	79922.9716

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
251	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	686789.8686	74764.9757
252	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	687965.4913	70569.1324
253	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	672411.0043	74481.4522
254	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	676649.5865	75966.136
255	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	678958.296	71999.7437
256	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	679960.0601	67952.4081
257	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	669396.2727	73081.1594
258	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	670817.8894	68666.3653
259	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	671130.9613	66138.9366
260	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	661392.4782	72042.8263
261	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	661627.2571	69292.8646
262	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	661256.0639	67680.9709
263	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	663515.1575	63543.677
264	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	757193.7499	110047.5026
265	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	694608.4491	93979.8785
266	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	652456.3067	70256.8735
267	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	654457.3899	61321.6657
268	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	645251.0876	67537.9857
269	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	647077.3391	64426.8869
270	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	646677.2373	60227.7688
271	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	636239.3506	63911.1323
272	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	637596.4791	58262.6603
273	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	638016.9138	56668.9915
274	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	627833.8411	62092.1921
275	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	628460.0867	59860.1335
276	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	629242.3292	54770.2376
277	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	620682.1464	59297.9504
278	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	620937.1192	57196.4811
279	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	621622.5938	52709.7348
280	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	618522.4823	52167.4617
281	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	617163.5717	51799.0783
282	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	714497.331	100011.1564
283	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	702799.1218	103417.3756
284	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	707067.9474	100934.6572
285	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	711093.0711	93638.8884
286	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	710796.1166	90676.209
287	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	702101.9401	97486.2189
288	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	694433.6717	101367.951
289	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	699795.0344	89787.841
290	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	681071.6423	98767.9562
291	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	688200.2318	93846.5642
292	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	691803.585	87975.8477
293	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	692191.3779	85147.4533
294	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	685790.9305	86991.5595
295	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	667469.4023	97244.0536
296	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	673890.714	90718.2526
297	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	681887.0339	85269.3683
298	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	659428.292	95878.5435
299	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	668811.9478	79059.8284
300	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	672055.2574	81508.3877
301	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	663068.6308	88384.9339

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
302	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	654352.9946	91386.1908
303	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	663728.3776	79511.1591
304	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	657658.0734	81577.2476
305	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	647078.4443	87607.4156
306	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	643359.1113	84117.0968
307	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	650659.2677	82857.0268
308	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	653995.5393	79517.5184
309	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	634274.277	79510.5218
310	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	639468.7316	75152.4719
311	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	637790.0893	70697.0756
312	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	626236.6614	75155.9802
313	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	629442.5614	73195.7971
314	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	659166.1712	85847.2153
315	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	619730.3481	72098.6164
316	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	622441.3144	66883.3446
317	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	623886.7366	65715.3347
318	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	611968.0319	73913.1534
319	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	595147.6286	71218.7443
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323	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	585039.6963	79489.6876
324	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	586305.1487	73780.5924
325	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	592396.0843	61495.8282
326	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	576945.8466	79741.3506
327	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	579788.6893	69621.1974
328	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	579980.5308	51593.8887
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330	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	564471.5698	74803.8155
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342	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	526832.4021	78872.567
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201	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	784950.4954	173369.302

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
202	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	786501.7409	171619.7354
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204	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	782157.856	164495.4438
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Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
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303	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	663728.3776	79511.1591

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Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
204	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	782157.856	164495.4438
205	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783526.2588	164222.5806
206	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	787487.7501	162902.1144
207	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	780420.6699	157074.5591
208	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	781901.5658	156537.5311
209	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	630505.7752	67021.9241
210	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	785729.2801	152863.2242
211	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	775931.4971	150662.5092
212	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	777608.2041	149231.0243
213	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783516.0526	145928.1961
214	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	772363.8584	143710.9694
215	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773422.6461	142685.4045
216	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	778029.86	139255.577
217	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	768512.8544	135509.9318
218	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773120.2162	134055.4956
219	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	776229.1657	130477.0499
220	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	765328.8243	128784.7839
221	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	766602.491	128456.2175
222	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	771573.2047	124401.5922
223	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	760495.2742	122722.9214
224	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	763396.4886	119550.4845
225	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	766022.064	116948.5878
226	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	752762.7863	116757.1401
227	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	755463.5025	116087.5484
228	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	758053.4623	113388.7695
229	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	746824.0087	110125.5894
230	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	747921.5334	108994.9431
231	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	751651.4023	106643.0415
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234	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	746610.4716	100431.4402
235	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	736321.7112	101087.447
236	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	736987.1291	99826.7049
237	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	738414.1672	96865.4747
238	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	728538.4244	96797.2589
239	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	731726.0457	93311.9411
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241	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	722363.0209	93092.6864
242	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	722056.1149	91868.2356
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252	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	687965.4913	70569.1324
253	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	672411.0043	74481.4522
254	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	676649.5865	75966.136

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
255	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	678958.296	71999.7437
256	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	679960.0601	67952.4081
257	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	669396.2727	73081.1594
258	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	670817.8894	68666.3653
259	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	671130.9613	66138.9366
260	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	661392.4782	72042.8263
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268	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	645251.0876	67537.9857
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Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
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342	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	526832.4021	78872.567
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205	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783526.2588	164222.5806

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206	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	787487.7501	162902.1144
207	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	780420.6699	157074.5591
208	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	781901.5658	156537.5311
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234	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	746610.4716	100431.4402
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270	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	646677.2373	60227.7688
271	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	636239.3506	63911.1323
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307	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	650659.2677	82857.0268

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312	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	626236.6614	75155.9802
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207	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	780420.6699	157074.5591

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
208	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	781901.5658	156537.5311
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210	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	785729.2801	152863.2242
211	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	775931.4971	150662.5092
212	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	777608.2041	149231.0243
213	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783516.0526	145928.1961
214	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	772363.8584	143710.9694
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Summary of Water Quality Layer Attribute Table

