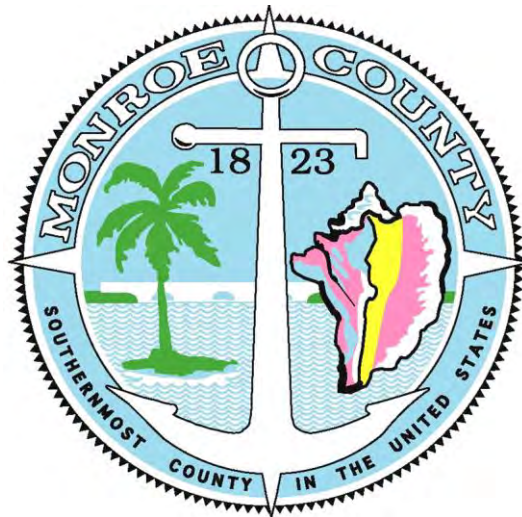


MANAGEMENT PLAN FOR MONROE COUNTY CONSERVATION LANDS

MONROE COUNTY, FLORIDA

OWNED BY: STATE OF FLORIDA, BOARD OF TRUSTEES

MANAGED BY: MONROE COUNTY



MANAGEMENT PLAN FOR 2018-2028

LAND MANAGEMENT PLAN COMPLIANCE

CHECKLIST

→ Required for State-owned conservation lands over 160 acres ←

Instructions for managers:

Complete each item and fill in the applicable correlating **page numbers and/or appendix** where the item can be found within the land management plan (LMP). If an item does not apply to the subject property, please describe that fact on a correlating page number of the LMP. Do not mark an "N/A" for any items below.

For more information, please visit the stewardship portion of the Division of State Lands' website at: <http://www.dep.state.fl.us/lands/stewardship.htm>.

Section A: Acquisition Information Items

Item #	Requirement	Statute/Rule	Page Numbers and/or Appendix
1.	The common name of the property.	18-2.018 & 18-2.021	Executive Summary
2.	The land acquisition program, if any, under which the property was acquired.	18-2.018 & 18-2.021	Executive Summary
3.	Degree of title interest held by the Board, including reservations and encumbrances such as leases.	18-2.021	6
4.	The legal description and acreage of the property.	18-2.018 & 18-2.021	6
5.	A map showing the approximate location and boundaries of the property, and the location of any structures or improvements to the property.	18-2.018 & 18-2.021	2-6
6.	An assessment as to whether the property, or any portion, should be declared surplus. <i>Provide Information regarding assessment and analysis in the plan, and provide corresponding map.</i>	18-2.021	16
7.	Identification of other parcels of land within or immediately adjacent to the property that should be purchased because they are essential to management of the property. <i>Please clearly indicate parcels on a map.</i>	18-2.021	16
8.	Identification of adjacent land uses that conflict with the planned use of the property, if any.	18-2.021	24
9.	A statement of the purpose for which the lands were acquired, the projected use or uses as defined in 253.034 and the statutory authority for such use or uses.	259.032(10)	13
10.	Proximity of property to other significant State, local or federal land or water resources.	18-2.021	7

Section B: Use Items

Item #	Requirement	Statute/Rule	Page Numbers and/or Appendix
11.	The designated single use or multiple use management for the property, including use by other managing entities.	18-2.018 & 18-2.021	13
12.	A description of past and existing uses, including any unauthorized uses of the property.	18-2.018 & 18-2.021	12
13.	A description of alternative or multiple uses of the property considered by the lessee and a statement detailing why such uses were not adopted.	18-2.018	15
14.	A description of the management responsibilities of each entity involved in the property's management and how such responsibilities will be coordinated.	18-2.018	18
15.	Include a provision that requires that the managing agency consult with the Division of Historical Resources, Department of State before taking actions that may adversely affect archeological or historical resources.	18-2.021	23
16.	Analysis/description of other managing agencies and private land managers, if any, which could facilitate the restoration or management of the land.	18-2.021	18

17.	A determination of the public uses and public access that would be consistent with the purposes for which the lands were acquired.	259.032(10)	13-15
18.	A finding regarding whether each planned use complies with the 1981 State Lands Management Plan, particularly whether such uses represent "balanced public utilization," specific agency statutory authority and any other legislative or executive directives that constrain the use of such property.	18-2.021	14-15
19.	Letter of compliance from the local government stating that the LMP is in compliance with the Local Government Comprehensive Plan.	BOT requirement	Appendix D
20.	An assessment of the impact of planned uses on the renewable and non-renewable resources of the property, including soil and water resources, and a detailed description of the specific actions that will be taken to protect, enhance and conserve these resources and to compensate/mitigate damage caused by such uses, including a description of how the manager plans to control and prevent soil erosion and soil or water contamination.	18-2.018 & 18-2.021	24
21.	*For managed areas larger than 1,000 acres, an analysis of the multiple-use potential of the property which shall include the potential of the property to generate revenues to enhance the management of the property provided that no lease, easement, or license for such revenue-generating use shall be entered into if the granting of such lease, easement or license would adversely affect the tax exemption of the interest on any revenue bonds issued to fund the acquisition of the affected lands from gross income for federal income tax purposes, pursuant to Internal Revenue Service regulations.	18-2.021 & 253.036	--
22.	If the lead managing agency determines that timber resource management is not in conflict with the primary management objectives of the managed area, a component or section, prepared by a qualified professional forester, that assesses the feasibility of managing timber resources pursuant to section 253.036, F.S.	18-021	24
23.	A statement regarding incompatible use in reference to Ch. 253.034(10).	253.034(10)	15

*The following taken from 253.034(10) is not a land management plan requirement; however, it should be considered when developing a land management plan: The following additional uses of conservation lands acquired pursuant to the Florida Forever program and other state-funded conservation land purchase programs shall be authorized, upon a finding by the Board of Trustees, if they meet the criteria specified in paragraphs (a)-(e): water resource development projects, water supply development projects, storm-water management projects, linear facilities and sustainable agriculture and forestry. Such additional uses are authorized where: (a) Not inconsistent with the management plan for such lands; (b) Compatible with the natural ecosystem and resource values of such lands; (c) The proposed use is appropriately located on such lands and where due consideration is given to the use of other available lands; (d) The using entity reasonably compensates the titleholder for such use based upon an appropriate measure of value; and (e) The use is consistent with the public interest.

Section C: Public Involvement Items

Item #	Requirement	Statute/Rule	Page Numbers and/or Appendix
24.	A statement concerning the extent of public involvement and local government participation in the development of the plan, if any.	18-2.021	16
25.	The management prospectus required pursuant to paragraph (9)(d) shall be available to the public for a period of 30 days prior to the public hearing.	259.032(10)	Appendix E
26.	LMPs and LMP updates for parcels over 160 acres shall be developed with input from an advisory group who must conduct at least one public hearing within the county in which the parcel or project is located. <i>Include the advisory group members and their affiliations, as well as the date and location of the advisory group meeting.</i>	259.032(10)	Appendix E
27.	Summary of comments and concerns expressed by the advisory group for parcels over 160 acres	18-2.021	Appendix E
28.	During plan development, at least one public hearing shall be held in each affected county. Notice of such public hearing shall be posted on the parcel or project designated for management, advertised in a paper of general circulation, and announced at a scheduled meeting of the local governing body before the actual public hearing. <i>Include a copy of each County's advertisements and announcements (meeting minutes will suffice to indicate an announcement) in the management plan.</i>	253.034(5) & 259.032(10)	Appendix E

29.	The manager shall consider the findings and recommendations of the land management review team in finalizing the required 10-year update of its management plan. <i>Include manager's replies to the team's findings and recommendations.</i>	259.036	Appendix E
30.	Summary of comments and concerns expressed by the management review team, if required by Section 259.036, F.S.	18-2.021	Appendix E
31.	If manager is not in agreement with the management review team's findings and recommendations in finalizing the required 10-year update of its management plan, the managing agency should explain why they disagree with the findings or recommendations.	259.036	Appendix E

Section D: Natural Resources

Item #	Requirement	Statute/Rule	Page Numbers and/or Appendix
32.	Location and description of known and reasonably identifiable renewable and non-renewable resources of the property regarding soil types. <i>Use brief descriptions and include USDA maps when available.</i>	18-2.021	Appendix A
33.	Insert FNAI based natural community maps when available.	ARC consensus	Appendix B
34.	Location and description of known and reasonably identifiable renewable and non-renewable resources of the property regarding outstanding native landscapes containing relatively unaltered flora, fauna and geological conditions.	18-2.021	12
35.	Location and description of known and reasonably identifiable renewable and non-renewable resources of the property regarding unique natural features and/or resources including but not limited to virgin timber stands, scenic vistas, natural rivers and streams, coral reefs, natural springs, caverns and large sinkholes.	18-2.018 & 18-2.021	12
36.	Location and description of known and reasonably identifiable renewable and non-renewable resources of the property regarding beaches and dunes.	18-2.021	11
37.	Location and description of known and reasonably identifiable renewable and non-renewable resources of the property regarding mineral resources, such as oil, gas and phosphate, etc.	18-2.018 & 18-2.021	12
38.	Location and description of known and reasonably identifiable renewable and non-renewable resources of the property regarding fish and wildlife, both game and non-game, and their habitat.	18-2.018 & 18-2.021	9
39.	Location and description of known and reasonably identifiable renewable and non-renewable resources of the property regarding State and Federally listed endangered or threatened species and their habitat.	18-2.021	9-11
40.	The identification or resources on the property that are listed in the Natural Areas Inventory. <i>Include letter from FNAI or consultant where appropriate.</i>	18-2.021	Appendix B
41.	Specific description of how the managing agency plans to identify, locate, protect and preserve or otherwise use fragile, nonrenewable natural and cultural resources.	259.032(10)	12
42.	Habitat Restoration and Improvement		
42-A.	Describe management needs, problems and a desired outcome and the key management activities necessary to achieve the enhancement, protection and preservation of restored habitats and enhance the natural, historical and archeological resources and their values for which the lands were acquired.	259.032(10) & 253.034(5) ↓	19-23
42-B.	Provide a detailed description of both short (2-year planning period) and long-term (10-year planning period) management goals, and a priority schedule based on the purposes for which the lands were acquired and include a timeline for completion.		19-23
42-C.	The associated measurable objectives to achieve the goals.		19-23
42-D.	The related activities that are to be performed to meet the land management objectives and their associated measures. <i>Include fire management plans - they can be in plan body or an appendix.</i>		19-23

42-E.	A detailed expense and manpower budget in order to provide a management tool that facilitates development of performance measures, including recommendations for cost-effective methods of accomplishing those activities.		25-26
43.	***Quantitative data description of the land regarding an inventory of forest and other natural resources and associated acreage. <i>See footnote.</i>	253.034(5)	Ex Summary
44.	Sustainable Forest Management, including implementation of prescribed fire management	18-2.021, 253.034(5) & 259.032(10) ↓	
44-A.	Management needs, problems and a desired outcome (see requirement for # 42-A).		24
44-B.	Detailed description of both short and long-term management goals (see requirement for # 42-B).		24
44-C.	Measurable objectives (see requirement for #42-C).		24
44-D.	Related activities (see requirement for #42-D).		24
44-E.	Budgets (see requirement for #42-E).		24
45.	Imperiled species, habitat maintenance, enhancement, restoration or population restoration	259.032(10) & 253.034(5) ↓	
45-A.	Management needs, problems and a desired outcome (see requirement for # 42-A).		19-23
45-B.	Detailed description of both short and long-term management goals (see requirement for # 42-B).		19-23
45-C.	Measurable objectives (see requirement for #42-C).		19-23
45-D.	Related activities (see requirement for #42-D).		19-23
45-E.	Budgets (see requirement for #42-E).		25-26
46.	***Quantitative data description of the land regarding an inventory of exotic and invasive plants and associated acreage. <i>See footnote.</i>	253.034(5)	19
47.	Place the Arthropod Control Plan in an appendix. If one does not exist, provide a statement as to what arrangement exists between the local mosquito control district and the management unit.	BOT requirement via lease language	25
48.	Exotic and invasive species maintenance and control	259.032(10) & 253.034(5) ↓	
48-A.	Management needs, problems and a desired outcome (see requirement for # 42-A).		19-23
48-B.	Detailed description of both short and long-term management goals (see requirement for # 42-B).		19-23
48-C.	Measurable objectives (see requirement for #42-C).		19-23
48-D.	Related activities (see requirement for #42-D).		19-23
48-E.	Budgets (see requirement for #42-E).		25-26

Section E: Water Resources

Item #	Requirement	Statute/Rule	Page Numbers and/or Appendix
49.	A statement as to whether the property is within and/or adjacent to an aquatic preserve or a designated area of critical state concern or an area under study for such designation. <i>If yes, provide a list of the appropriate managing agencies that have been notified of the proposed plan.</i>	18-2.018 & 18-2.021	6
50.	Location and description of known and reasonably identifiable renewable and non-renewable resources of the property regarding water resources, including water classification for each water body and the identification of any such water body that is designated as an Outstanding Florida Water under Rule 62-302.700, F.A.C.	18-2.021	6, 11
51.	Location and description of known and reasonably identifiable renewable and non-renewable resources of the property regarding swamps, marshes and other wetlands.	18-2.021	11
52.	***Quantitative description of the land regarding an inventory of hydrological features and associated acreage. <i>See footnote.</i>	253.034(5)	23
53.	Hydrological Preservation and Restoration	259.032(10) & 253.034(5) ↓	
53-A.	Management needs, problems and a desired outcome (see requirement		23

	for # 42-A).		
53-B.	Detailed description of both short and long-term management goals (see requirement for # 42-B).		23
53-C.	Measurable objectives (see requirement for #42-C).		23
53-D.	Related activities (see requirement for #42-D).		23
53-E.	Budgets (see requirement for #42-E).		25-26

Section F: Historical, Archeological and Cultural Resources

Item #	Requirement	Statute/Rule	Page Numbers and/or Appendix
54.	**Location and description of known and reasonably identifiable renewable and non-renewable resources of the property regarding archeological and historical resources. <i>Include maps of all cultural resources except Native American sites, unless such sites are major points of interest that are open to public visitation.</i>	18-2.018, 18-2.021 & per DHR's request	12
55.	***Quantitative data description of the land regarding an inventory of significant land, cultural or historical features and associated acreage.	253.034(5)	12
56.	A description of actions the agency plans to take to locate and identify unknown resources such as surveys of unknown archeological and historical resources.	18-2.021	12
57.	Cultural and Historical Resources		
57-A.	Management needs, problems and a desired outcome (see requirement for # 42-A).		23
57-B.	Detailed description of both short and long-term management goals (see requirement for # 42-B).	259.032(10) & 253.034(5) ↓	23
57-C.	Measurable objectives (see requirement for #42-C).		23
57-D.	Related activities (see requirement for #42-D).		23
57-E.	Budgets (see requirement for #42-E).		23

**While maps of Native American sites should not be included in the body of the management plan, the DSL urges each managing agency to provide such information to the Division of Historical Resources for inclusion in their proprietary database. This information should be available for access to new managers to assist them in developing, implementing and coordinating their management activities.

Section G: Facilities (Infrastructure, Access, Recreation)

Item #	Requirement	Statute/Rule	Page Numbers and/or Appendix
58.	***Quantitative data description of the land regarding an inventory of infrastructure and associated acreage. <i>See footnote.</i>	253.034(5)	26
59.	Capital Facilities and Infrastructure		
59-A.	Management needs, problems and a desired outcome (see requirement for # 42-A).		26
59-B.	Detailed description of both short and long-term management goals (see requirement for # 42-B).	259.032(10) & 253.034(5) ↓	26
59-C.	Measurable objectives (see requirement for #42-C).		26
59-D.	Related activities (see requirement for #42-D).		26
59-E.	Budgets (see requirement for #42-E).		26
60.	*** Quantitative data description of the land regarding an inventory of recreational facilities and associated acreage.	253.034(5)	26
61.	Public Access and Recreational Opportunities		
61-A.	Management needs, problems and a desired outcome (see requirement for # 42-A).		15
61-B.	Detailed description of both short and long-term management goals (see requirement for # 42-B).	259.032(10) & 253.034(5) ↓	15
61-C.	Measurable objectives (see requirement for #42-C).		15
61-D.	Related activities (see requirement for #42-D).		15
61-E.	Budgets (see requirement for #42-E).		15

Section H: Other/ Managing Agency Tools

Item #	Requirement	Statute/Rule	Page Numbers and/or Appendix
62.	Place this LMP Compliance Checklist at the front of the plan.	ARC and managing agency consensus	Included
63.	Place the Executive Summary at the front of the LMP. Include a physical description of the land.	ARC and 253.034(5)	Included
64.	If this LMP is a 10-year update, note the accomplishments since the drafting of the last LMP set forth in an organized (categories or bullets) format.	ARC consensus	16-18
65.	Key management activities necessary to achieve the desired outcomes regarding other appropriate resource management.	259.032(10)	18-23
66.	Summary budget for the scheduled land management activities of the LMP including any potential fees anticipated from public or private entities for projects to offset adverse impacts to imperiled species or such habitat, which fees shall be used to restore, manage, enhance, repopulate, or acquire imperiled species habitat for lands that have or are anticipated to have imperiled species or such habitat onsite. The summary budget shall be prepared in such a manner that it facilitates computing an aggregate of land management costs for all state-managed lands using the categories described in s. 259.037(3) which are resource management, administration, support, capital improvements, recreation visitor services, law enforcement activities.	253.034(5)	25-26
67.	Cost estimate for conducting other management activities which would enhance the natural resource value or public recreation value for which the lands were acquired, include recommendations for cost-effective methods in accomplishing those activities.	259.032(10)	25-26
68.	A statement of gross income generated, net income and expenses.	18-2.018	26

*** = The referenced inventories shall be of such detail that objective measures and benchmarks can be established for each tract of land and monitored during the lifetime of the plan. All quantitative data collected shall be aggregated, standardized, collected, and presented in an electronic format to allow for uniform management reporting and analysis. The information collected by the DEP pursuant to s. 253.0325(2) shall be available to the land manager and his or her assignee.