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336	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	536939.104	73307.2419
337	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	542937.3883	66335.9023
338	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	513623.1227	71074.5484
339	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	550948.9676	48364.6323
340	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	536436.5511	54478.1869
341	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	512920.9235	77888.5913
342	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	526832.4021	78872.567
343	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	515727.3271	84196.4219
344	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	520986.6422	63000.3822
345	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	531358.6688	42676.8011
346	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	500309.07	74271.3185
347	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	501499.8988	72876.5417
348	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	515843.9678	71634.7815
349	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	508145.3823	71153.3345
350	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	514858.5305	50382.3524
200	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	791192.2958	182444.139
201	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	784950.4954	173369.302
202	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	786501.7409	171619.7354
203	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	789801.736	170250.499
204	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	782157.856	164495.4438
205	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783526.2588	164222.5806
206	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	787487.7501	162902.1144
207	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	780420.6699	157074.5591
208	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	781901.5658	156537.5311
209	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	630505.7752	67021.9241

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
210	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	785729.2801	152863.2242
211	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	775931.4971	150662.5092
212	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	777608.2041	149231.0243
213	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783516.0526	145928.1961
214	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	772363.8584	143710.9694
215	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773422.6461	142685.4045
216	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	778029.86	139255.577
217	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	768512.8544	135509.9318
218	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773120.2162	134055.4956
219	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	776229.1657	130477.0499
220	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	765328.8243	128784.7839
221	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	766602.491	128456.2175
222	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	771573.2047	124401.5922
223	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	760495.2742	122722.9214
224	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	763396.4886	119550.4845
225	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	766022.064	116948.5878
226	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	752762.7863	116757.1401
227	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	755463.5025	116087.5484
228	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	758053.4623	113388.7695
229	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	746824.0087	110125.5894
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238	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	728538.4244	96797.2589
239	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	731726.0457	93311.9411
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245	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	717148.4824	88434.4341
246	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	717643.1089	83069.0376
247	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	702175.8647	82685.5812
248	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	705090.527	79512.2531
249	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	705694.3582	77495.7834
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254	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	676649.5865	75966.136
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257	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	669396.2727	73081.1594
258	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	670817.8894	68666.3653
259	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	671130.9613	66138.9366
260	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	661392.4782	72042.8263

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
261	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	653051.8179	67195.98
262	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	661256.0639	67680.9709
263	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	663515.1575	63543.677
264	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	757193.7499	110047.5026
265	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	694608.4491	93979.8785
266	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	652456.3067	70256.8735
267	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	654457.3899	61321.6657
268	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	645251.0876	67537.9857
269	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	647077.3391	64426.8869
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272	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	637596.4791	58262.6603
273	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	638016.9138	56668.9915
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276	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	629242.3292	54770.2376
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295	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	667469.4023	97244.0536
296	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	673890.714	90718.2526
297	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	681887.0339	85269.3683
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307	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	650659.2677	82857.0268
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Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
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314	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	659166.1712	85847.2153
315	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	619730.3481	72098.6164
316	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	622441.3144	66883.3446
317	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	623886.7366	65715.3347
318	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	611968.0319	73913.1534
319	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	595147.6286	71218.7443
320	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	504536.8837	72643.3538
321	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	507244.4176	71557.8947
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323	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	585039.6963	79489.6876
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337	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	542937.3883	66335.9023
338	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	513623.1227	71074.5484
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344	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	520986.6422	63000.3822
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346	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	500309.07	74271.3185
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207	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	780420.6699	157074.5591
208	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	781901.5658	156537.5311
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Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
212	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	777608.2041	149231.0243
213	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783516.0526	145928.1961
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249	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	705694.3582	77495.7834
250	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	684914.1755	79922.9716
251	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	686789.8686	74764.9757
252	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	687965.4913	70569.1324
253	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	672411.0043	74481.4522
254	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	676649.5865	75966.136
255	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	678958.296	71999.7437
256	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	679960.0601	67952.4081
257	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	669396.2727	73081.1594
258	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	670817.8894	68666.3653
259	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	671130.9613	66138.9366
260	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	661392.4782	72042.8263
261	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	653051.8179	67195.98
262	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	661256.0639	67680.9709

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
263	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	663515.1575	63543.677
264	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	757193.7499	110047.5026
265	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	694608.4491	93979.8785
266	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	652456.3067	70256.8735
267	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	654457.3899	61321.6657
268	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	645251.0876	67537.9857
269	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	647077.3391	64426.8869
270	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	646677.2373	60227.7688
271	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	636239.3506	63911.1323
272	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	637596.4791	58262.6603
273	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	638016.9138	56668.9915
274	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	627833.8411	62092.1921
275	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	628460.0867	59860.1335
276	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	629242.3292	54770.2376
277	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	620682.1464	59297.9504
278	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	620937.1192	57196.4811
279	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	621622.5938	52709.7348
280	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	618522.4823	52167.4617
281	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	613578.2803	56667.2459
282	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	714497.331	100011.1564
283	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	702799.1218	103417.3756
284	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	707067.9474	100934.6572
285	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	711093.0711	93638.8884
286	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	710796.1166	90676.209
287	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	702101.9401	97486.2189
288	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	694433.6717	101367.951
289	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	699795.0344	89787.841
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311	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	637790.0893	70697.0756
312	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	626236.6614	75155.9802
313	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	629442.5614	73195.7971