LAND MANAGEMENT PLAN EXECUTIVE SUMMARY

Lead Agency: Monroe County
Common Name of Property: Monroe County Conservation Lands
Location: Monroe County, Florida
Acquisition Program: Florida Forever – Florida Keys Ecosystem
Total acreage: 190 acres under lease*

Approximate Acreage Breakdown:

Land Cover**	Acreage	Percent Coverage
Pine rockland	2	1%
Rockland hammock	51	27%
Keys tidal rock barren	24	13%
Mangrove wetland	88	46%
Open water	19	10%
Freshwater wetland	2	1%
Disturbed	<u>4</u>	<u>2%</u>
Total	190*	100%

**Acreage is calculated using GIS, therefore may vary from acreage described in lease.*

***Land cover estimated using Monroe County habitat data and aerial photo interpretation.*

Lease / Management Agreement No.: 4549 – Florida Keys Ecosystem

Use: Single use for conservation and preservation

Management Responsibilities:	Monroe County, Lessee
Designated Land Use:	Conservation
Sublease(s):	None
Contract(s):	None
Encumbrances:	None
Type of Acquisition:	Florida Forever: Fee Simple
Unique Features:	Tropical hardwood hammock; Keys endemic listed species
Archaeological/Historical:	Archaeological sites, potential for unrecorded sites especially in hardwood hammocks
Management Needs:	Invasive exotic plant and animal control, imperiled species habitat maintenance, public use management
Acquisition Needs/Acreage:	Acquisition of adjacent properties within Florida Forever project boundary
Surplus Lands/Acreage:	None
Public Involvement:	A public hearing was held on April 25, 2019 pursuant to Section 259.032 Florida Statutes

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Appendix B –Florida Natural Areas Inventory Land Use / Land Cover Maps

Appendix C – Correspondence with the Division of Historical Resources

Appendix D – Letter of Compliance from Monroe County Planning Department

Appendix E – Information related to Advisory Committee and Public Hearing

MANAGEMENT PLAN FOR MONROE COUNTY CONSERVATION LANDS

I. GENERAL INFORMATION

The following management plan is submitted for review to the Board of Trustees of the Internal Improvement Trust Fund (Trustees) of the State of Florida, through the Department of Environmental Protection, Division of State Lands (DSL), in compliance with Lease No. 4549 and pursuant to Chapters 253 and 259, Florida Statutes (F.S.), Chapters 18-2 and 18-4, Florida Administrative Code (F.A.C.). Monroe County is the lead management agency for the subject parcels. The properties are managed for conservation of natural resources, including preservation of habitat for several wide-ranging imperiled species.

A. Land Acquisition

1. Location: The Monroe County Conservation Lands are located in the Florida Keys, Monroe County, Florida. The current total acreage of properties owned by the Trustees that are currently managed by Monroe County is approximately 190 acres. General locations and acreages are as follows (shown north to south):

Key Largo = 58 acres
Big Pine Key = 11.3 acres
Little Torch Key = 7.1 acres
Big Torch Key = 5.8 acres
Ramrod Key = 8.7 acres
Summerland Key = 17.3 acres
Upper & Lower Sugarloaf Keys = 33.7 acres
Big Coppitt & Rockland Keys = 48.2 acres

TOTAL = 190 acres

There are 501 parcels currently included in Monroe County's State Lands Management Lease 4549. The majority of the conservation lands managed by Monroe County are located in or adjacent to neighborhoods and are scattered over 90 linear miles, from Key Largo to Rockland Key.

Figure 1. General location of subject parcels in Key Largo (north section)
2018 aerial photo; subject parcels shown in red



Figure 2. General location of subject parcels in Key Largo (south section)
2018 aerial photo; subject parcels shown in red



Figure 3. General location of subject parcels in Lower Keys (Big Pine, Torch Keys, and Ramrod) 2018 aerial photo; subject parcels shown in red



Figure 4. General location of subject parcels in Lower Keys (Summerland and Upper Sugarloaf Keys) 2018 aerial photo; subject parcels shown in red



Figure 5. General location of subject parcels in Lower Keys (Lower Sugarloaf, Big Coppitt, and Rockland Keys) 2018 aerial photo; subject parcels shown in red



2. **Purchase:** The subject properties were purchased under the Florida Forever's Florida Keys Ecosystem acquisition program. Legal descriptions are included in Trustees' Lease Number 4549; a copy of the lease and full legal descriptions is available upon request from Monroe County or FDEP - Division of State Lands. Fee simple title for all parcels resides with the Trustees.

3. **Special Designations:** The Florida Keys are designated an Area of Critical State Concern. The Department of Economic Opportunity will be notified of this management plan. Additionally, all marine waters of Monroe County are designated as Outstanding Florida Waters (OFW) by the State of Florida. The subject properties are not located within an Aquatic Preserve.

B. Proximity to Other Public Properties: The subject parcels are near or contiguous to a large number of public conservation lands. Additionally, the waters surrounding the Florida Keys are designated as the Florida Keys National Marine Sanctuary. A list of other public conservation lands is found in Table 1.

Table 1. Conservation Lands in Close Proximity to Monroe County Conservation Lands

Upper Keys:

Crocodile Lake National Wildlife Refuge (Federal)
 Dagny Johnson Key Largo Hammock Botanical State Park (State)
 John Pennekamp Coral Reef State Park (State)
 Keys Wildlife and Environmental Areas (State)
 Florida Keys Overseas Heritage Trail (State)

Lower Keys:

Coupon Bight State Buffer Preserve (State)
 Great White Heron National Wildlife Refuge (Federal)
 National Key Deer Refuge (Federal)
 Keys Wildlife and Environmental Areas (State)
 Florida Keys Overseas Heritage Trail (State)

II. NATURAL AND CULTURAL RESOURCES

A. Physiography

1. Topography: Topographic changes within the Florida Keys are very small. Wetlands typically occur where the elevation is at or below 3 feet above sea level. The highest elevations in the Keys are found in the hardwood hammocks, which can be as much as 15 feet above sea level. These higher elevation hardwood hammocks are typically located on Key Largo.
2. Soils: Monroe County soils have been surveyed by the Natural Resources Conservation Service (NRCS). Appendix A includes map sections of the soil survey for the leased parcels.

B. Vegetation

The typical natural communities found within the Monroe County Conservation Lands include rockland hammock, pine rockland, mangrove swamp, and Keys tidal rock barren. In general, the current condition of the subject properties is “fair” due to their proximity to developed properties (and the disturbances created by the edge effect) and the recent (2017) disturbance created by Hurricane Irma. However, wetland habitats should be considered in “good” condition as they are more resilient to hurricane disturbances and are typically found farther away from developed properties.

In Florida Natural Areas Inventory’s (FNAI) “Guide to Natural Communities of Florida” (2010) the vegetative communities are described as follows:

1. Rockland Hammock (G2/S2) – is characterized as a hardwood forest on upland sites in regions where limestone is very near the surface and is often exposed. These forests have high species

diversity of native trees and shrubs with few herbaceous species present. Typical plant species include gumbo-limbo (*Bursera simaruba*), wild tamarind (*Lysiloma latisiliquum*), stoppers (*Eugenia spp*), pigeon plum (*Coccoloba diversifolia*), poisonwood (*Metopium toxiferum*), mahogany (*Swietenia mahagoni*), strangler and shortleaf figs (*Ficus aurea* and *Ficus citrifolia*), sea grape (*Coccoloba uvifera*), blackbead (*Pithecellobium spp*), and wild coffee (*Psychotria nervosa*). Rare species are abundant within rockland hammock.

2. Pine Rockland (G1/S1) – is characterized as an open canopy forest of south Florida slash pines (*Pinus elliottii* var. *densa*) with a patchy understory of tropical and temperate shrubs and palms, and a diverse herbaceous layer of mostly perennial species. Many of these herbaceous species are endemic to South Florida. There is very little soil development in pine rockland; outcrops of oolitic limestone are common and solution holes may be present. Typical plants include south Florida slash pine, silver palm (*Coccothrinax argentata*), Keys thatch palm (*Thrinax morrisii*), locustberry (*Byrsonima lucida*), long-stalked stopper (*Psidium longipes*), poisonwood, stoppers (*Eugenia spp*), bluestem grasses (*Andropogon spp* and *Schizachyrium spp*), muhly grass (*Muhlenbergia capillaris*), and Florida white-topped sedge (*Rhynchospora floridensis*).
3. Mangrove Swamp (G5/S4) – is characterized as dense, low forests occurring along relatively flat, intertidal and supratidal shorelines of low wave energy along southern Florida. The dominant plants of this community are red mangrove (*Rhizophora mangle*), black mangrove (*Avicennia germinans*), white mangrove (*Laguncularia racemosa*), and buttonwood (*Conocarpus erectus*).
4. Keys Tidal Rock Barren (G3/S3) – is characterized as a flat rockland in the supratidal zone with much exposed and eroded limestone and sparse cover of halophytic herbs and shrubs. Patches of low, salt-tolerant herbaceous species include sea oxeye (*Borrchia spp*), perennial glasswort (*Salicornia perennis*); saltwort (*Batis maritima*) shoregrass (*Monanthochloe littoralis*), saltgrass (*Distichlis spicata*), seashore dropseed (*Sporobolus virginicus*), and marsh fimbry (*Fimbristylis spadicea*). Buttonwood (*Conocarpus erectus*) is the dominant woody plant and is often found as a stunted, sprawling tree. Other woody species may include red mangrove (*Rhizophora mangle*), black mangrove (*Avicennia germinans*), white mangrove (*Laguncularia racemosa*), and christmasberry (*Lycium carolinianum*). At the transition to upland vegetation, buttonwood may be joined by a variety of shrubs and stunted trees of inland woody species. Rare plant species of the Keys tidal rock barren include joewood (*Jacquinia keyensis*) and Florida semaphore cactus (*Opuntia corallicola*).

Appendix B provides FNAI Land Use / Land Cover maps for the subject parcels.

C. Fish and Wildlife

The Monroe County Conservation Lands are habitat for a variety of fish and wildlife, including migratory birds. The following is a list of characteristic animal species found in each natural community.

Rockland hammock: tree snail (*Liguus fasciatus*), Schaus' swallowtail butterfly (*Papilio aristodemus ponceanus*), white-crowned pigeon (*Patagioenas leucocephala*), Key Largo woodrat (*Neotoma floridana smalli*), and Key Largo cottonmouse (*Peromyscus gossypinus*)

Pine rockland: Key deer (*Odocoileus virginianus clavium*), Key ringneck snake (*Diadophis punctatus acricus*), Eastern box turtle (*Terrapene carolina carolina*), Key Vaca raccoon (*Procyon lotor auspicatus*), and red-shouldered hawk (*Buteo lineatus*)

Mangrove swamp: mangrove water snake (*Nerodia clarkii compressicauda*), brown pelican (*Pelecanus occidentalis*), white ibis (*Eudocimus albus*), osprey (*Pandion haliaetus*), bald eagle (*Haliaeetus leucocephalus*), Key Vaca raccoon, and a variety of shorebirds, herons, and egrets

Keys tidal rock barren: marsh snail, spiders, fiddler crabs, wading birds, and Key Vaca raccoon (*Procyon lotor auspicatus*).

Wildlife that may occur on or adjacent to the subject parcels includes the species listed in the "State and Federally Listed Species" section, below.

D. State and Federally Listed Species

The following listed species have been documented within the Florida Keys and, therefore, may occur on Monroe County Conservation Lands.

Listing Abbreviations:

Federal: *E* = endangered; *T* = threatened

State: *FE* = Federally endangered; *FT* = Federally threatened; *SE* = State Endangered; *ST* = State threatened; *SSC* = designated as species of special concern by FWC

Habitat Abbreviations: *C* = coastal (including beaches, mangroves, and Keys tidal rock barren); *H* = rockland hammock; *P* = pine rockland; *FW* = freshwater wetlands; *M* = margins (edges, roadsides, etc); *W* = wide ranging; *A* = aquatic

**** Indicates a species most likely to be present on Monroe County Conservation Lands based on staff observations**

Table 2. Listed species.

Common Name	Scientific Name	Federal Listing	State Listing	Habitat
REPTILES				
American alligator	<i>Alligator mississippiensis</i>	T	FT	C
American crocodile	<i>Crocodylus acutus</i>	T	FT	C
Key ringneck snake**	<i>Diadophis punctatus acricus</i>		ST	P, H
Eastern indigo snake	<i>Drymarchon couperi</i>	T	FT	W
Fl Keys mole skink	<i>Eumeces egregius egregius</i>		ST	W
Lower Keys brown snake	<i>Storeria victa</i>		ST	P, H
Rim rock crowned snake	<i>Tantilla oolitica</i>		ST	H, P
FISH				
Key silverside	<i>Menidia conchorum</i>		T	A
Mangrove rivulus	<i>Rivulus marmoratus</i>		S	A
Key blenny	<i>Starksia starcki</i>		S	A
BIRDS				
Snowy plover**	<i>Charadrius nivosus</i>		ST	C
Piping plover	<i>Charadrius melodus</i>	T	FT	C
Little blue heron**	<i>Egretta caerulea</i>		SSC	C
Reddish egret**	<i>Egretta rufescens</i>		SSC	C
Tricolored heron**	<i>Egretta tricolor</i>		SSC	C
American kestrel**	<i>Falco sparverius paulus</i>		ST	W
White-crowned pigeon**	<i>Patagioenas leucocephala</i>		ST	P, H
Roseate spoonbill	<i>Platalea ajaja</i>		ST	C
Least tern	<i>Sterna antillarum</i>		ST	C
Roseate tern	<i>Sterna dougallii</i>	T	FT	C
MAMMALS				
Key Largo woodrat	<i>Neotoma floridana smallii</i>	E	FE	H
Key deer**	<i>Odocoileus virginianus clavium</i>	E	FE	P, H
Key rice rat	<i>Oryzomys palustris natator</i>	E	FE	C, FW
Key Largo cotton mouse	<i>Peromyscus gossypinus allapaticola</i>	E	FE	H
Lower Keys marsh rabbit	<i>Sylvilagus palustris hefneri</i>	E	FE	C
Manatee	<i>Trichechus manatus</i>	T	FT	C
SNAILS				
Stock Island tree snail	<i>Orthalicus reses reses</i>	T	E	H
BUTTERFLIES				
Miami blue butterfly	<i>Cyclargus thomasi bethunebakeri</i>	E	FE	W
Schaus' swallowtail	<i>Papilio aristodemus ponceanus</i>	E	FE	H
Bartram's Hairstreak	<i>Strymon acis bartrami</i>	E	FE	P
PLANTS				
Blodgett's wild mercury	<i>Argythamnia argothamnoides</i>	T	SE	P, H, C
Rockland orchid	<i>Basiphyllaea corallicola</i>		SE	P, H
Smooth strongbark	<i>Bouyeria cassinifolia</i>		SE	P
Rough strongbark	<i>Bouyeria radula</i>		SE	H
Locustberry**	<i>Byrsonima lucida</i>		ST	P
Few-flower holdback	<i>Denisophytum pauciflora</i>		SE	P
Myrtle-of-the-river	<i>Calyptranthes zuzygium</i>		SE	H
Small-flowered lily thorn**	<i>Catesbaea parviflora</i>		SE	P
Big Pine Partridge Pea**	<i>Chamaecrista lineata var. keyensis</i>	E	SE	P
Wedge spurge	<i>Chamaesyce deltoidea</i>	E	SE	P
Garber's spurge	<i>Chamaesyce garberi</i>	T	SE	P

Porter's broad-leaved spurge	<i>Chamaesyce porteriana</i>		SE	P, H
Common Name	Scientific Name	Federal Listing	State Listing	Habitat
Yucatan flymallow	<i>Cienfuegosia yucatanensis</i>		SE	C
Christmas berry**	<i>Crossopetalum ilicifolium</i>		ST	P
Rhacoma**	<i>Crossopetalum rhacoma</i>		ST	P, H
Cupania**	<i>Cupania glabra</i>		SE	H
Varnishleaf	<i>Dodonaea elaeagnoides</i>		SE	H, M
Milkbark**	<i>Drypetes diversifolia</i>		SE	H
Redberry stopper	<i>Eugenia confusa</i>		SE	H
Red stopper	<i>Eugenia rhombea</i>		SE	H
Princewood**	<i>Exostema caribaeum</i>		SE	H
Lignumvitae	<i>Guaiacum sanctum</i>		SE	H
False boxwood**	<i>Gyminda latifolia</i>		SE	H
Manchineel**	<i>Hippomane mancinella</i>		SE	H
White ironwood	<i>Hypelate trifoliata</i>		SE	H
Florida Keys indigo	<i>Indigofera trita ssp. scabra</i>		SE	C
Skyblue clustervine**	<i>Jacquemontia pentanthos</i>		SE	P, H
Sand flax	<i>Linum arenicola</i>	E	SE	P
Wild dilly**	<i>Manilkara jaimiqui</i>		ST	H
Semaphore cactus	<i>Consolea corallicola</i>	E	SE	C
White passionflower	<i>Passiflora multiflora</i>		SE	H
Pisonia**	<i>Pisonia rotundata</i>		SE	P, H
Bahama wild coffee**	<i>Psychotria ligustrifolia</i>		SE	H
Swartz's snoutbean**	<i>Rhynchosia swartzii</i>		SE	H
Bahama maidenbush	<i>Savia bahamensis</i>		SE	P, M
Pride-of-Big-Pine	<i>Strumpfia maritima</i>		SE	C
Pineland pencil flower	<i>Stylosanthes calcicola</i>		SE	P
Mahogany**	<i>Swietenia mahagoni</i>		ST	H
Florida thatch palm**	<i>Thrinax radiata</i>		SE	H
Pearl berry**	<i>Vallesia antillana</i>		SE	H

E. Water Resources

All marine waters within the Florida Keys are designated as Outstanding Florida Waters and are classified as Class III waters by the DEP. Class III waters are designated for recreation and for the propagation and maintenance of healthy, well-balanced populations of fish and wildlife.