Summary of Water Quality Layer Attribute Table

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314	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	659166.1712	85847.2153
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Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
214	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	772363.8584	143710.9694
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218	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773120.2162	134055.4956
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243	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	724131.1351	85030.2066
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Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
316	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	622441.3144	66883.3446
317	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	623886.7366	65715.3347
318	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	611968.0319	73913.1534
319	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	595147.6286	71218.7443
320	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	504536.8837	72643.3538
321	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	507244.4176	71557.8947
322	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	604528.4326	52451.4778
323	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	585039.6963	79489.6876
324	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	586305.1487	73780.5924
325	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	592396.0843	61495.8282
326	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	576945.8466	79741.3506
327	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	579788.6893	69621.1974
328	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	579980.5308	51593.8887
329	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	547445.1148	80282.109
330	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	564471.5698	74803.8155
331	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	573447.3165	57356.6943
332	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	565336.7197	60424.334
333	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	552723.6785	64882.3062
334	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	556964.4471	57730.5239
335	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	563841.2273	52128.8036
336	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	536939.104	73307.2419
337	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	542937.3883	66335.9023
338	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	513623.1227	71074.5484
339	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	550948.9676	48364.6323
340	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	536436.5511	54478.1869
341	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	512920.9235	77888.5913
342	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	526832.4021	78872.567
343	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	515727.3271	84196.4219
344	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	520986.6422	63000.3822
345	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	531358.6688	42676.8011
346	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	500309.07	74271.3185
347	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	501499.8988	72876.5417
348	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	515843.9678	71634.7815
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201	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	784950.4954	173369.302
202	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	786501.7409	171619.7354
203	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	789801.736	170250.499
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205	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783526.2588	164222.5806
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208	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	781901.5658	156537.5311
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210	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	785729.2801	152863.2242
211	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	775931.4971	150662.5092
212	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	777608.2041	149231.0243
213	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783516.0526	145928.1961
214	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	772363.8584	143710.9694
215	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773422.6461	142685.4045

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
216	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	778029.86	139255.577
217	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	768512.8544	135509.9318
218	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773120.2162	134055.4956
219	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	776229.1657	130477.0499
220	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	765328.8243	128784.7839
221	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	766602.491	128456.2175
222	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	771573.2047	124401.5922
223	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	760495.2742	122722.9214
224	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	763396.4886	119550.4845
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228	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	758053.4623	113388.7695
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234	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	746610.4716	100431.4402
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243	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	724131.1351	85030.2066
244	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	716891.5012	91938.7025
245	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	717148.4824	88434.4341
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Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
267	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	654457.3899	61321.6657
268	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	645251.0876	67537.9857
269	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	647077.3391	64426.8869
270	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	646677.2373	60227.7688
271	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	636239.3506	63911.1323
272	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	637596.4791	58262.6603
273	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	638016.9138	56668.9915
274	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	627833.8411	62092.1921
275	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	628460.0867	59860.1335
276	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	629242.3292	54770.2376
277	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	620682.1464	59297.9504
278	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	620937.1192	57196.4811
279	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	621622.5938	52709.7348
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314	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	659166.1712	85847.2153
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318	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	611968.0319	73913.1534
319	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	595147.6286	71218.7443
320	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	504536.8837	72643.3538
321	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	507244.4176	71557.8947
322	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	604528.4326	52451.4778
323	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	585039.6963	79489.6876
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332	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	565336.7197	60424.334
333	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	552723.6785	64882.3062
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343	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	515727.3271	84196.4219
344	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	520986.6422	63000.3822
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346	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	500309.07	74271.3185
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Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
218	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773120.2162	134055.4956
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229	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	746824.0087	110125.5894
230	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	747921.5334	108994.9431
231	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	752871.7591	107509.4628
232	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	743229.3945	107464.8421
233	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	744934.9612	104719.2315
234	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	746610.4716	100431.4402
235	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	736321.7112	101087.447
236	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	736987.1291	99826.7049
237	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	738414.1672	96865.4747
238	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	728538.4244	96797.2589
239	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	731726.0457	93311.9411
240	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	732838.9052	91378.7656
241	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	722363.0209	93092.6864
242	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	722056.1149	91868.2356
243	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	725111.6681	86791.1483
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246	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	717643.1089	83069.0376
247	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	702175.8647	82685.5812
248	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	706730.5829	80411.8006
249	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	705694.3582	77495.7834
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254	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	676649.5865	75966.136
255	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	678958.296	71999.7437
256	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	679960.0601	67952.4081
257	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	669396.2727	73081.1594
258	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	670817.8894	68666.3653
259	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	671130.9613	66138.9366
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262	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	661256.0639	67680.9709
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264	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	757193.7499	110047.5026
265	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	694608.4491	93979.8785
266	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	652456.3067	70256.8735
267	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	654457.3899	61321.6657
268	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	645251.0876	67537.9857

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
269	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	647077.3391	64426.8869
270	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	646677.2373	60227.7688
271	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	636239.3506	63911.1323
272	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	637596.4791	58262.6603
273	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	637342.4218	56863.4308
274	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	627833.8411	62092.1921
275	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	628460.0867	59860.1335
276	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	629242.3292	54770.2376
277	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	620682.1464	59297.9504
278	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	620937.1192	57196.4811
279	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	621622.5938	52709.7348
280	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	618522.4823	52167.4617
281	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	613578.2803	56667.2459
282	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	714497.331	100011.1564
283	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	702799.1218	103417.3756
284	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	707067.9474	100934.6572
285	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	711093.0711	93638.8884
286	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	710796.1166	90676.209
287	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	702101.9401	97486.2189
288	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	694433.6717	101367.951
289	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	699795.0344	89787.841
290	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	681071.6423	98767.9562
291	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	688200.2318	93846.5642
292	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	691803.585	87975.8477
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314	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	659166.1712	85847.2153
315	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	619730.3481	72098.6164
316	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	622441.3144	66883.3446
317	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	623886.7366	65715.3347
318	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	611968.0319	73913.1534
319	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	595147.6286	71218.7443

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
320	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	504536.8837	72643.3538
321	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	507244.4176	71557.8947
322	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	604528.4326	52451.4778
323	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	585039.6963	79489.6876
324	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	586305.1487	73780.5924
325	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	592396.0843	61495.8282
326	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	576945.8466	79741.3506
327	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	579788.6893	69621.1974
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333	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	552723.6785	64882.3062
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402	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	692197.6297	73225.2332
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Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
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218	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773120.2162	134055.4956
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Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
267	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	654457.3899	61321.6657
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290	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	681071.6423	98767.9562
291	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	688200.2318	93846.5642
292	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	691803.585	87975.8477
293	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	692191.3779	85147.4533
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296	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	673890.714	90718.2526
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305	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	647078.4443	87607.4156
306	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	643359.1113	84117.0968
307	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	650659.2677	82857.0268
308	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	653995.5393	79517.5184
309	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	634274.277	79510.5218
310	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	639468.7316	75152.4719
311	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	637790.0893	70697.0756
312	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	626236.6614	75155.9802
313	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	629442.5614	73195.7971
314	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	659166.1712	85847.2153
315	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	619730.3481	72098.6164
316	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	622441.3144	66883.3446
317	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	623886.7366	65715.3347