F. Beaches and Dunes

There are currently no beaches or dunes contained within the leased parcels.

G. Swamps, Marshes and Other Wetlands

The majority of the wetlands occurring on Monroe County Conservation Lands are tidal wetlands. Tidal wetlands include mangrove wetlands, buttonwood wetlands, and saltmarsh wetlands. Freshwater wetlands are rare in the Keys and, as such, all freshwater wetlands are important resources. The freshwater wetlands that may be found within the leased areas occur on Big Pine Key and Key Largo and provide essential habitat for many listed species, including the Key deer.

H. Unique Natural Features and Outstanding Native Landscapes

There are no unique natural features or outstanding native landscapes within the leased parcels.

I. Mineral Resources

There are no known mineral resources, such as oil, gas or phosphate, on the subject parcels.

J. Archaeological and Historic Resources

A request for coordination was sent to the Division of Historical Resources (DHR) regarding the potential occurrence of archaeological and historic resources on the subject properties. The table below lists the four known resources identified by DHR within the lease area.

FMSF # *	Type	Culture or Period
MO00208	Historic Archaeologic Site	British 1763-1783; American 1821-1899
MO01261	Prehistoric Shell Midden	Glades 1000 BC – AD 1700
MO02109	Building remains - homestead	20 th century American
MO03433	Linear resource	20 th century American

**FMSF = Florida Master Site File*

The County will continue to coordinate with DHR to identify these resources, especially related to earth-moving restoration projects. See Appendix C for more information.

K. Location and Identification of Unknown Resources

Monroe County will coordinate with DHR and FNAI to identify resources of interest. Rare plant and animal species occurrences observed by Monroe County staff will be reported to FNAI.

III. USE OF THE PROPERTY

A. Description of Past Uses

All of the subject parcels are vacant. However, some parcels have been historically impacted by development activities including clearing, dredging and filling, and the creation of mosquito ditches. Additionally, illegal activities such as dumping and encroachments from adjacent residences may occur on a few parcels but these issues will be addressed as they are discovered.

B. Designated Use of the Property

The subject properties were purchased by the State of Florida's Florida Forever program for conservation purposes. The purpose of the acquisition of the properties was to protect the native habitats of the Florida Keys.

The use of the subject properties is constrained by the following legislative or executive directives:

Chapter 259.032, Florida Statutes

- (1) ...it is the Legislature's intent that lands acquired for conservation and recreation purposes be managed in such a way as to protect or restore their natural resource values, and provide the greatest benefit, including public access, to the citizens of this state.
- (3) Lands acquired for conservation and recreation purposes shall be for use as state-designated parks, recreation areas, preserves, reserves, historic or archaeological sites, geologic or botanical sites, recreational trails, forests, wilderness areas, wildlife management areas, urban open space, or other state-designated recreation or conservation lands; or they shall qualify for such state designation and use if they are to be managed by other governmental agencies or nonstate entities as provided for in this section.
- (7) All lands managed under this chapter and s. 253.034 shall be:
 - (a) Managed in a manner that will provide the greatest combination of benefits to the public and to the resources.
 - (b) Managed for public outdoor recreation which is compatible with the conservation and protection of public lands. Such management may include, but not be limited to, the following public recreational uses: fishing, hunting, camping, bicycling, hiking, nature study, swimming, boating, canoeing, horseback riding, diving, model hobbyist activities, birding, sailing, jogging, and other related outdoor activities.

Chapter 253.034, Florida Statutes

- (1) All lands acquired pursuant to chapter 259 shall be managed to serve the public interest by protecting and conserving land, air, water, and the state's natural resources, which contribute to the public health, welfare, and economy of the state. These lands shall be managed to provide for areas of natural resource based recreation, and to ensure the survival of plant and animal species and the conservation of finite and renewable natural resources. The state's lands and natural resources shall be managed using a

stewardship ethic that assures these resources will be available for the benefit and enjoyment of all people of the state, both present and future. It is the intent of the Legislature that, where feasible and consistent with the goals of protection and conservation of natural resources associated with lands held in the public trust by the Board of Trustees of the Internal Improvement Trust Fund, public land not designated for single-use purposes pursuant to paragraph (2)(b) be managed for multiple-use purposes.

- (b) “Single use” means management for one particular purpose to the exclusion of all other purposes, except that the using entity shall have the option of including in its management program compatible secondary purposes which will not detract from or interfere with the primary management purpose. Such single uses may include, but are not necessarily restricted to, the use of agricultural lands for production of food and livestock, the use of improved sites and grounds for institutional purposes, and the use of lands for parks, preserves, wildlife management, archaeological or historic sites, or wilderness areas where the maintenance of essentially natural conditions is important. All submerged lands shall be considered single-use lands and shall be managed primarily for the maintenance of essentially natural conditions, the propagation of fish and wildlife, and public recreation, including hunting and fishing where deemed appropriate by the managing entity.

Lease Agreement 4549 (BTIITF and Monroe County)

- (4) Purpose: Lessee shall manage the leased premises only for the conservation and protection of natural and historical resources and for resource based public outdoor activities and education which are compatible with the conservation and protection of these public lands, as set for in subsection 259.032(11), F.S., along with other related uses necessary for the accomplishments of this purpose as designated in the Management Plan required by paragraph 8 of this lease.

C. Compliance with the State Lands Management Plan

The proposed conservation use of the subject parcels complies with the following applicable policies of the Conceptual State Lands Management Plan:

- (A)(1) Manage state-owned lands in a manner that maintains a desirable vegetative cover while providing multiple-use benefits to the citizens of Florida.
- (A)(7) Encourage the establishment or reestablishment and management of plant species that are indigenous to specific sites.
- (A)(8) Encourage the protection of endangered and threatened plants, and plant and plant communities which serve as important

food sources and habitat for endangered and threatened animal species.

- (A)(9) Encourage the location and removal of noxious exotic plant species.
- (B)(1) Encourage the use of detailed soil surveys and interpretations in determining parcel-specific management recommendations.
- (B)(3) Encourage conservation practices in all management activities that will minimize erosion and sedimentation.
- (C)(1) Coordinate all proposals for changes in the character or use of state lands with the Division of Historical Resources in order to mitigate potential damage or disturbance of, or to preserve, archaeological and historical sites and properties.
- (C)(3) Prohibit the disturbance of archaeological and historical sites on state-owned lands, unless prior authorization has been obtained from the DHR.
- (D)(9) Require, at a minimum, that management activities on state-owned land comply with State water quality standards and classifications and their intent.
- (E)(1) Where significant fish and wildlife habitat exists, encourage those management activities which maintain a natural diversity of habitats and balanced fish and wildlife populations.
- (F)(1) Provide for the continued protection of threatened and endangered species habitat on state-owned lands.
- (F)(2) Encourage the location, identification, and protection of presently unknown areas of threatened and endangered species habitat located on state-owned lands.
- (F)(4) Encourage the re-establishment and restoration of endangered species and habitat.
- (J)(6) Require management activities on state-owned lands to protect wetlands and to maintain essentially natural conditions.
- (J)(7) Encourage the re-establishment of previously modified wetlands in state ownership, where practical.

D. Alternate Uses Considered

Other uses, such as recreational uses, have been considered. However, due to County funding and staffing constraints these other uses have been rejected at this time. In the future, the County may consider additional or alternative uses of the subject properties.

The following uses have been deemed incompatible uses of the subject properties (including, but not limited to): cattle grazing; citrus or agricultural use; first responder training; horseback riding; hunting; linear facilities; military training; primitive camping; off-road vehicle use; shooting sports park; and timber harvest.

E. Identification of Adjacent Parcels

Remaining private, undeveloped lands within the Florida Forever boundary that are immediately adjacent to the leased parcels should be the top priority for acquisition. Monroe County staff continues to work in close coordination with Division of State Lands staff to determine remaining priority acquisition areas.

F. Surplus

All of the properties included in the subject lease are currently being managed for the conservation purpose for which they were acquired. Due to the large number of listed and / or endemic species in the Keys and the important habitat that the subject lands provide, the County recommends that no portion of the Monroe County conservation lands be declared surplus.

G. Public Involvement

A public hearing was held on Thursday, April 25, 2019, in Marathon, Florida, pursuant to Section 259.032 Florida Statutes. See Appendix E for more information.

IV. MANAGEMENT ACTIVITIES

A. Management Accomplishments

This section addresses the status of the original management goals and objectives that were included in the County's 2008-2018 Land Management Plan. The following table includes the corresponding percent accomplished for each objective.

Monroe County 2008-2018 Management Plan Goals & Objectives	
Goals & Objectives	Percent Accomplished
<i>Goal 1. Remove invasive exotic vegetation</i>	
Objective 1. Survey managed parcels for the presence of invasive exotic vegetation indicating where the removal work will require a contractor due to the level of infestation	100%
Objective 2. Perform invasive exotic sweeps utilizing the Monroe County Invasive Exotic Technicians on those parcels not requiring contracted removal	100% - ongoing
Objective 3. Prioritize the list of sites that will require contracted removal of invasive exotic species so that as funding becomes available sites will have already been identified	100%
Objective 4. Submit yearly applications for grant funding to FWC – Invasive Plant Management Section - to aid in the removal of invasive exotic vegetation from leased parcels and other Monroe County conservation lands	100%
Objective 5. The Monroe County Land Steward shall continue to participate in the Florida Keys Invasive Exotic Task Force	100%

Objective 6. The Monroe County Land Steward and the Invasive Exotic Technicians shall maintain their herbicide applicator licenses by obtaining continuing education units (CEUs)	100%
<i>Goal 2. Control non-native or feral animals</i>	
Objective 1. Survey managed parcels for the presence of non-native or feral animals, including the location of any feeding stations	100% -ongoing
Objective 2. Coordinate with the Florida Fish and Wildlife Conservation Commission and local animal shelters / animal control, as appropriate, on the removal of non-native or feral animals from Monroe County conservation lands	100% - as needed
Objective 3. Eliminate any feeding stations found on Monroe County conservation lands	100% - as needed
<i>Goal 3. Remove existing solid waste</i>	
Objective 1. Survey managed parcels for the presence of solid waste	100% - ongoing
Objective 2. Contract with Monroe County Solid Waste Division or a private contractor on large scale cleanup activities on Monroe County conservation lands	100% - as needed
Objective 3. Use volunteer labor to conduct cleanup activities where appropriate	100%
<i>Goal 4. Prevent future dumping</i>	
Objective 1. Post “No Dumping” signs where appropriate	100% - as needed
Objective 2. Educate neighboring property owners regarding dumping on Monroe County Conservation Lands	100% - as needed
Objective 3. Identify roads, driveways or other means of vehicular access on Monroe County conservation lands. Place barricades across these areas as appropriate.	100% - as needed
Objective 4. Utilize fencing if required and deemed appropriate for the site (excluding Big Pine Key)	100% - as needed
<i>Goal 5. Address encroachments from neighboring property owners</i>	
Objective 1. Respond to inquiries from neighbors regarding the location of Monroe County conservation lands and property boundaries	100%
Objective 2. Continue resolving encroachment issues prior to State real estate closing	100%
Objective 3. When an encroachment is found, notify adjacent property owner and send a written request for the removal of the encroachment	100% -as needed
Objective 4. Coordinate with Monroe County Code Enforcement as needed to resolve encroachment issues	100% - as needed
<i>Goal 6. Restore degraded habitat</i>	
Objective 1. Identify sites in need of restoration work	100%
Objective 2. Identify potential funding sources for restoration work and apply for grant funding	80%
Objective 3. Provide a list of potential restoration sites to the Keys Environmental Restoration Fund (KERF).	0%
Objective 4. Conduct restoration activities as funding becomes available	100%
Objective 5. Monitor sites after restoration is complete for	100%

invasive exotic plant species	
<i>Goal 7. Coordinate acquisition and management of conservation lands with other appropriate agencies</i>	
Objective 1. Identify acquisition priorities and share this information with the Division of State Lands and the Monroe County Land Authority	100% - ongoing
Objective 2. Coordinate with the USFWS / FFWCC regarding management of properties adjacent to National Wildlife Refuges and Wildlife Environmental Areas	100% - ongoing
Objective 3. Coordinate with the USFWS National Key Deer Refuge regarding the fire hazard reduction / fire management of pine rockland habitat	100% - ongoing
Objective 4. Continue participation in the Florida Keys Invasive Exotics Task Force	100% -ongoing
Objective 5. Coordinate with the DHR to protect any archaeological or historical resources possibly occurring on Monroe County conservation lands	100% - as needed
<i>Goal 8. Promote education and outreach</i>	
Objective 1. Create an informational brochure for neighbors of Monroe County conservation lands which includes information related to invasive exotic plant species, dumping and other related issues	100%
Objective 2. Develop an informal volunteer program / network to encourage neighbors to assist in the maintenance / monitoring of managed sites	75%

B. Management Responsibilities

According to the lease, Monroe County is the sole managing agency for the subject parcels. The County currently employs a full-time Land Steward and Assistant Land Steward. The Land Steward and Assistant Land Steward coordinate invasive exotic removals, debris cleanups, native plantings and any other restoration activities that may occur on the subject properties. Additionally, the Land Steward coordinates with other agencies including the US Fish and Wildlife Service, the Florida Fish and Wildlife Commission, the Florida Department of Environmental Protection and other municipalities within the Keys on various land management issues. Monroe County will also coordinate with the Division of Historical Resources prior to conducting any activities that may adversely affect any archaeological or historical resources.

C. Management Needs, Challenges, and Desired Outcomes

Monroe County Conservation Lands are typically small, scattered sites within, or adjacent to, developed residential subdivisions. This situation presents unique management challenges due to the proximity of mostly residential uses. In general, the conservation lands need to be managed to support native species by providing suitable habitat that is free of invasive species and other man-made disturbances, such as encroachments and dumping.

The following management goals and objectives are for the current management period (2018-2028). All management goals and objectives are subject to adequate funding and staffing.

Goal 1. Remove invasive exotic vegetation

Objective 1. Survey managed parcels for the presence of invasive exotic vegetation noting where the removal work will require a contractor due to the level of infestation. Timeframe: **Short-term goal-** within 2 years; annually thereafter. Measure: survey completed.

Objective 2. Perform invasive exotic sweeps utilizing the County's contracted crew of Invasive Exotic Technicians on those parcels not requiring large scale initial treatment. Timeframe: annually / ongoing. Measure: number of acres covered per year.

Objective 3. Prioritize the list of sites that will require contracted removal of invasive exotic species so that as funding becomes available sites will have already been identified. Timeframe: within 6 months and then ongoing. Measure: list of sites needing restoration (include approximate acreage, target species, and level of infestation).

Objective 4. Submit yearly applications for grant funding to FWC – Invasive Plant Management Section - to aid in the removal of invasive exotic vegetation from leased parcels and other Monroe County conservation lands. Timeframe: annually / ongoing. Measure: annual proposals submitted to FWC.

Objective 5. The Monroe County Land Steward shall continue to participate in the Florida Keys Invasive Exotic Task Force. Timeframe: ongoing. Measure: active involvement in the Task Force.

Objective 6. The Monroe County Land Steward and Assistant Land Steward shall obtain / maintain their herbicide applicator licenses. Timeframe: **Short-term goal – within 2 years.** Measure: valid licenses.

Objective 7. Species included in the Florida Keys Invasive Exotic Task Force's EDRR (Early Detection Rapid Response) list shall be a priority for exotic removal work. Timeframe: ongoing. Measure: records of EDRR treatments.

Goal 2. Control non-native or feral animals

Objective 1. Survey managed parcels for the presence of non-native or feral animals, including the location of any feeding stations. Timeframe: within 6 months and then ongoing. Measure: survey completed.

Objective 2. Coordinate with the Florida Fish and Wildlife Conservation Commission and local animal shelters / animal control, as appropriate, on the removal of non-native or feral animals from Monroe County conservation lands. Timeframe: as needed. Measure: record of any removals.

Objective 3. Eliminate any feeding stations found on Monroe County conservation lands. Timeframe: immediate, as identified. Measure: number of feeding stations located and removed.

Objective 4. Monroe County shall continue to participate in the Python Patrol Network and python trainings. Timeframe: ongoing. Measure: number of trainings, events, or responses attended by County staff.

Goal 3. Remove existing solid waste

Objective 1. Survey managed parcels for the presence of solid waste. Timeframe: within 30 days of acquisition of a new parcel, then as needed. Measure: survey completed.

Objective 2. Contract with Monroe County Solid Waste Division or a private contractor on large scale cleanup activities on Monroe County conservation lands. Timeframe: ongoing, as needed. Measure: record of cleanups completed.

Objective 3. Use volunteer labor to conduct cleanup activities where appropriate. Timeframe: ongoing, as needed. Measure: record of volunteer activities.

Goal 4. Prevent future dumping

Objective 1. Post “No Dumping” signs where appropriate. Timeframe: within 60 days of identifying dumping sites. Measure: number of “No Dumping” signs posted.

Objective 2. Educate neighboring property owners regarding dumping on Monroe County Conservation Lands. Timeframe: ongoing, as needed. Measure: number of notices left for neighbors.

Objective 3. Identify roads, driveways or other means of vehicular access on Monroe County conservation lands. Place barricades across these areas as appropriate. Timeframe: **Long-term goal**. Measure: survey completed; number of barricades placed.

Objective 4. Utilize fencing if required and deemed appropriate for the site (excluding Big Pine Key and No Name Key due to Key deer habitat

restrictions). Timeframe: ongoing, as needed. Measure: record of any fences installed.