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
318	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	611968.0319	73913.1534
319	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	595147.6286	71218.7443
320	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	504536.8837	72643.3538
321	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	507244.4176	71557.8947
322	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	604528.4326	52451.4778
323	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	585039.6963	79489.6876
324	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	586305.1487	73780.5924
325	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	592396.0843	61495.8282
326	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	576945.8466	79741.3506
327	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	579788.6893	69621.1974
328	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	579980.5308	51593.8887
329	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	547445.1148	80282.109
330	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	564471.5698	74803.8155
331	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	573447.3165	57356.6943
332	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	565336.7197	60424.334
333	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	552723.6785	64882.3062
334	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	556964.4471	57730.5239
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400	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	772098.9371	128292.4125
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213	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783516.0526	145928.1961

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
214	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	772363.8584	143710.9694
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216	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	780719.0883	141057.5774
217	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	768512.8544	135509.9318
218	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773120.2162	134055.4956
219	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	776856.591	132285.6101
220	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	765328.8243	128784.7839
221	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	766602.491	128456.2175
222	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	771573.2047	124401.5922
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Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
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401	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	741085.5226	99195.2666
402	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	692197.6297	73225.2332
403	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	633017.5005	55684.6789
200	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	791192.2958	182444.139
201	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	784950.4954	173369.302
202	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	786501.7409	171619.7354
203	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	789801.736	170250.499
204	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	782157.856	164495.4438
205	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783526.2588	164222.5806
206	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	787487.7501	162902.1144
207	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	780420.6699	157074.5591
208	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	781901.5658	156537.5311
209	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	630505.7752	67021.9241
210	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	785729.2801	152863.2242
211	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	775931.4971	150662.5092

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
212	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	777608.2041	149231.0243
213	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	783516.0526	145928.1961
214	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	772363.8584	143710.9694
215	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773422.6461	142685.4045
216	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	780719.0883	141057.5774
217	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	768512.8544	135509.9318
218	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773120.2162	134055.4956
219	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	776856.591	132285.6101
220	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	765328.8243	128784.7839
221	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	766602.491	128456.2175
222	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	771573.2047	124401.5922
223	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	760495.2742	122722.9214
224	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	763396.4886	119550.4845
225	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	766250.4165	118101.2085
226	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	752762.7863	116757.1401
227	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	755463.5025	116087.5484
228	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	758053.4623	113388.7695
229	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	746824.0087	110125.5894
230	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	747921.5334	108994.9431
231	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	752871.7591	107509.4628
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233	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	744934.9612	104719.2315
234	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	746610.4716	100431.4402
235	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	736321.7112	101087.447
236	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	736987.1291	99826.7049
237	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	738414.1672	96865.4747
238	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	728538.4244	96797.2589
239	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	731726.0457	93311.9411
240	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	732838.9052	91378.7656
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255	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	678958.296	71999.7437
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257	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	669396.2727	73081.1594
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259	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	671130.9613	66138.9366
260	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	661392.4782	72042.8263
261	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	653051.8179	67195.98
262	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	661256.0639	67680.9709

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
263	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	663515.1575	63543.677
264	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	757193.7499	110047.5026
265	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	694608.4491	93979.8785
266	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	652456.3067	70256.8735
267	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	654457.3899	61321.6657
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274	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	627833.8411	62092.1921
275	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	628460.0867	59860.1335
276	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	629242.3292	54770.2376
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Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
314	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	659166.1712	85847.2153
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316	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	622441.3144	66883.3446
317	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	623886.7366	65715.3347
318	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	611968.0319	73913.1534
319	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	595147.6286	71218.7443
320	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	504536.8837	72643.3538
321	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	507244.4176	71557.8947
322	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	604528.4326	52451.4778
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325	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	592396.0843	61495.8282
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209	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	630505.7752	67021.9241

Summary of Water Quality Layer Attribute Table

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210	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	785729.2801	152863.2242
211	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	775931.4971	150662.5092
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258	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	670817.8894	68666.3653
259	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	671130.9613	66138.9366
260	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	661392.4782	72042.8263

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
261	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	653051.8179	67195.98
262	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	661256.0639	67680.9709
263	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	663515.1575	63543.677
264	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	757193.7499	110047.5026
265	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	694608.4491	93979.8785
266	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	652456.3067	70256.8735
267	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	654457.3899	61321.6657
268	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	645251.0876	67537.9857
269	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	647077.3391	64426.8869
270	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	646677.2373	60227.7688
271	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	636239.3506	63911.1323
272	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	637596.4791	58262.6603
273	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	637342.4218	56863.4308
274	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	627833.8411	62092.1921
275	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	628460.0867	59860.1335
276	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	629242.3292	54770.2376
277	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	620682.1464	59297.9504
278	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	620937.1192	57196.4811
279	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	621622.5938	52709.7348
280	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	618522.4823	52167.4617
281	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	613578.2803	56667.2459
282	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	714497.331	100011.1564
283	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	702799.1218	103417.3756
284	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	707067.9474	100934.6572
285	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	711093.0711	93638.8884
286	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	710796.1166	90676.209
287	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	702101.9401	97486.2189
288	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	694433.6717	101367.951
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296	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	673890.714	90718.2526
297	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	681887.0339	85269.3683
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307	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	650659.2677	82857.0268
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309	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	634274.277	79510.5218
310	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	639468.7316	75152.4719
311	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	637790.0893	70697.0756

Summary of Water Quality Layer Attribute Table

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312	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	626236.6614	75155.9802
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314	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	659166.1712	85847.2153
315	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	619730.3481	72098.6164
316	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	622441.3144	66883.3446
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Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
208	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	781901.5658	156537.5311
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211	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	775931.4971	150662.5092
212	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	777608.2041	149231.0243
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215	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773422.6461	142685.4045
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217	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	768512.8544	135509.9318
218	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	773120.2162	134055.4956
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258	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	670817.8894	68666.3653

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317	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	623886.7366	65715.3347
318	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	611968.0319	73913.1534
319	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	595147.6286	71218.7443
320	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	504536.8837	72643.3538
321	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	507244.4176	71557.8947
322	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	604528.4326	52451.4778
323	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	585039.6963	79489.6876
324	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	586305.1487	73780.5924
325	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	592396.0843	61495.8282
326	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	576945.8466	79741.3506
327	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	579788.6893	69621.1974
328	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	579980.5308	51593.8887
329	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	547445.1148	80282.109
330	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	564471.5698	74803.8155
331	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	573447.3165	57356.6943
332	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	565336.7197	60424.334
333	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	552723.6785	64882.3062
334	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	556964.4471	57730.5239
335	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	563841.2273	52128.8036
336	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	536939.104	73307.2419
337	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	542937.3883	66335.9023
338	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	513623.1227	71074.5484
339	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	550948.9676	48364.6323
340	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	536436.5511	54478.1869
341	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	512920.9235	77888.5913
342	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	526832.4021	78872.567
343	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	515727.3271	84196.4219
344	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	520986.6422	63000.3822
345	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	531358.6688	42676.8011
346	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	500309.07	74271.3185
347	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	501499.8988	72876.5417
348	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	515843.9678	71634.7815
349	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	508145.3823	71153.3345
350	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	514858.5305	50382.3524
400	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	772098.9371	128292.4125
401	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	741085.5226	99195.2666
402	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	692197.6297	73225.2332
403	FKNMS	Florida Keys National Marine Sanctuary Water Quality Protection Program	1999	5.05	633017.5005	55684.6789
	Doctors point November 1973, August 1974	Finger fill canal study florida and north carolina	May-75	40	667759.1964	80391.7843
8	Doctors point November 1973, August 1974	Finger fill canal study florida and north carolina	May-75	40	667620.7569	80613.2875
9	Doctors point November 1973, August 1974	Finger fill canal study florida and north carolina	May-75	40	667548.7684	80807.1028
10	Doctors point November 1973, August 1974	Finger fill canal study florida and north carolina	May-75	40	667410.3289	80989.8429
11	Doctors point November 1973, August 1974	Finger fill canal study florida and north carolina	May-75	40	668257.5785	80408.3971
12	Doctors point November 1973, August 1974	Finger fill canal study florida and north carolina	May-75	40	667759.1964	80472.0792

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
13	Doctors point November 1973, August 1974	Finger fill canal study florida and north carolina	May-75	40	667864.4104	80469.3104
14	Doctors point November 1973, August 1974	Finger fill canal study florida and north carolina	May-75	40	667997.3123	80474.848
	Doctors point November 1973, August 1974	Finger fill canal study florida and north carolina	May-75	40	667764.734	80555.1429
15	USEPA Marathon Aug 1974	Finger fill canal study florida and north carolina	May-75	40	698169.8158	84289.1221
16	USEPA Marathon Aug 1974	Finger fill canal study florida and north carolina	May-75	40	698704.0815	84529.8352
17	USEPA Marathon Aug 1974	Finger fill canal study florida and north carolina	May-75	40	698416.4	84529.8352
18	USEPA Marathon Aug 1974	Finger fill canal study florida and north carolina	May-75	40	698243.2039	84661.9339
19	USEPA Marathon Aug 1974	Finger fill canal study florida and north carolina	May-75	40	698087.621	84773.4839
1	SFDER Sunset Acres Oct 1988	Interoffice Memorandum SFDER Sunset Acres Oct 1988	Oct-88	39	751687.8498	118153.0023
2	SFDER Sunset Acres Oct 1988	Interoffice Memorandum SFDER Sunset Acres Oct 1988	Oct-88	39	751611.2398	118146.4625
3	SFDER Sunset Acres Oct 1988	Interoffice Memorandum SFDER Sunset Acres Oct 1988	Oct-88	39	751530.8927	118142.7254
4	SFDER Sunset Acres Oct 1988	Interoffice Memorandum SFDER Sunset Acres Oct 1988	Oct-88	39	751678.5071	118067.0497
5	SFDER Sunset Acres Oct 1988	Interoffice Memorandum SFDER Sunset Acres Oct 1988	Oct-88	39	751615.9111	118063.3126
6	SFDER Sunset Acres Oct 1988	Interoffice Memorandum SFDER Sunset Acres Oct 1988	Oct-88	39	751531.827	118060.5098
7	SFDER Sunset Acres Oct 1988	Interoffice Memorandum SFDER Sunset Acres Oct 1988	Oct-88	39	751675.7043	117985.7684
8	SFDER Sunset Acres Oct 1988	Interoffice Memorandum SFDER Sunset Acres Oct 1988	Oct-88	39	751628.0566	117983.8998
9	SFDER Sunset Acres Oct 1988	Interoffice Memorandum SFDER Sunset Acres Oct 1988	Oct-88	39	751557.0522	117985.7684
1	SFDER Sunset Acres April 1979	SFDER Sunset Acres April 1979	Apr-79	39	751506.6017	117996.9796
2	SFDER Sunset Acres April 1979	SFDER Sunset Acres April 1979	Apr-79	39	751533.6955	117981.097
3	SFDER Sunset Acres April 1979	SFDER Sunset Acres April 1979	Apr-79	39	751690.6526	118247.3634
4	SFDER Sunset Acres April 1979	SFDER Sunset Acres April 1979	Apr-79	39	751683.1784	118129.6456
5	SFDER Sunset Acres April 1979	SFDER Sunset Acres April 1979	Apr-79	39	751530.8927	118143.6597
6	SFDER Sunset Acres April 1979	SFDER Sunset Acres April 1979	Apr-79	39	751684.1127	118068.9182
7	SFDER Sunset Acres April 1979	SFDER Sunset Acres April 1979	Apr-79	39	751673.8357	117983.8998
8	SFDER Sunset Acres April 1979	SFDER Sunset Acres April 1979	Apr-79	39	751548.6438	118001.6509
1	Sunset Acres April 1998	EAS Sunset Acres	Apr-98	39	751688.784	118152.0681
2	Sunset Acres April 1998	EAS Sunset Acres	Apr-98	39	751533.6955	118140.8569
3	Sunset Acres April 1998	EAS Sunset Acres	Apr-98	39	751682.2441	118067.0497
4	Sunset Acres April 1998	EAS Sunset Acres	Apr-98	39	751674.77	117983.8998
5	Sunset Acres April 1998	EAS Sunset Acres	Apr-98	39	751560.7893	117988.5712
3	Middle Torch Key Feb 1996	Cahill Canal Study by ETI	Feb-96	38	666054.0796	76557.1501
4	Middle Torch Key Feb 1996	Cahill Canal Study by ETI	Feb-96	38	666239.3205	76613.3839
5	Middle Torch Key Feb 1996	Cahill Canal Study by ETI	Feb-96	38	666237.6666	76790.3551
6	Middle Torch Key Feb 1996	Cahill Canal Study by ETI	Feb-96	38	666231.0508	76950.787
7	Middle Torch Key Feb 1996	Cahill Canal Study by ETI	Feb-96	38	666328.6331	76955.7488
8	Middle Torch Key Feb 1996	Cahill Canal Study by ETI	Feb-96	38	666338.5567	76798.6248
9	Middle Torch Key Feb 1996	Cahill Canal Study by ETI	Feb-96	38	666376.5972	76610.0761
10	Middle Torch Key Feb 1996	Cahill Canal Study by ETI	Feb-96	38	666427.8692	76805.2406
11	Middle Torch Key Feb 1996	Cahill Canal Study by ETI	Feb-96	38	666525.4515	76808.5484
12	Middle Torch Key Feb 1996	Cahill Canal Study by ETI	Feb-96	38	666621.3798	76782.0854
1	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666621.3798	76858.1665
2	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666623.0337	76739.0831
3	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666623.0337	76623.3076
4	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666580.0314	76623.3076
5	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666522.1436	76919.3622
6	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666527.1054	76745.6988
7	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666522.1436	76610.0761
8	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666427.8692	76972.2881
9	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666429.5232	76753.9685
10	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666427.8692	76618.3457
11	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666325.3252	76973.9421