Goal 5. Address encroachments from neighboring property owners

Objective 1. Respond to inquiries from neighbors regarding the location of Monroe County conservation lands and property boundaries.

Timeframe: ongoing. Measure: number of responses to inquiries.

Objective 2. Continue resolving encroachment issues prior to State real estate closing. Timeframe: ongoing. Measure: number of encroachments resolved.

Objective 3. When an encroachment is found, notify adjacent property owner and send a written request for the removal of the encroachment. Timeframe: Within 30 days of initial discovery. Measure: number of notices sent.

Objective 4. Coordinate with Monroe County Code Enforcement as needed to resolve encroachment issues. Timeframe: As needed. Measure: number of cases referred to Code Enforcement.

Goal 6. Restore or enhance degraded habitat

Objective 1. Identify sites in need of restoration work. Timeframe: **Short-term goal** - survey within 2 years. Measure: survey completed.

Objective 2. Conduct restoration activities as funding becomes available. Timeframe: ongoing. Measure: number of restoration projects completed.

Objective 3. Monitor sites after completion of restoration work for the presence of invasive exotic plant species and the recruitment of desirable native plant species. Timeframe: follow-up at 3 months, six months, and then annually. Measure: record of follow-up treatments.

Goal 7. Coordinate acquisition and management of conservation lands with other appropriate agencies

Objective 1. Identify acquisition priorities and share this information with the Division of State Lands (DSL) and the Monroe County Land Authority (MCLA). Timeframe: ongoing. Measure: record of correspondence with DSL and the MCLA.

Objective 2. Coordinate with the USFWS / FFWCC and the Florida Park Service regarding management of properties adjacent to National Wildlife

Refuges, Wildlife Environmental Areas, and State Parks. Timeframe: ongoing. Measure: record of correspondence or meetings.

Objective 3. Continue participation in the Florida Keys Invasive Exotics Task Force. Timeframe: ongoing. Measure: active participation in the Task Force.

Objective 4. Coordinate with the DHR to protect any archaeological or historical resources possibly occurring on Monroe County conservation lands. Timeframe: ongoing, as needed. Measure: record of correspondence with DHR.

Goal 8. Minimize wildfire risk on Monroe County conservation lands

Objective 1. Coordinate with the USFWS National Key Deer Refuge and the Division of Forestry regarding the fire hazard reduction / fire management of pine rockland habitat. Timeframe: ongoing. Measure: record of correspondence, meetings, or fire hazard removal work.

Objective 2. Maintain existing fire breaks. Timeframe: biannually. Measure: record of maintenance work completed.

Objective 3. Reduce existing fuels within high hazard areas on Big Pine Key. Timeframe: ongoing. Measure: record of fuel reduction projects completed.

Goal 9. Promote education and outreach

Objective 1. Provide an informational brochure for neighbors of Monroe County conservation lands which includes information related to invasive exotic plant species, dumping and other related issues. Timeframe: brochure distributed as needed. Measure: number of brochures distributed.

Objective 2. Develop an informal volunteer program / network to encourage neighbors to assist in the maintenance / monitoring of managed sites. Timeframe: ongoing. Measure: record of correspondence.

Objective 3. Develop an informational brochure regarding wildfire hazard reduction techniques. Timeframe: within 3 years. Measure: brochure.

Goal 10. Maintenance or enhancement of imperiled species' habitat

Objective 1. Improve imperiled species' habitat by removing invasive exotic vegetation. **Short-term goal** – complete 5 acres of exotic plant

removal work within two years. Measure: number of invasive exotic removal projects / acres completed.

Objective 2. When native planting is required as part of a restoration project, include site appropriate native plant species that provide nectar or larval food sources for butterfly species and include site appropriate species that may be potential food sources for bird species. Timeframe: ongoing. Measure: record of native planting projects.

Objective 3. Provide Florida Natural Areas Inventory (FNAI) with data related to any rare species occurrence found on the subject properties. Timeframe: within 14 days of discovery. Measure: correspondence with FNAI.

Goal 11. Preserve and protect archeological and historical resources

Objective 1. Conduct annual monitoring of known sites (list provided by Division of Historical Resources). Timeframe: **Short-term goal** - within 2 years, then annually thereafter. Measure: survey completed.

Objective 2. Coordinate with Division of Historical Resources (DHR) prior to any earth moving activities, such as wetland restoration work, to ensure that no archeological or historic resources are impacted by the project. Timeframe: prior to any earth moving projects. Measure: record of correspondence with DHR.

Objective 3. At least one staff person from the Land Steward's office shall attend the State of Florida's Archeological Resource Management training. Timeframe: **Short-term goal** - within 2 years. Measure: record of attendance.

Objective 4. Survey newly acquired sites for potential archeologic or historic resources. Timeframe: within 6 months of acquisition of new site. Measure: record of survey.

Goal 12. Preserve and restore hydrologic resources

Objective 1. Identify wetland sites in need of restoration work. Restore degraded wetlands identified. Timeframe: **Long-term goal**. Measure: list of sites needing wetland restoration work; and list of restoration work accomplished.

Objective 2. Protect freshwater wetlands by identifying any located on the subject parcels. Timeframe: **Short-term goal** - within two years. Measure: create a GIS layer identifying the locations of any freshwater wetlands on the subject parcels.

D. Identification of Conflicting Adjacent Land Uses

Most of the leased parcels have no conflicting adjacent land uses since they are within or adjacent to low density residential areas. However, the proximity to residential areas does pose unique management challenges such as dumping and encroachment issues. These issues will be addressed as described previously.

E. Nonrenewable Natural and Cultural Resources

Since the subject properties will be managed for conservation purposes, there are no anticipated impacts to nonrenewable natural and cultural resources. However, prior to any ground-disturbing restoration activities the County will coordinate with the DHR to prevent damage to archaeological or historic sites. Additionally, the County will coordinate with FNAI regarding the locations of any rare plant or animal species.

Sustainable forest management practices, including prescribed fire, are not applicable to these small, scattered sites.

F. Description of Existing or Planned Uses

The current public use of the subject properties is limited due to either the remote location of the properties or lack of formal access. The planned use of the subject properties is conservation. This use will include habitat restoration (invasive exotic removal, solid waste removal, etc) as funding becomes available. As the manager of the conservation lands, the County is not proposing any development of facilities or improved public access. Any proposed improvements will be addressed in future management plans or in amendments to this plan.

1. Preservation / Protection of Natural Resources: The preservation and protection of natural resources is a primary goal of the proposed “conservation” use of the subject properties. Prior to any management activities occurring on the parcels the County will conduct an in-depth site visit to ensure that natural resources will not be negatively impacted by the proposed activity. Site observations will include the location of any listed plant species so that they may be avoided during the project. Management activities may include, for instance, invasive exotic plant removal, wetland restoration, or solid waste removal.
2. Habitat Restoration: The County will create a list of potential restoration sites that will include sites in need of habitat restoration activities such as invasive exotic plant removal or wetland restoration. The County will conduct restoration activities as funding becomes available. After a restoration project is completed, the area will be monitored for the presence of any invasive exotic vegetation.
3. Non-native Plant and Animal Control: The County will inspect the subject properties for the presence of non-native plants and animals. Any observations of non-natives will be recorded and a list of sites needing attention

will be developed. The County will continue to participate in the Florida Keys Invasive Exotic Task Force and apply for grants from the FWC's Invasive Plant Management Section for the removal of invasive exotic plant species. Animal control efforts will be coordinated with local animal shelters, FWC, or the USFWS Refuge staff as necessary.

4. Resource Management Activities: Resource management activities include invasive exotic plant removal, wetland restoration, native plantings, and control of non-native animals. All resource management activities are based on available funding and staff.

5. Monitoring and Protection of Surface and Groundwater: The parcels that contain wetlands will be managed to maintain, enhance, or restore the resource.

G. Prevention of Soil Erosion

Due to the fact that the Keys exhibit only slight elevational changes and much of the substrate is consolidated limestone, there is little threat of soil erosion. However, any soil disturbance will be evaluated on a site specific basis and potential impacts will be addressed.

H. Arthropod Control Plan

An arthropod control plan has not been included due to the fact that the Florida Keys Mosquito Control is the responsible agency within the area of the leased parcels.

I. Cost Estimates for Management Activities

Resource Management Costs (*in general*): Monroe County's Land Acquisition Management Master Plan (2006) provides the following rough estimates for initial and annual maintenance costs per acre of conservation lands in the Florida Keys*

Natural Community Type	Initial annual costs / acre (1-3 years)	Subsequent annual maintenance costs / acre
Mangrove	\$200	\$20
Hammock	\$600	\$100
Pineland	\$1200	\$300

**Assumes assistance from Non-governmental Organizations and some grant support.*

Assumes low level of visitation.

Mangrove, hammock and pineland categories are aggregated land cover type groupings that include other land cover types.

The subject properties comprise approximately 10 percent of the total lands managed as Monroe County Conservation Lands (190 State owned acres out of a total of approximately 1,890 acres managed by the Land Steward). Therefore, the following cost estimates were calculated as 10 percent of the County's current

Land Stewardship budget. The Monroe County Land Steward's budget for the management of all Monroe County Conservation Lands (the majority of which are County-owned) is funded through Monroe County's Land Management and Environmental Restoration Fund, a non-ad valorem source funded by environmental permitting mitigation fees collected by the County.

The leased properties are managed for conservation and, therefore, do not generate any income or revenue.

**Monroe County Land Management Plan Cost Estimates for
Parcels included in Lease 4549**

(10 percent of the total land management budget for all Monroe County Conservation Lands)

	Annual Expenditure*
Resource Management	
➤ Exotic Species Control	\$22,000
➤ Prescribed Burning	\$0
➤ Cultural Resource Management	\$1,000
➤ Timber Management	\$0
➤ Hydrological Management	\$0
➤ Other (Restoration, Enhancement, Surveys, Monitoring, etc)	\$5,000
SUBTOTAL	\$28,000
Staffing	
➤ Two full-time positions	\$14,000
Capital Improvements	\$0
Visitor Services / Recreation	\$0
Law Enforcement (<i>Monroe Co Sheriff's Office</i>)	\$0
TOTAL	\$42,000

**Maximum expected one year expenditure*

J. Compliance with Monroe County Comprehensive Plan

This Land Management Plan has been found to be in compliance with the Monroe County Comprehensive Plan. Please see Appendix D for more information.

K. Interpretive Facilities / Infrastructure

There are currently no interpretive facilities, capital facilities, or infrastructure proposed for the leased properties. Any future proposals will be addressed as either an amendment to this management plan or included in a future management plan.

L. Current Project Resources

Monroe County employs a Land Steward and Assistant Land Steward whose duties include the management of the subject parcels. Additionally, funding from the FWC Invasive Plant Management Section has enabled the County to hire contractors to treat invasive exotic plants on County conservation lands on an annual basis. Available funding for management activities also includes environmental mitigation fees collected through the Monroe County permitting process (Monroe County Environmental Land Management and Restoration Fund). Available equipment currently includes two Monroe County pickup trucks and various hand tools. The Monroe County Solid Waste Department provides assistance as needed with removal and disposal of trash and debris from County conservation lands.

M. Law Enforcement

The Monroe County Sheriff's Office and the Florida Fish and Wildlife Conservation Commission have the authority to enforce regulations at the subject properties. Additionally, the Monroe County Code Enforcement Department provides assistance with minor issues related to dumping and encroachments.

APPENDIX A

*Maps of Leased Parcels
State Lands Lease No. 4549*

KEY TO SOIL SURVEY CODES

2	Pennekamp
3	Matecumbe
4	Rock Outcrop
5	Islamorada
6	Key Largo
7	Udorthents
8	Rock Outcrop
9	Lignumvitae
11	Urban Land
12	Rock Outcrop
13	Key Vaca
15	Cudjoe
16	Bahia Honda
17	Key West
18	Beaches
19	Saddlebunch

KEY TO FLUCCS CODES

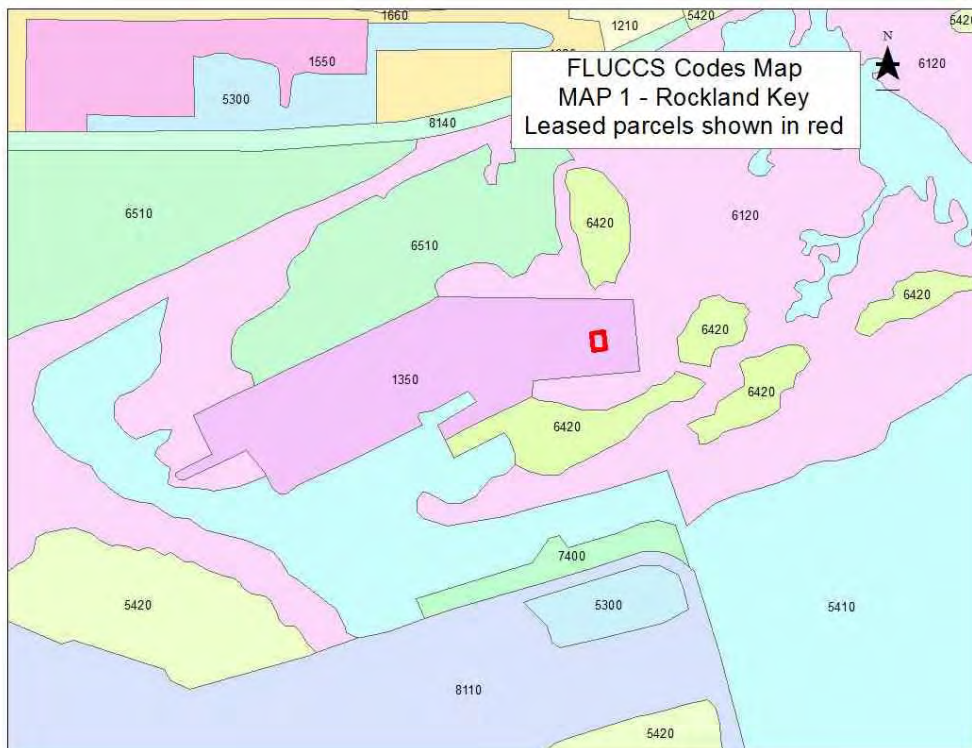
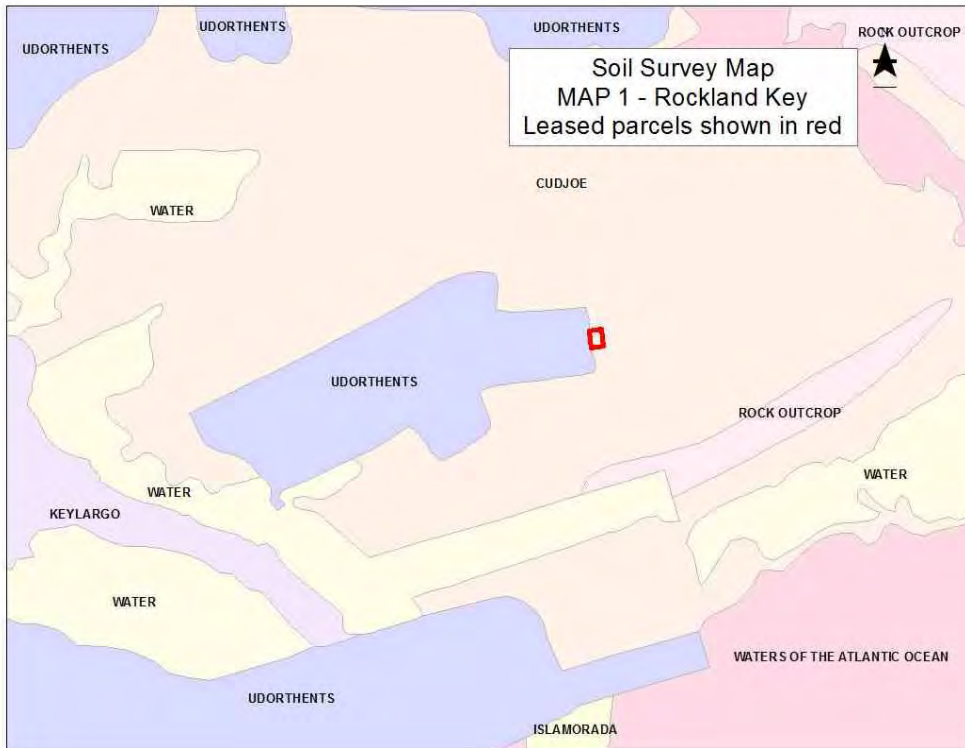
1110	residential low
1180	rural residential
1210	residential medium
1220	residential medium – mobile home
1310	residential high
1320	residential – mobile home
1330	residential high
1340	residential high – high rise
1350	residential high
1400	urban commercial
1411	shopping center
1423	commercial
1480	Cemetary
1700	institutional
1710	institutional – educational
1840	marina
1850	park
1900	upland forest
1920	upland forest
3200	upland shrub
3220	coastal scrub
4110	pinelands
4200	upland hardwood forest
5120	canals
5300	water

KEY TO FLUCCS CODES (cont.)

5410	water; embayments
5420	embayment
5710	Atlantic Ocean
6120	mangrove swamp
6420	saltwater marsh
6510	tidal flats
7430	spoil area
8115	airstrip
8140	road; highway
8310	electrical power facility

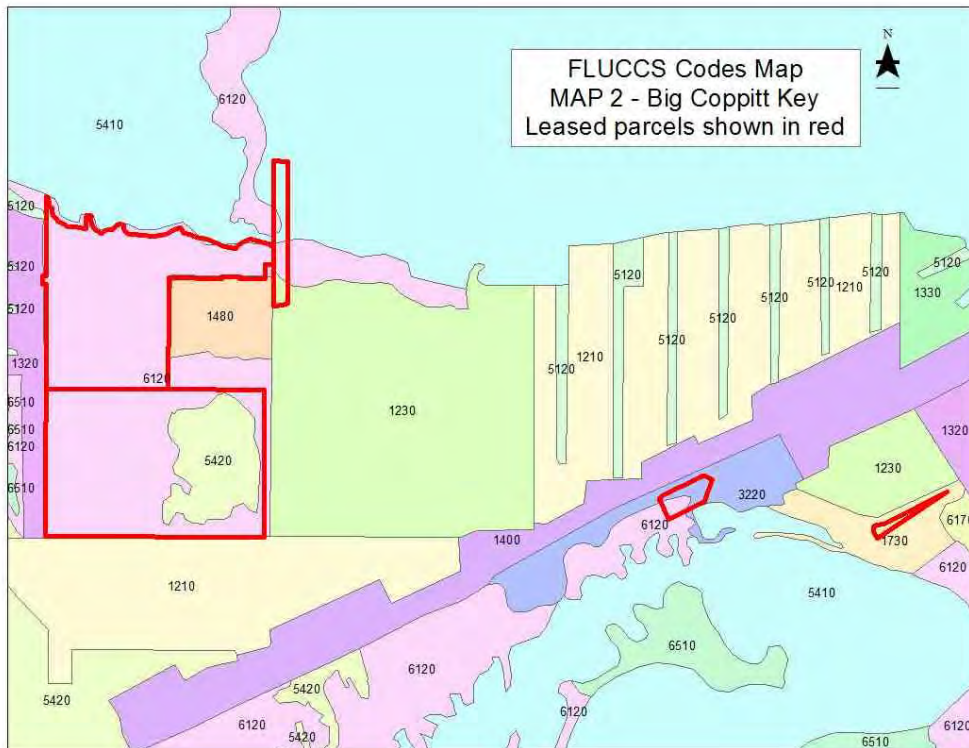
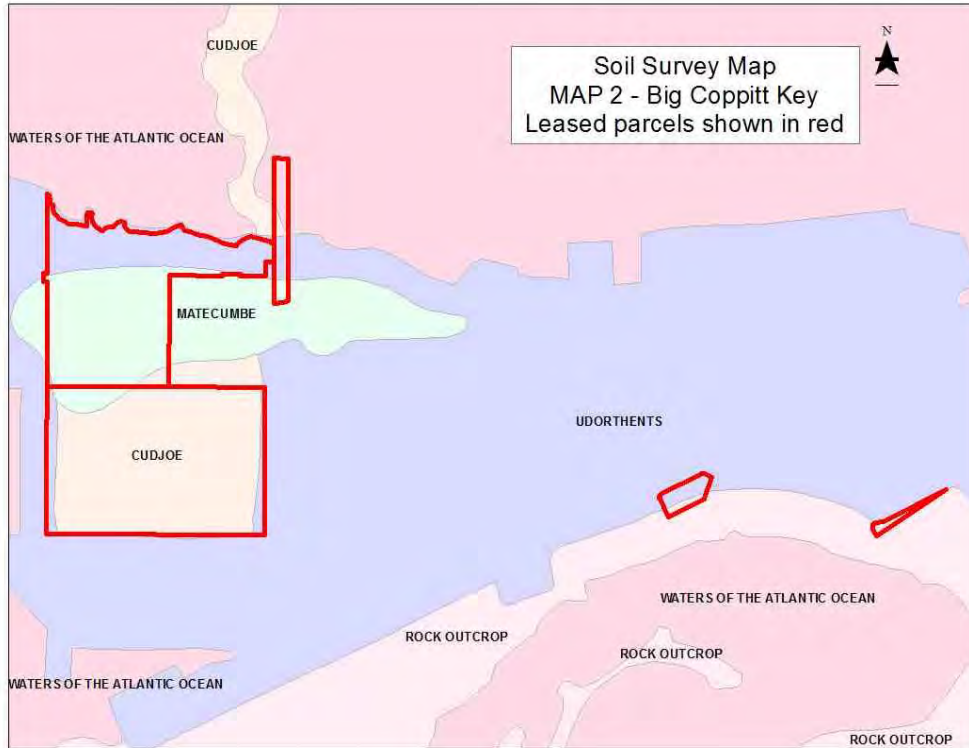
MAP 1
Rockland Key
Leased parcels shown in red





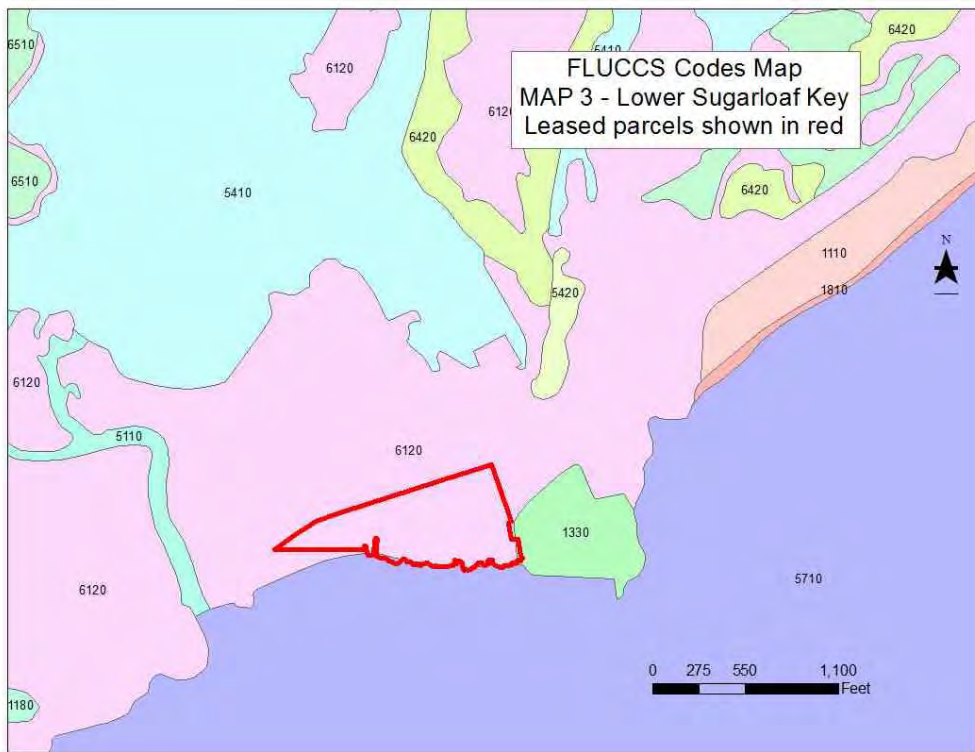
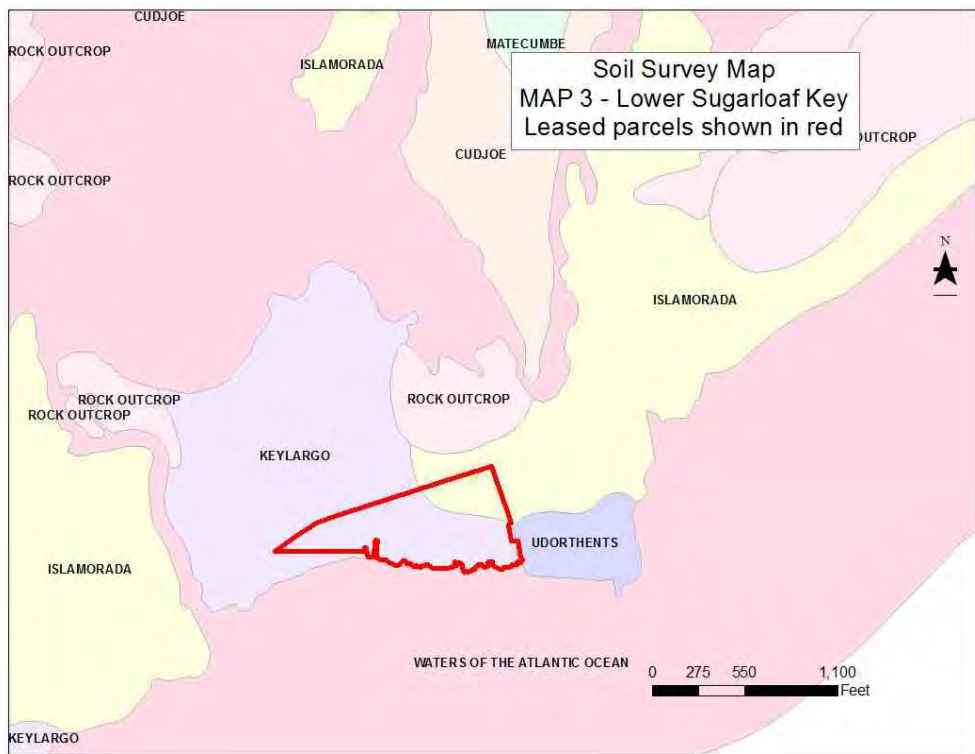
MAP 2
Big Coppitt Key
Leased parcels shown in red





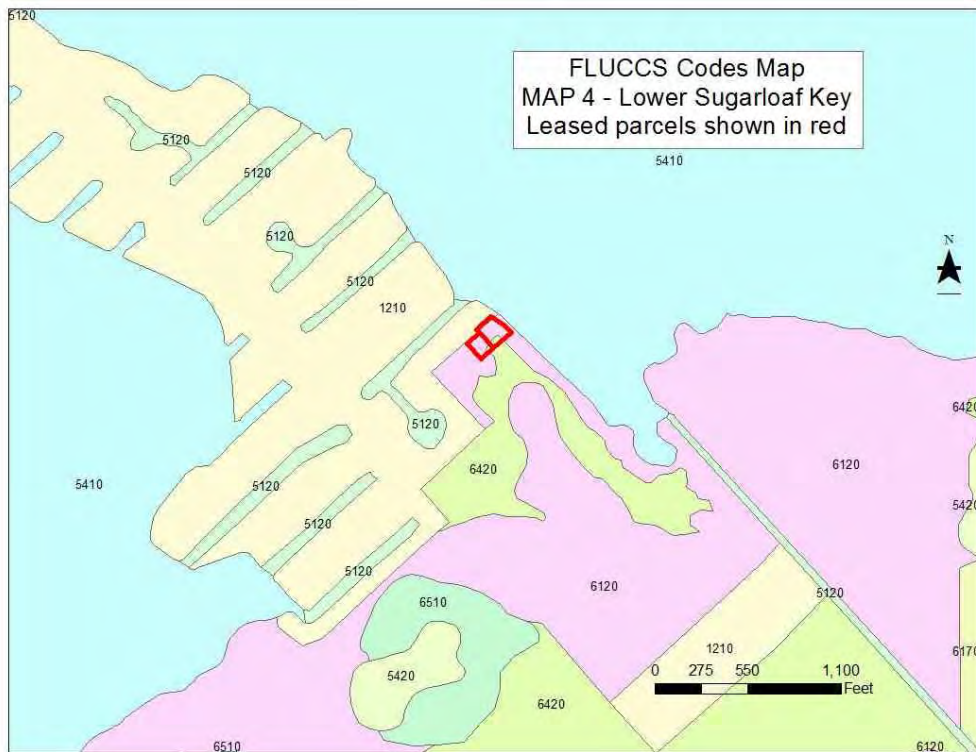
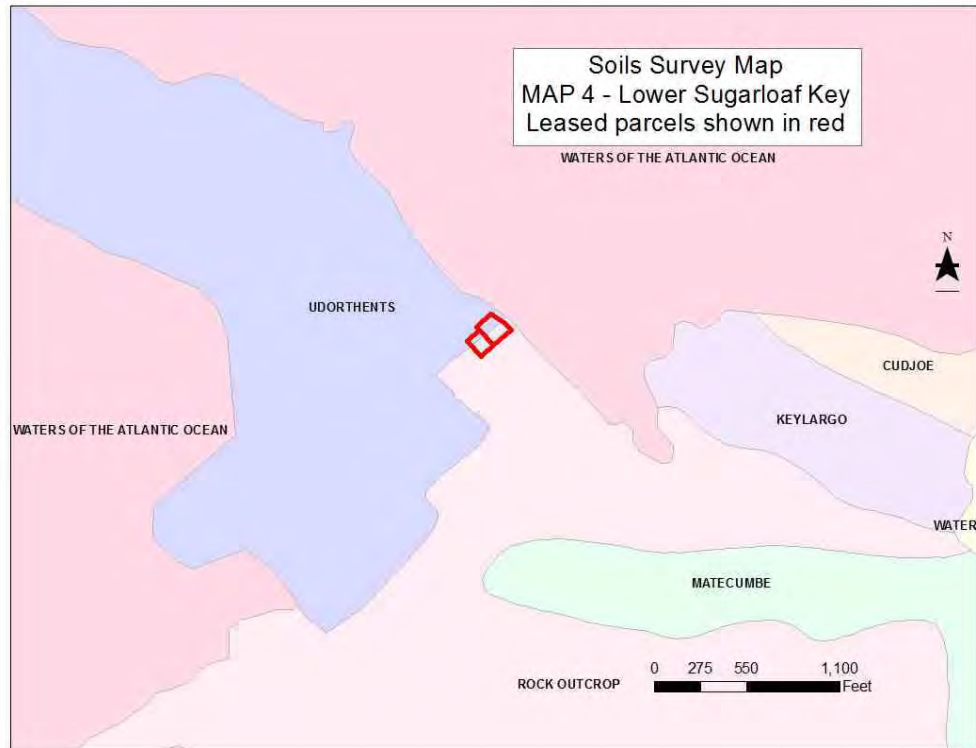
MAP 3
Lower Sugarloaf Key
Leased parcels shown in red





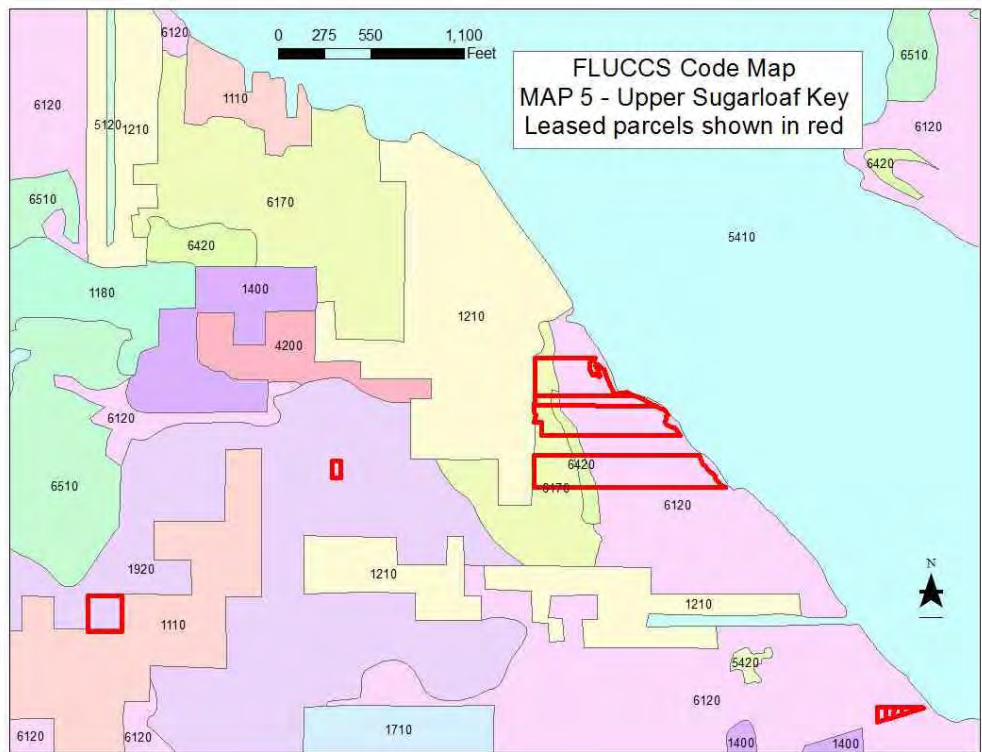
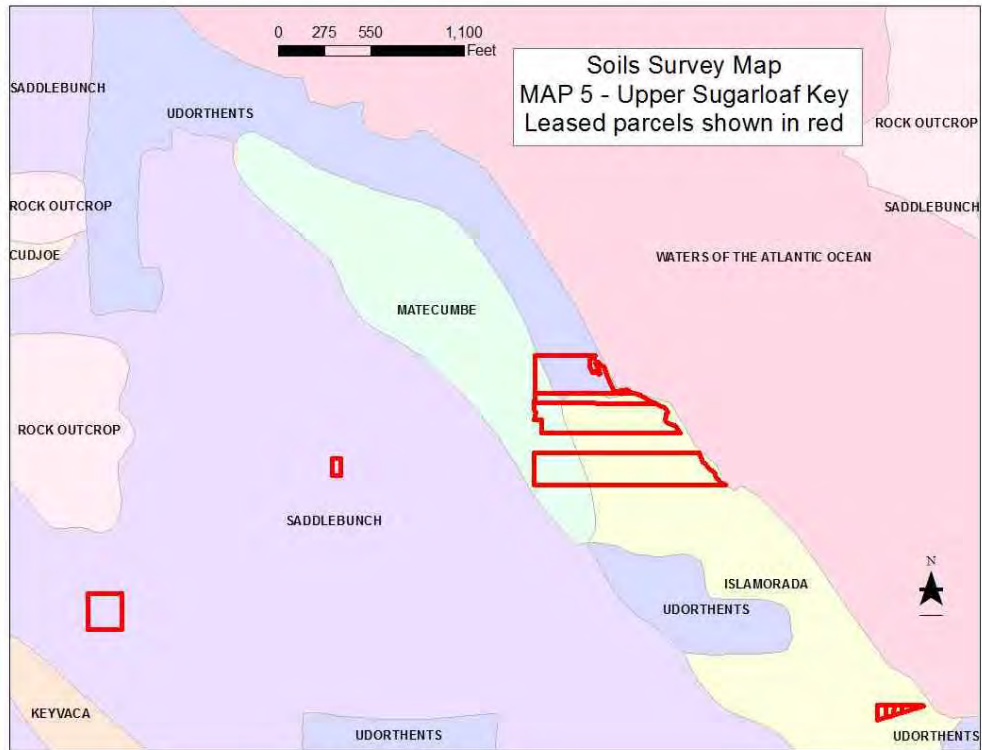
MAP 4
Lower Sugarloaf Key
Leased parcels shown in red