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
12	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666338.5567	76639.8469
13	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666389.8287	76606.7682
14	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666236.0126	76972.2881
15	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666236.0126	76787.0473
16	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666231.0508	76623.3076
17	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	666025.9627	76560.458
18	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	665961.4592	76560.458
19	Pine Channel OCT 1995	Cahill Canal Testing by ETI	Oct-95	38	665875.4545	76565.4198
0	Marathon	Boot Key Harbour Study FDEP	Dec-90	13		
1	Big Pine Key Feb 1993	Cahill Canal Study	Feb-93	38	666341.8646	76610.0761
2	Big Pine Key Feb 1993	Cahill Canal Study	Feb-93	38	666330.287	76800.2787
3	Big Pine Key Feb 1993	Cahill Canal Study	Feb-93	38	666517.1818	76808.5484
4	Big Pine Key Feb 1993	Cahill Canal Study	Feb-93	38	665969.7289	76563.7658
1	Summerland Key March 1973	Environmental Analysis Canal and Quarries Lower Florida Keys by Chesher	Mar-73	22	658447.6123	74997.6472
2	Summerland Key March 1973	Environmental Analysis Canal and Quarries Lower Florida Keys by Chesher	Mar-73	22	657466.9797	75912.6469
3	Summerland Key March 1973	Environmental Analysis Canal and Quarries Lower Florida Keys by Chesher	Mar-73	22	658559.5743	75723.4697
4	Summerland Key March 1973	Environmental Analysis Canal and Quarries Lower Florida Keys by Chesher	Mar-73	22	658632.9287	75800.6849
5	Summerland Key March 1973	Environmental Analysis Canal and Quarries Lower Florida Keys by Chesher	Mar-73	22	658080.8403	75924.2292
6	Summerland Key March 1973	Environmental Analysis Canal and Quarries Lower Florida Keys by Chesher	Mar-73	22	657910.9669	75897.2039
7	Summerland Key March 1973	Environmental Analysis Canal and Quarries Lower Florida Keys by Chesher	Mar-73	22	658694.7008	75410.7483
8	Summerland Key March 1973	Environmental Analysis Canal and Quarries Lower Florida Keys by Chesher	Mar-73	22	658891.5994	74789.1663
1	Riviera Canal	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	625987.4911	63994.9814
2	Riviera Canal	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	626089.3728	64043.4966
8	Riviera Canal	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	626268.8788	63970.7239
3	Riviera Canal	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	626579.3757	64213.2995
4	Riviera Canal	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	626904.4271	64324.8843
5	Riviera Canal	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	627122.7451	64412.2116
7	Riviera Canal	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	627695.2237	64611.1236
6	Riviera Canal	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	627404.1329	64518.9449
3	Big Coppitt Key	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	635867.214	68809.6876
4	Big Coppitt Key	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	636077.3695	68678.3404
2	Big Coppitt Key	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	636080.2883	68824.2817
1	Big Coppitt Key	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	635981.0482	68938.1159
1	Vaca & Key colon	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	700760.4029	83570.2501
2	Vaca & Key colon	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	700872.0997	83591.5257
3	Vaca & Key colon	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	700983.7966	83607.4824
1	Big Pine key	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	667822.2627	80330.7486
2	Big Pine key	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	667909.7234	80404.9577
6	Marathon Airstri	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	697857.9147	83576.8089
5	Marathon Airstri	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	698028.8843	83482.8662
4	Marathon Airstri	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	698211.7046	83739.3206
7	Marathon Airstri	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	699302.6062	84101.5683
1	Marathon Airstri	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	699193.1504	84052.1319
2	Marathon Airstri	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	698657.808	83955.3843
3	Marathon Airstri	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	698583.9474	83669.2142
1	Lake surprise	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	764925.0582	135287.8825
2	Lake surprise	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	764831.4743	135187.3665
3	Lake surprise	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	764938.9225	135384.9324
4	Lake surprise	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	764963.185	135481.9824
1	Lake surprise	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	764724.0262	135055.6559
2	Lake surprise	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	764543.7906	134823.4293