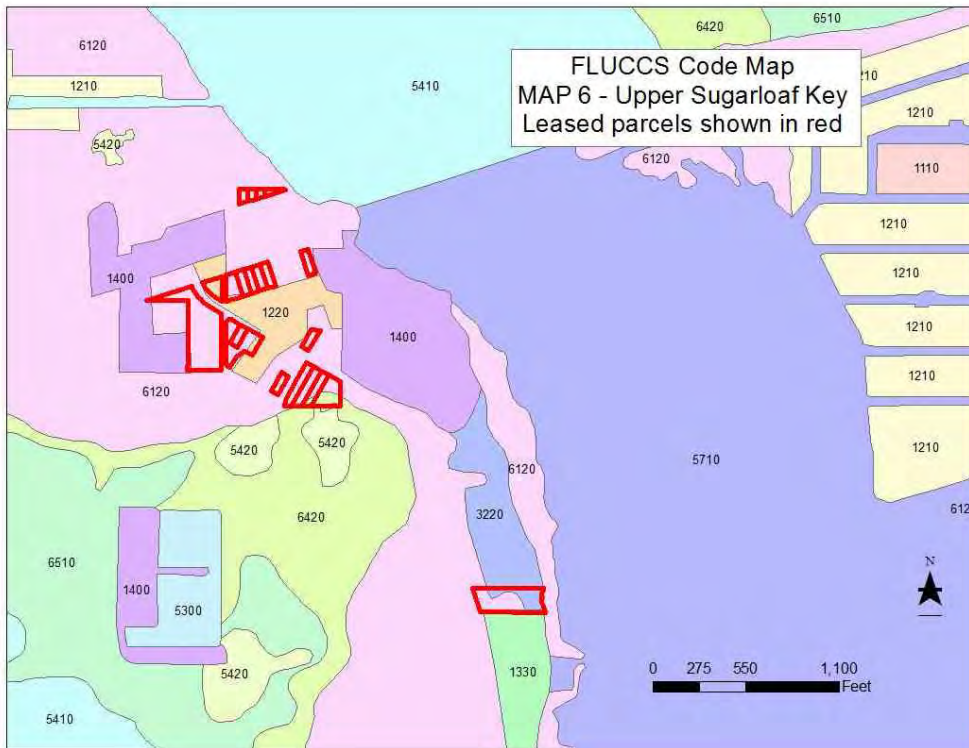
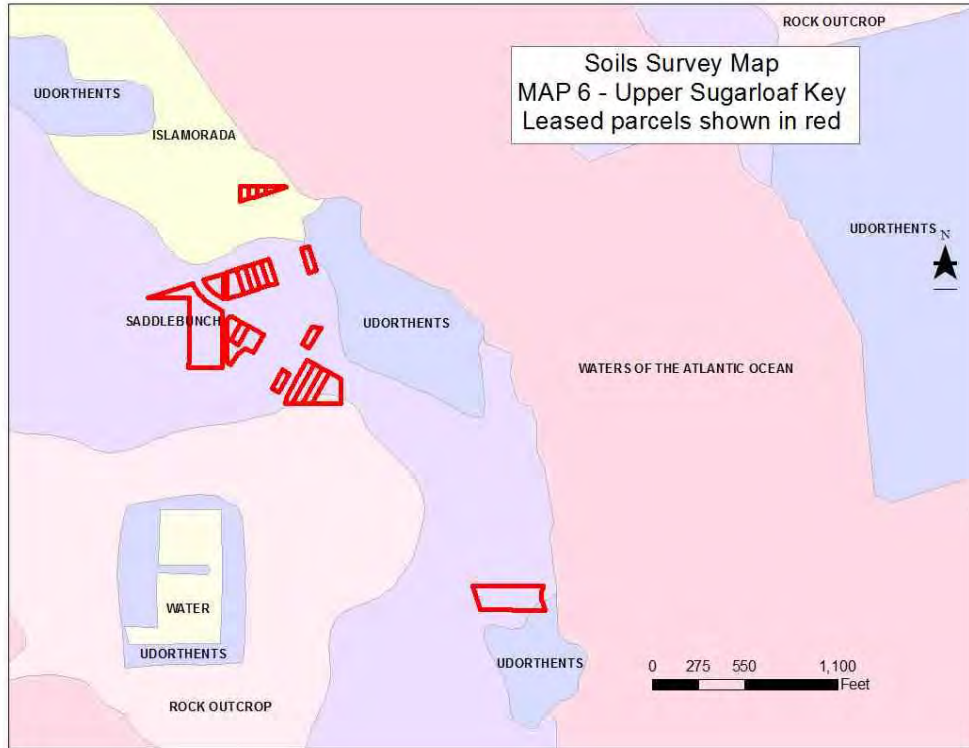
MAP 5
Upper Sugarloaf Key
Leased parcels shown in red





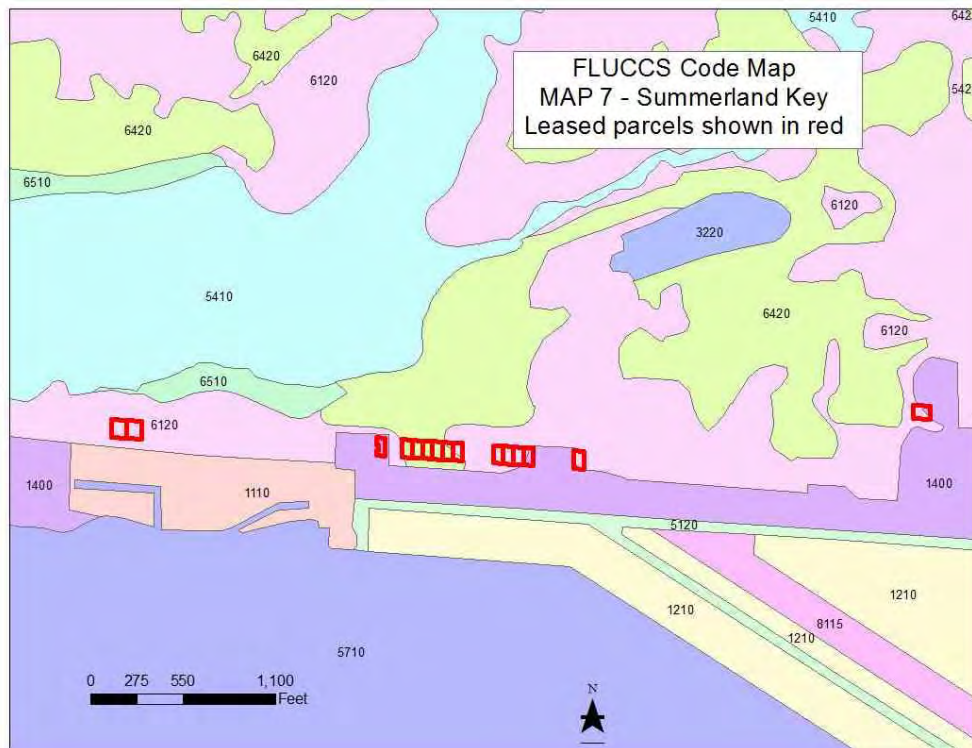
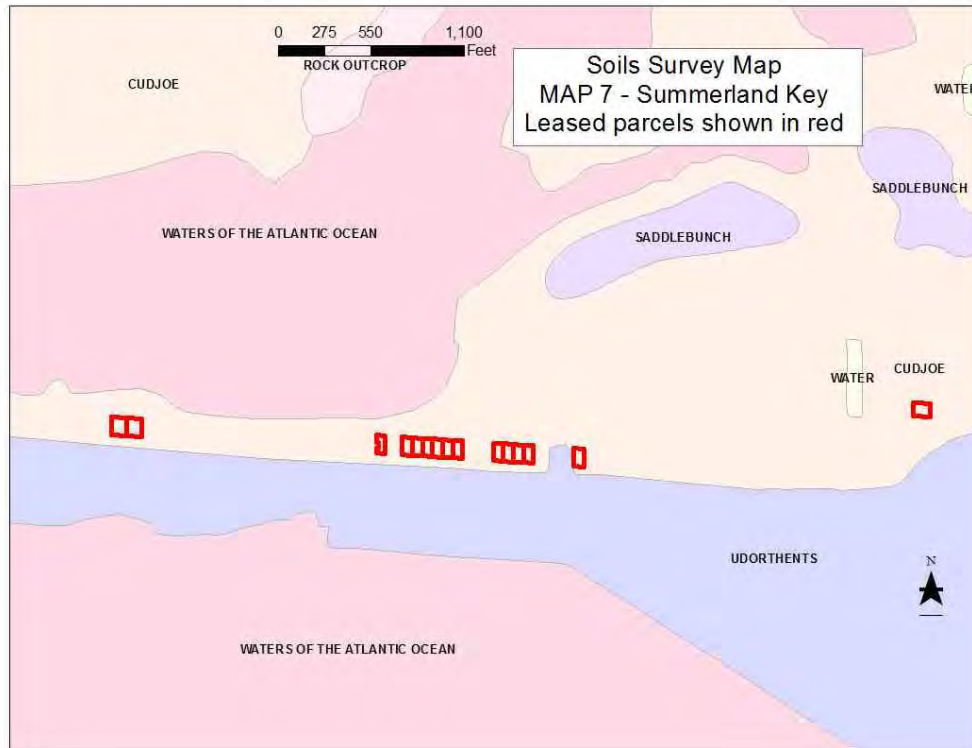
MAP6
Upper Sugarloaf Key
Leased parcels shown in red





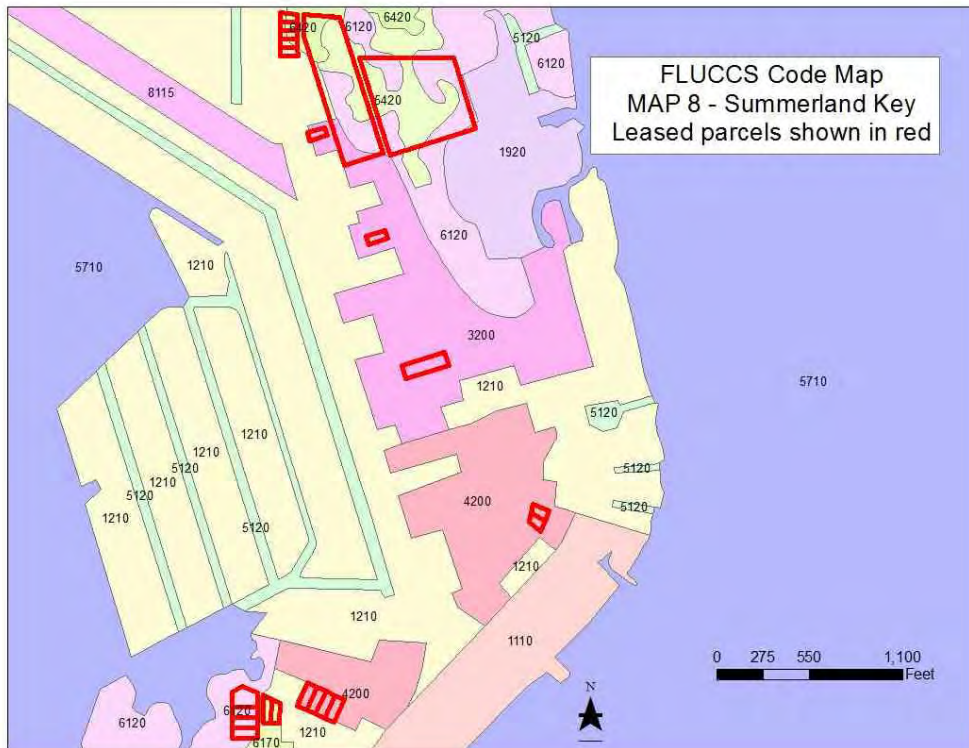
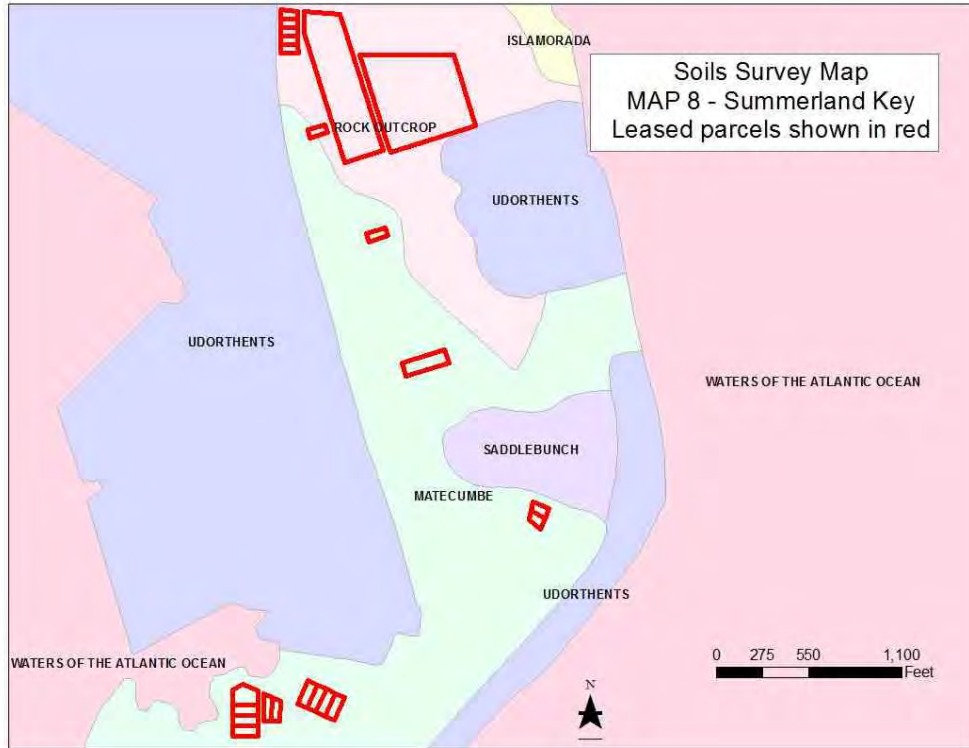
MAP 7
Summerland Key
Leased parcels shown in red





MAP 8
Summerland Key
Leased parcels shown in red

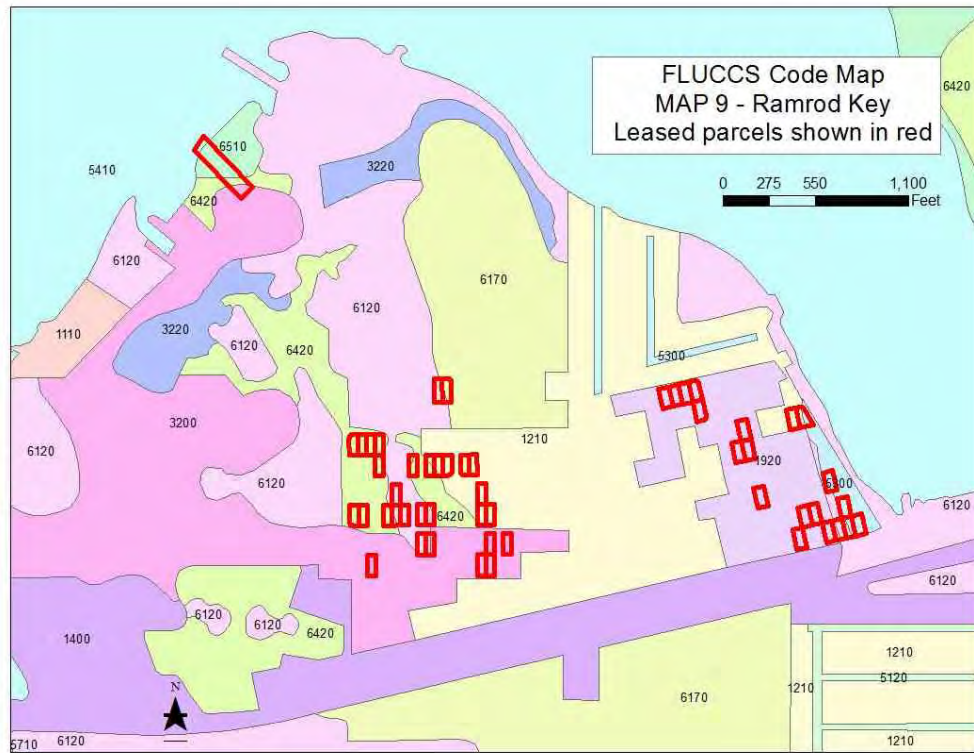
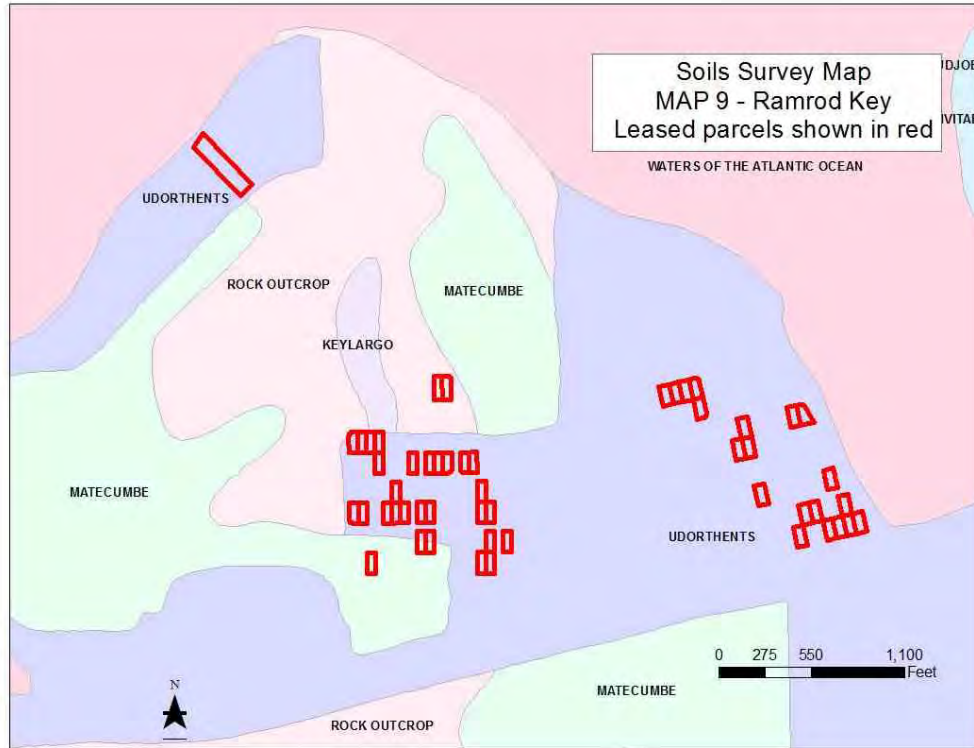






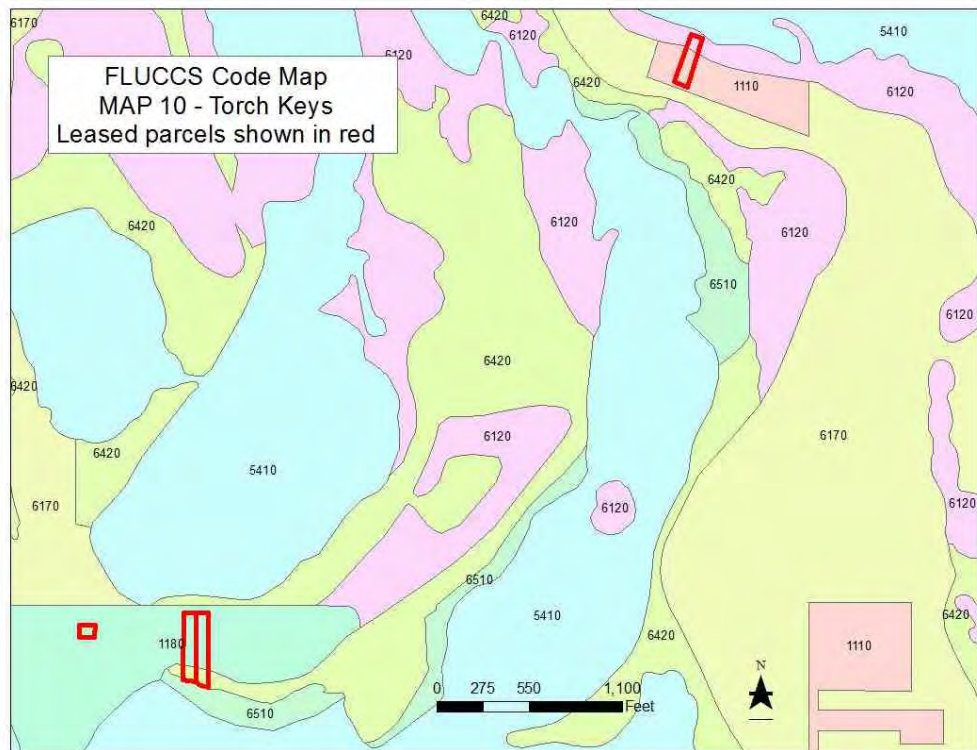
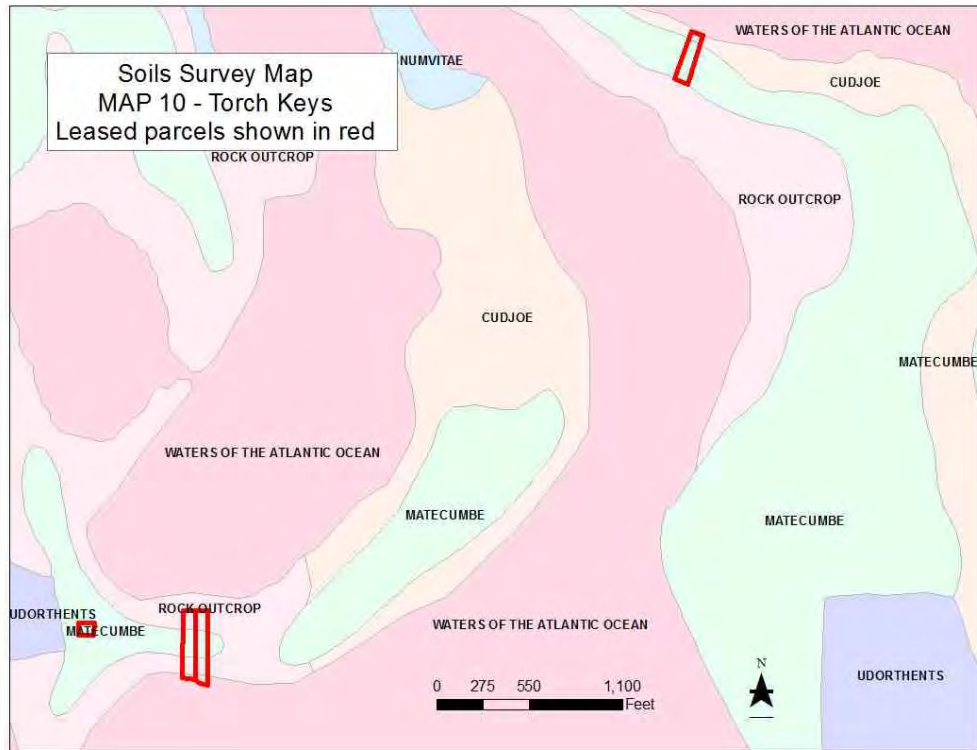
MAP 9
Ramrod Key
Leased parcels shown in red





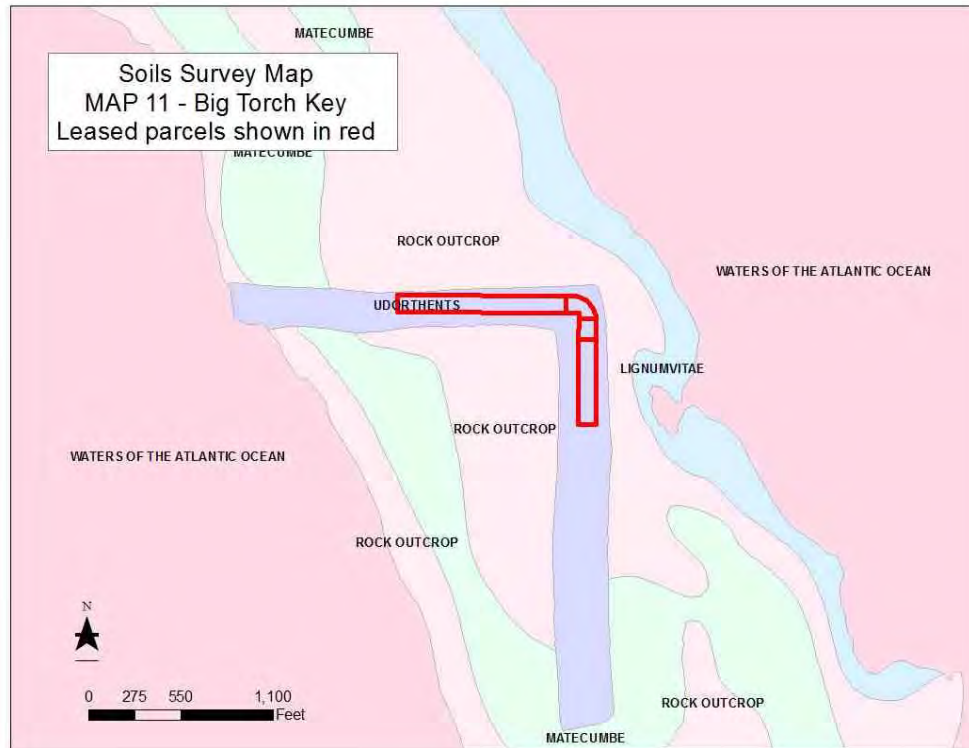
MAP10
Torch Keys
Leased parcels shown in red





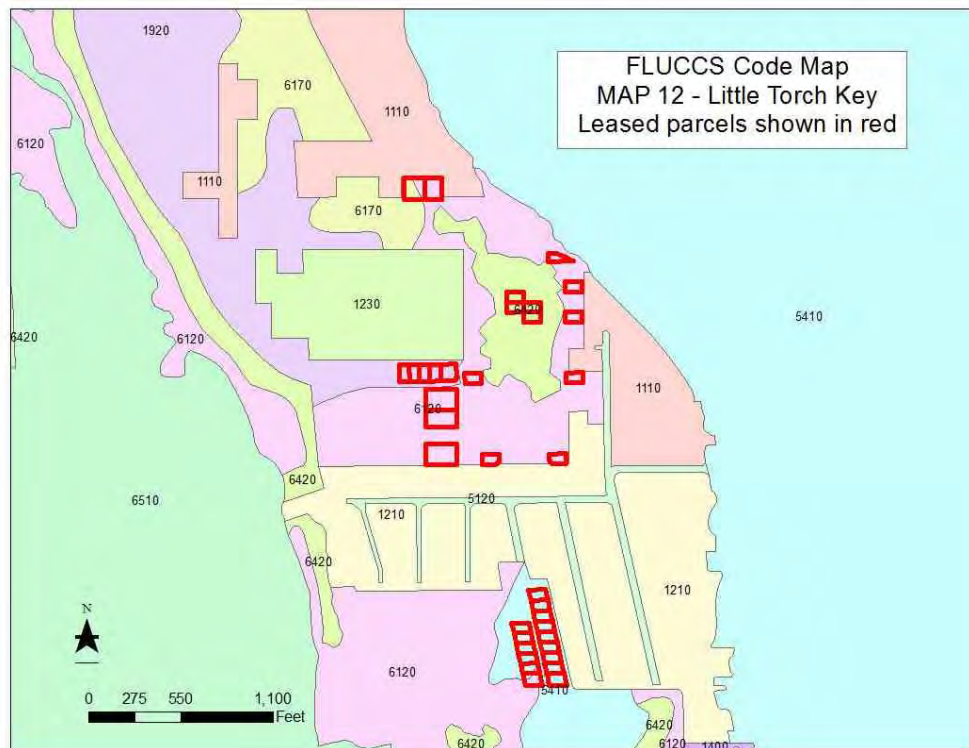
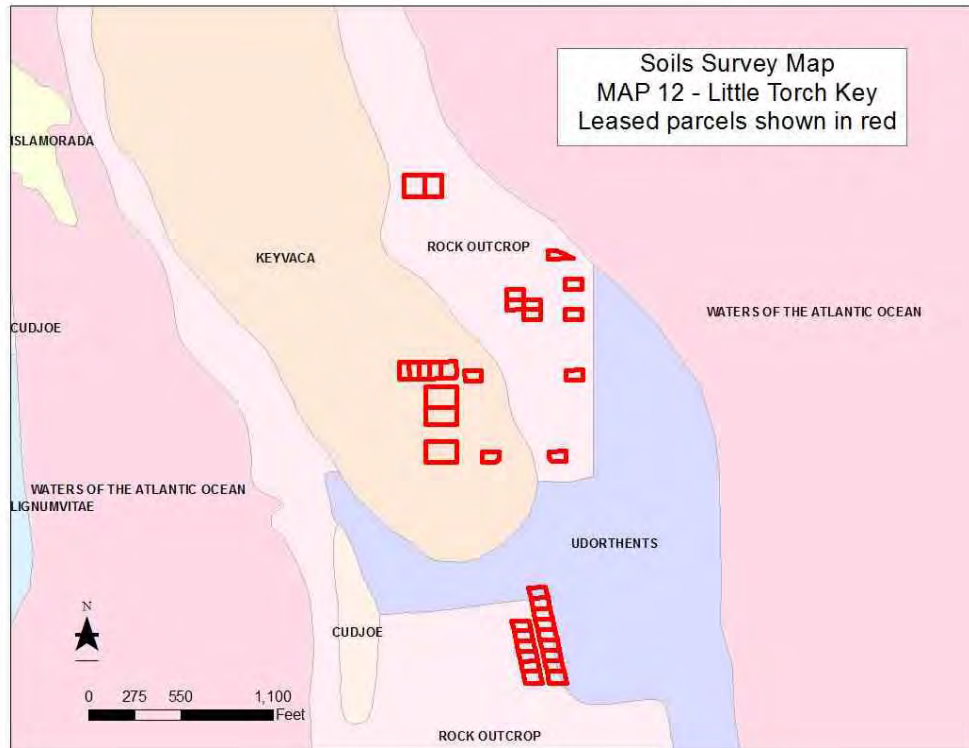
MAP11
Big Torch Key
Leased parcels shown in red





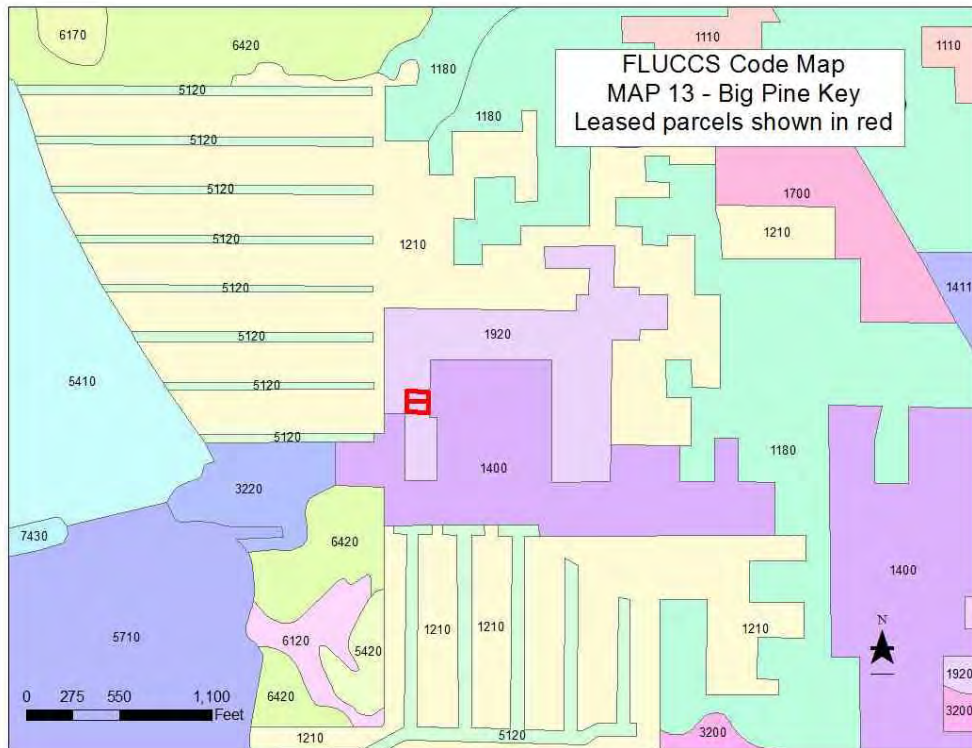
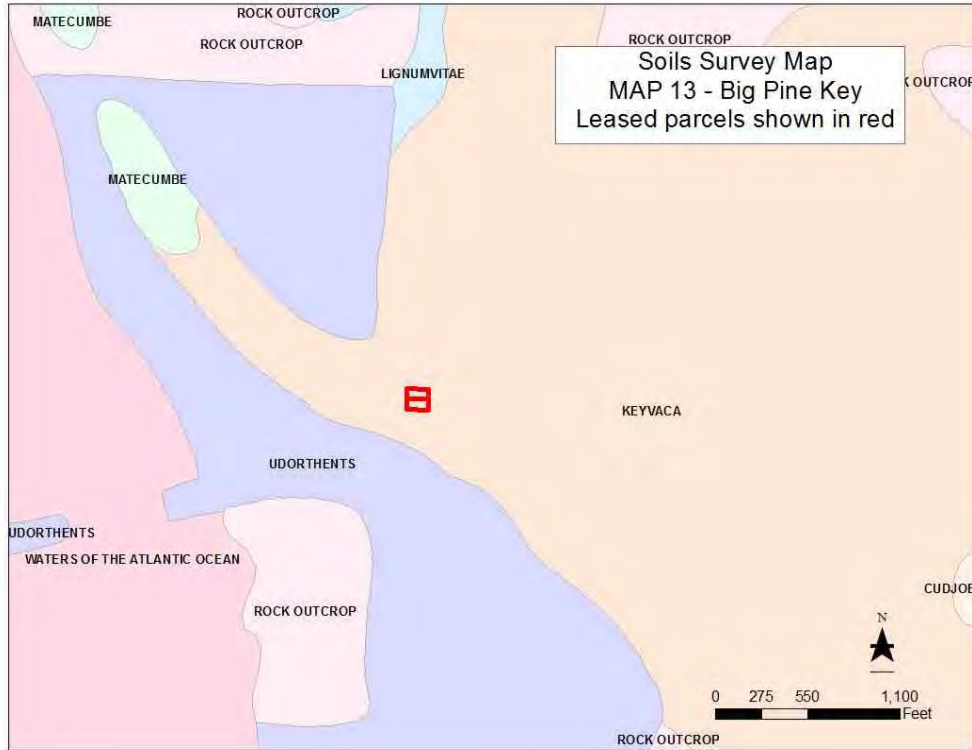
MAP 12
Little Torch Key
Leased parcels shown in red