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
3	Lake surprise	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	764335.8265	134729.8454
1	Key Haven	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	629634.1391	66253.1466
2	Key Haven	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	629468.7807	66167.962
3	Key Haven	Survey of water quality in waterways and canals of the florida keys	Apr-73	29	629233.2703	66498.6788
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	748659.9051	115778.067
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	747786.3737	115075.0854
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	747312.3141	114296.473
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	745098.0912	111493.2204
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	744334.7973	110764.0753
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	741561.9279	110499.9415
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	737942.2595	107913.4738
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	739534.9743	108505.0914
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	738996.0287	107730.5234
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	728724.1683	100502.9596
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	728592.6703	100980.6999
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	728286.5204	100065.7614
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	739360.9401	112137.6026
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	742637.2885	110854.1747
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	739988.4807	109980.3346
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	737604.7795	106354.755
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	748171.6534	112211.9079
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	741346.0787	110237.2443
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	733087.1979	104103.4151
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	731339.2036	102470.2211
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	731802.5334	102849.8882
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	729176.6996	101117.129
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	742892.2472	112295.9228
	Village of Islamorada	Islamorada Water Quality Stations	Jun-02	37	715781.4781	101314.3753
0		Bay wacth statio	Jun-02	6.01-6.14	694882.3957	81531.85
0		Bay wacth statio	Jun-02	6.01-6.14	663660.5178	78238.0507
0		Bay wacth statio	Jun-02	6.01-6.14	663161.2795	78966.6688
0		Bay wacth statio	Jun-02	6.01-6.14	708447.4867	88984.4391
0		Bay wacth statio	Jun-02	6.01-6.14	746947.0171	112398.7422
0		Bay wacth statio	Jun-02	6.01-6.14	748640.7799	109697.2209
0		Bay wacth statio	Jun-02	6.01-6.14	711880.8312	89003.382
0		Bay wacth statio	Jun-02	6.01-6.14	687661.4121	81202.3593
0		Bay wacth statio	Jun-02	6.01-6.14	763108.5061	131766.857
0		Bay wacth statio	Jun-02	6.01-6.14	744455.8815	111126.0246
0		Bay wacth statio	Jun-02	6.01-6.14	752289.3988	119505.7766
0		Bay wacth statio	Jun-02	6.01-6.14	758848.801	125447.1497
0		Bay wacth statio	Jun-02	6.01-6.14	739482.0309	105635.8901
0		Bay wacth statio	Jun-02	6.01-6.14	746024.4488	111762.9821
0		Bay wacth statio	Jun-02	6.01-6.14	665476.2771	75078.05
0		Bay wacth statio	Jun-02	6.01-6.14	758137.3205	126290.0225
0		Bay wacth statio	Jun-02	6.01-6.14	748251.7195	105926.2944
0		Bay wacth statio	Jun-02	6.01-6.14	709827.5805	89720.9422
0		Bay wacth statio	Jun-02	6.01-6.14	752315.9015	119698.7654
0		Bay wacth statio	Jun-02	6.01-6.14	739980.9325	107083.9381
0		Bay wacth statio	Jun-02	6.01-6.14	655009.3509	75777.9434
0		Bay wacth statio	Jun-02	6.01-6.14	756991.0626	125249.4078
0		Bay wacth statio	Jun-02	6.01-6.14	729168.0683	98635.9946

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
0		Bay wacth statio	Jun-02	6.01-6.14	739359.623	106481.0243
0		Bay wacth statio	Jun-02	6.01-6.14	743719.3083	111425.5316
0		Bay wacth statio	Jun-02	6.01-6.14	663843.3895	78201.23
0		Bay wacth statio	Jun-02	6.01-6.14	668307.3412	73300.1506
0		Bay wacth statio	Jun-02	6.01-6.14	714164.3538	91720.246
0		Bay wacth statio	Jun-02	6.01-6.14	740609.8954	107711.1653
0		Bay wacth statio	Jun-02	6.01-6.14	761429.2785	130486.4207
0		Bay wacth statio	Jun-02	6.01-6.14	630261.0693	64480.8176
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	698020.4962	85372.7511
0		Bay wacth statio	Jun-02	6.01-6.14	698503.7742	84615.4616
0		Bay wacth statio	Jun-02	6.01-6.14	700202.1634	84497.3626
0		Bay wacth statio	Jun-02	6.01-6.14	701958.0304	83536.3015
0		Bay wacth statio	Jun-02	6.01-6.14	624010.7423	62545.4294
0		Bay wacth statio	Jun-02	6.01-6.14	663948.7784	77686.1477
0		Bay wacth statio	Jun-02	6.01-6.14	665117.2979	80063.1492
0		Bay wacth statio	Jun-02	6.01-6.14	744283.7029	110662.8352
0		Bay wacth statio	Jun-02	6.01-6.14	622172.5609	64252.8762
0		Bay wacth statio	Jun-02	6.01-6.14	654868.1908	75669.7364
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	761273.1571	131408.2289
0		Bay wacth statio	Jun-02	6.01-6.14	709649.5018	89768.2998
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	662538.8792	76015.5499
0		Bay wacth statio	Jun-02	6.01-6.14	692154.4641	81687.489
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	670116.4457	74815.4792
0		Bay wacth statio	Jun-02	6.01-6.14	694637.8505	81320.9441
0		Bay wacth statio	Jun-02	6.01-6.14	692110.0433	81714.1673
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	761529.1188	129133.9817
0		Bay wacth statio	Jun-02	6.01-6.14	627915.5565	64179.0523
0		Bay wacth statio	Jun-02	6.01-6.14	624445.1535	62797.0931
0		Bay wacth statio	Jun-02	6.01-6.14	668309.7652	73187.4537
0		Bay wacth statio	Jun-02	6.01-6.14	621520.8922	62366.2154
0		Bay wacth statio	Jun-02	6.01-6.14	665232.0035	78631.7039
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	695325.1141	83619.4255
0		Bay wacth statio	Jun-02	6.01-6.14	652258.8705	75864.3575
0		Bay wacth statio	Jun-02	6.01-6.14	651800.9006	75746.0122
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	668234.0117	77805.3075
0		Bay wacth statio	Jun-02	6.01-6.14	665709.1473	77522.0857
0		Bay wacth statio	Jun-02	6.01-6.14	665232.0035	78631.7039
0		Bay wacth statio	Jun-02	6.01-6.14	694699.2918	81289.1332
0		Bay wacth statio	Jun-02	6.01-6.14	653636.2962	93680.1378
0		Bay wacth statio	Jun-02	6.01-6.14	723167.3491	66059.9724
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	759570.5717	127912.2729
0		Bay wacth statio	Jun-02	6.01-6.14	662393.3482	75079.3298

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
0		Bay wacth statio	Jun-02	6.01-6.14	763141.3812	134029.1604
0		Bay wacth statio	Jun-02	6.01-6.14	626991	64441.2116
0		Bay wacth statio	Jun-02	6.01-6.14	662880.6232	83160.8989
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	665232.0035	78631.7039
0		Bay wacth statio	Jun-02	6.01-6.14	652551.6436	75896.1142
0		Bay wacth statio	Jun-02	6.01-6.14	652004.1264	75452.6684
0		Bay wacth statio	Jun-02	6.01-6.14	652103.2503	75554.4493
0		Bay wacth statio	Jun-02	6.01-6.14	759055.7729	125845.0632
0		Bay wacth statio	Jun-02	6.01-6.14	761273.0507	131411.8868
0		Bay wacth statio	Jun-02	6.01-6.14	664533.3437	75324.093
0		Bay wacth statio	Jun-02	6.01-6.14	664533.3437	75324.093
0		Bay wacth statio	Jun-02	6.01-6.14	664533.3437	75324.093
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	629864.6788	64560.3068
0		Bay wacth statio	Jun-02	6.01-6.14	701940.5933	83003.6508
0		Bay wacth statio	Jun-02	6.01-6.14	638066.9219	62973.7049
0		Bay wacth statio	Jun-02	6.01-6.14	658787.8203	75236.8142
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	757224.9375	120445.3524
0		Bay wacth statio	Jun-02	6.01-6.14	759364.1337	126685.9967
0		Bay wacth statio	Jun-02	6.01-6.14	745724.0695	110769.3424
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	758552.9336	121260.1093
0		Bay wacth statio	Jun-02	6.01-6.14	658660.9355	75988.0658
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0		Bay wacth statio	Jun-02	6.01-6.14	749927.4213	116344.2284
0		Bay wacth statio	Jun-02	6.01-6.14	9913432.265	811524.0748
0	Marathon	Boot Key Harbour Study FDEP	Dec-90	13	698142.1474	83529.3746
0	Marathon	Boot Key Harbour Study FDEP	Dec-90	13	698146.5636	83344.7536
0	Boot Key Harbor	Boot Key Harbour Study FDEP	Dec-90	13	693341.7812	81379.0807
0	Boot Key Harbor	Boot Key Harbour Study FDEP	Dec-90	13	693238.4079	81809.071
0	Boot Key Harbor	Boot Key Harbour Study FDEP	Dec-90	13	694568.4673	81688.8597
0	Boot Key Harbor	Boot Key Harbour Study FDEP	Dec-90	13	694806.7428	82023.4678
0	Boot Key Harbor	Boot Key Harbour Study FDEP	Dec-90	13	695508.4566	82049.8403
0	Boot Key Harbor	Boot Key Harbour Study FDEP	Dec-90	13	694417.2698	80668.8756
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	671849.6355	74954.7543
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	669952.3712	80279.3338
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	668907.8032	77488.0387
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	668996.9124	77494.7219
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	667989.6028	80599.1732
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	668134.4628	80609.0124
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	663431.603	82787.2456
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	665514.5284	77572.2736

Summary of Water Quality Layer Attribute Table

Ref_number	Key_name	Source	Source_dat	Bibliography	X_coord	Y_coord
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	665208.2337	79434.5841
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	658605.9202	75087.795
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	652461.0552	75746.2452
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	646540.3915	73708.8201
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	655350.1893	75681.7959
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	655445.3147	76430.8703
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	628656.7922	66984.2902
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	637079.3229	66125.8756
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	698483.8141	84508.6748
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	701790.9233	83603.3769
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	703191.4741	84734.7908
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	705468.5079	86034.6167
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	721870.6367	95663.4862
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	729541.5366	98973.9313
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	744515.3645	110943.5007
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	748882.7214	115796.8945
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	749711.6498	115594.1351
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	749653.1816	116513.8083
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	752202.1006	118041.1186
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	752297.495	117802.6327
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	751998.3168	118918.611
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	755211.6092	122492.9103
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	756779.8455	125790.4616
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	759624.2246	128127.369
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	759809.1515	128486.7357
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	760180.5936	128783.3908
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	762561.0417	130872.9259
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	761387.0097	130839.03
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	762049.5212	131381.3649
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	763416.7215	132047.5356
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	763108.5766	133963.8115
0	Florida Keys	Proposed Designation of the waters of the Florida Keys as Outstanding Floriday Waters	Mar-95	9	764524.1171	135114.5401