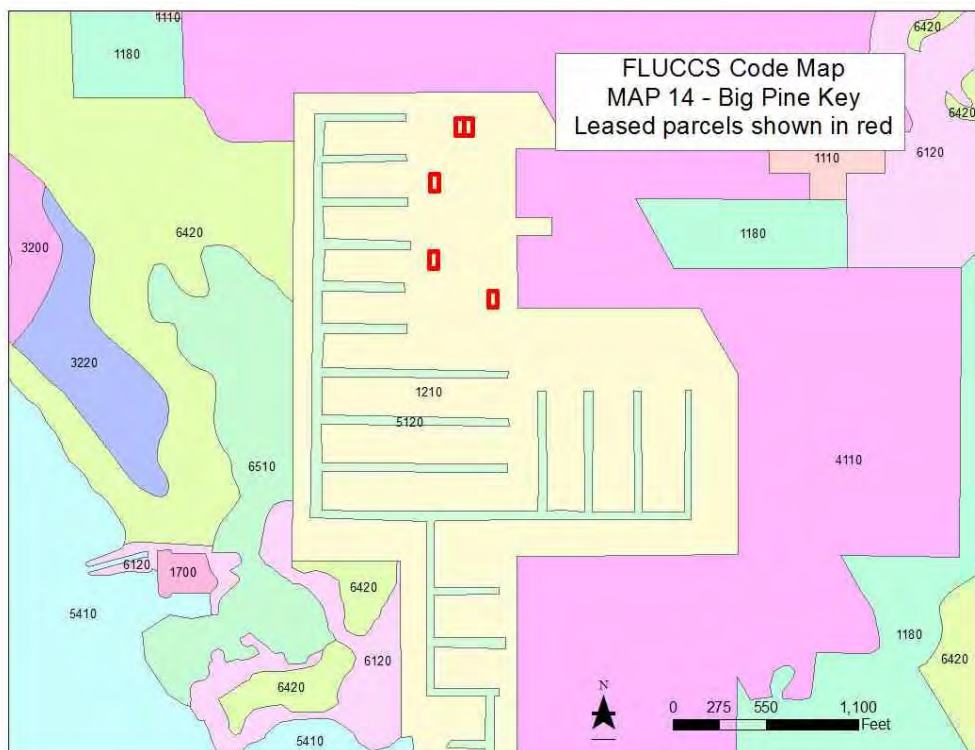
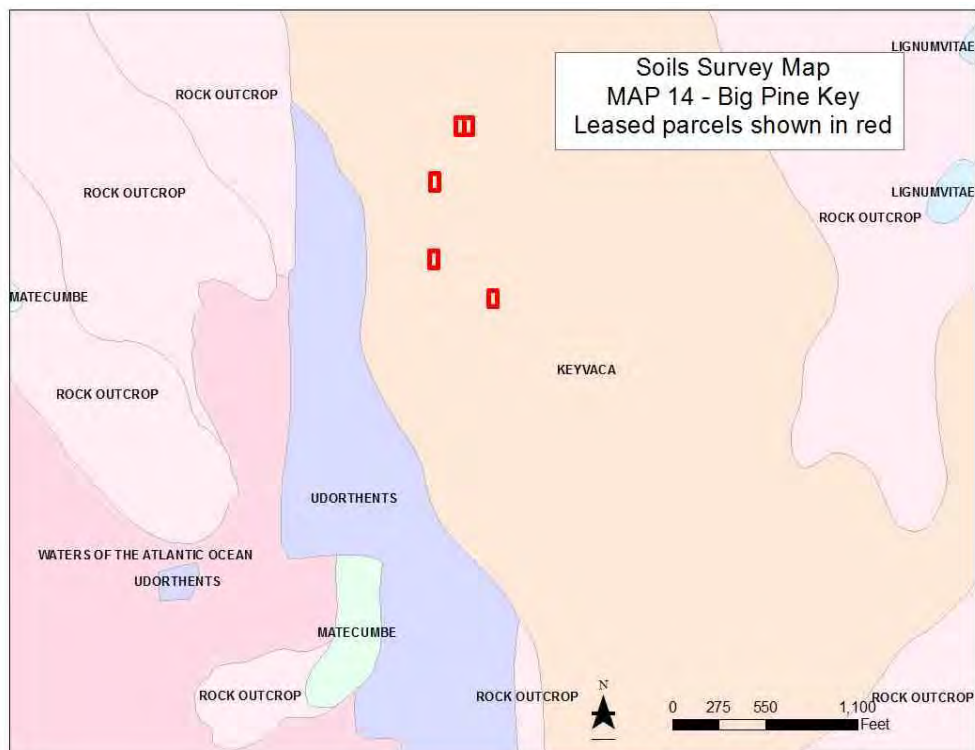
MAP 13
Big Pine Key
Leased parcels shown in red





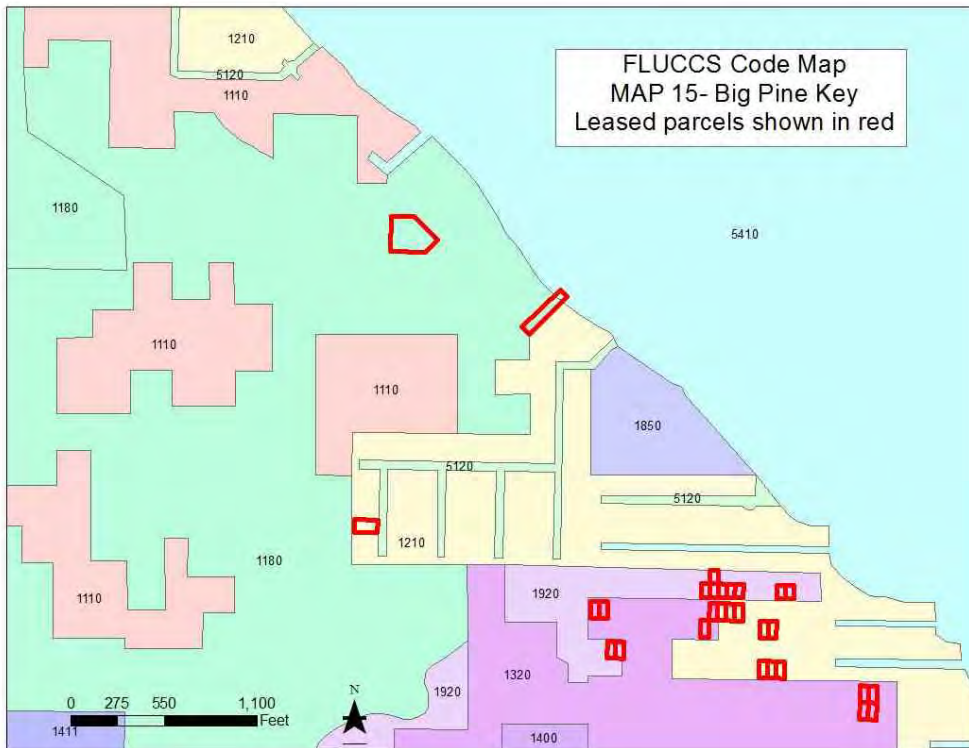
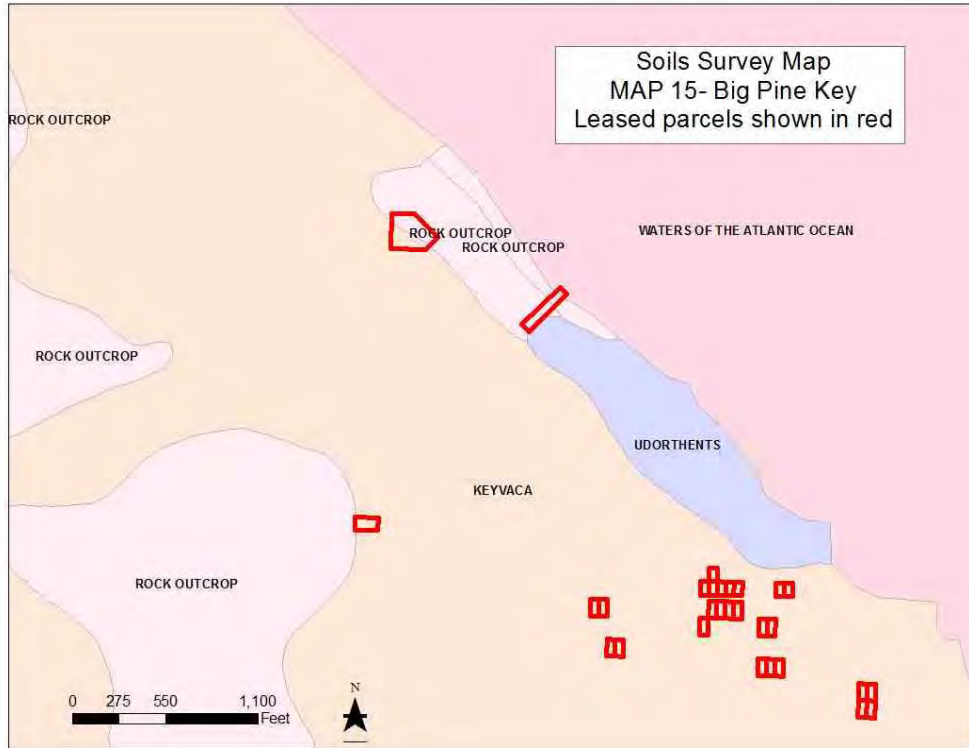
MAP 14
Big Pine Key
Leased parcels shown in red

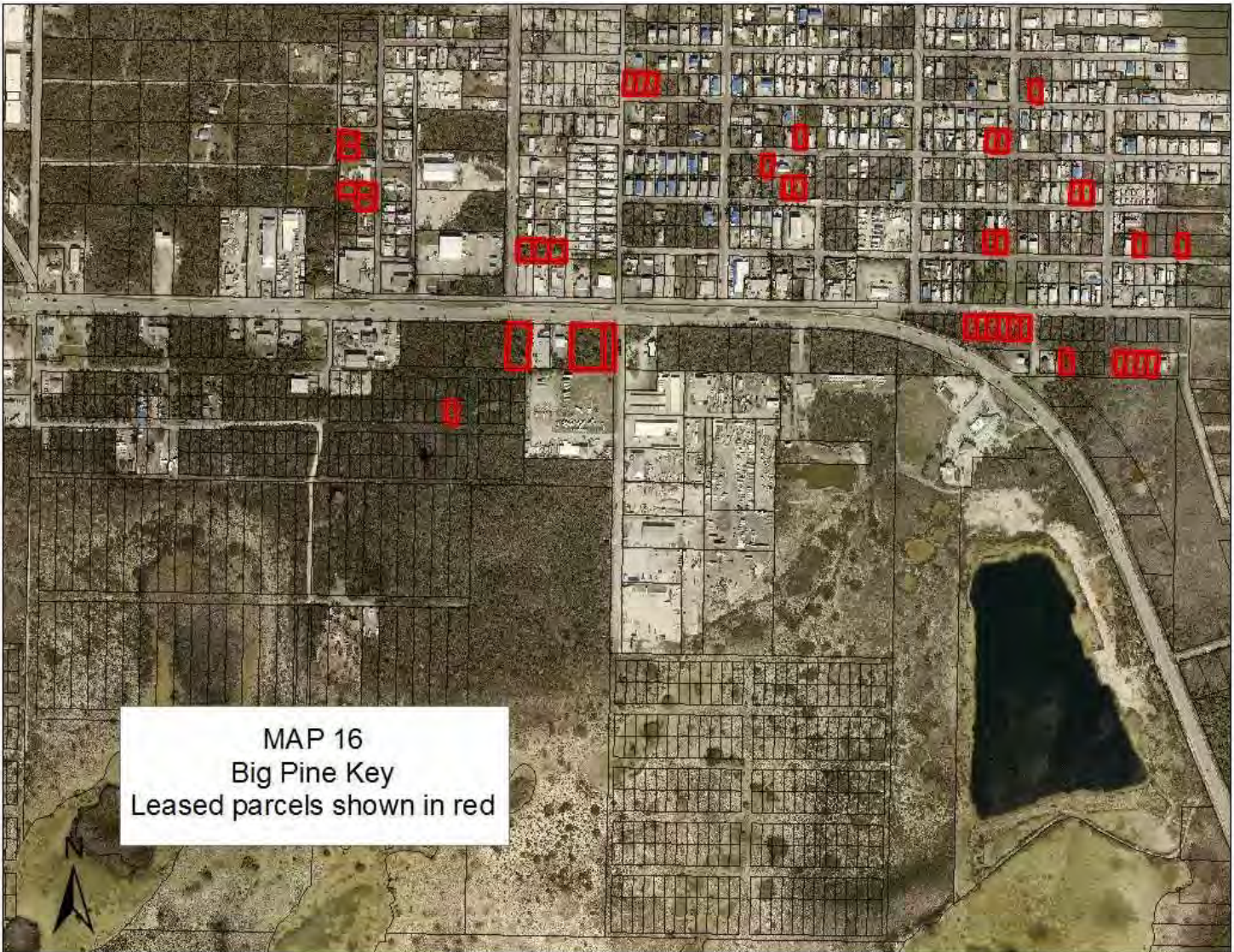




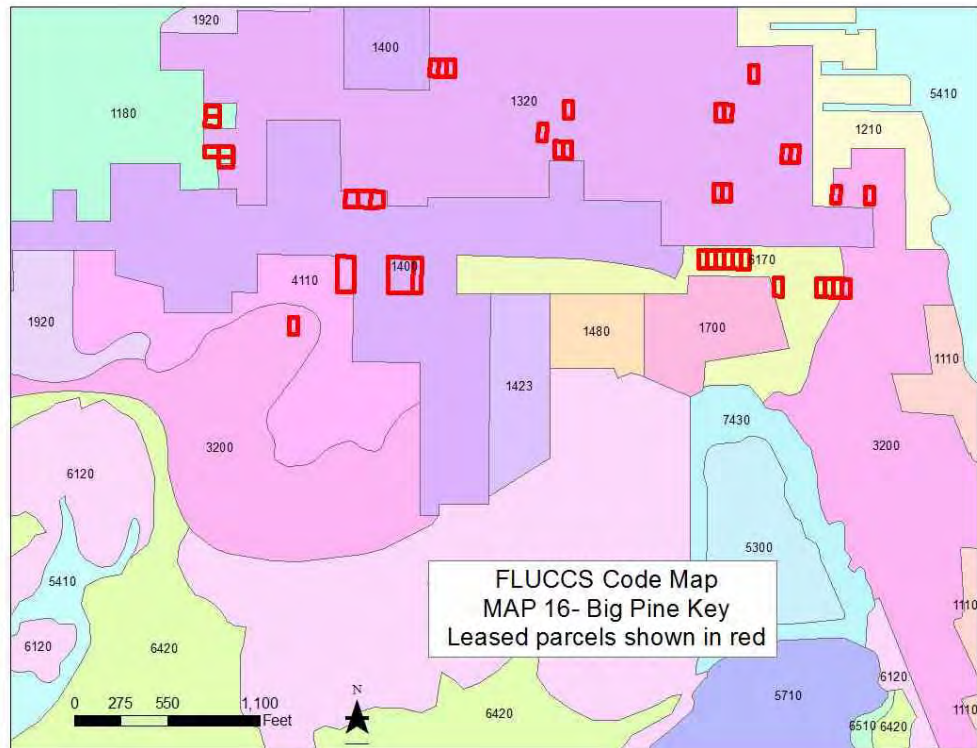
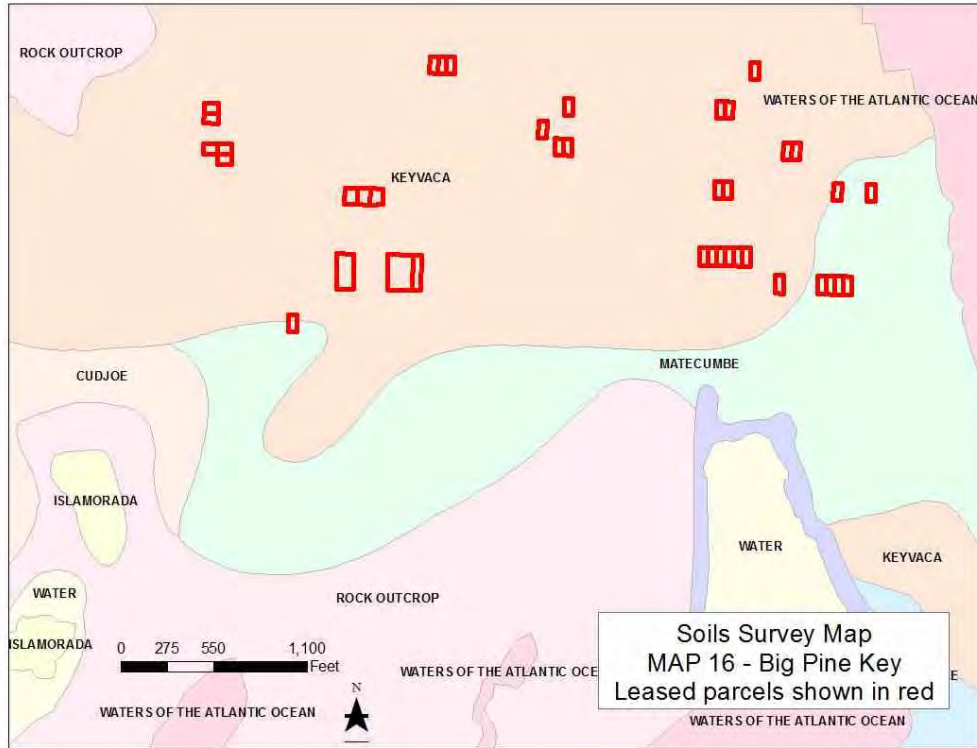
MAP 15
Big Pine Key
Leased parcels shown in red





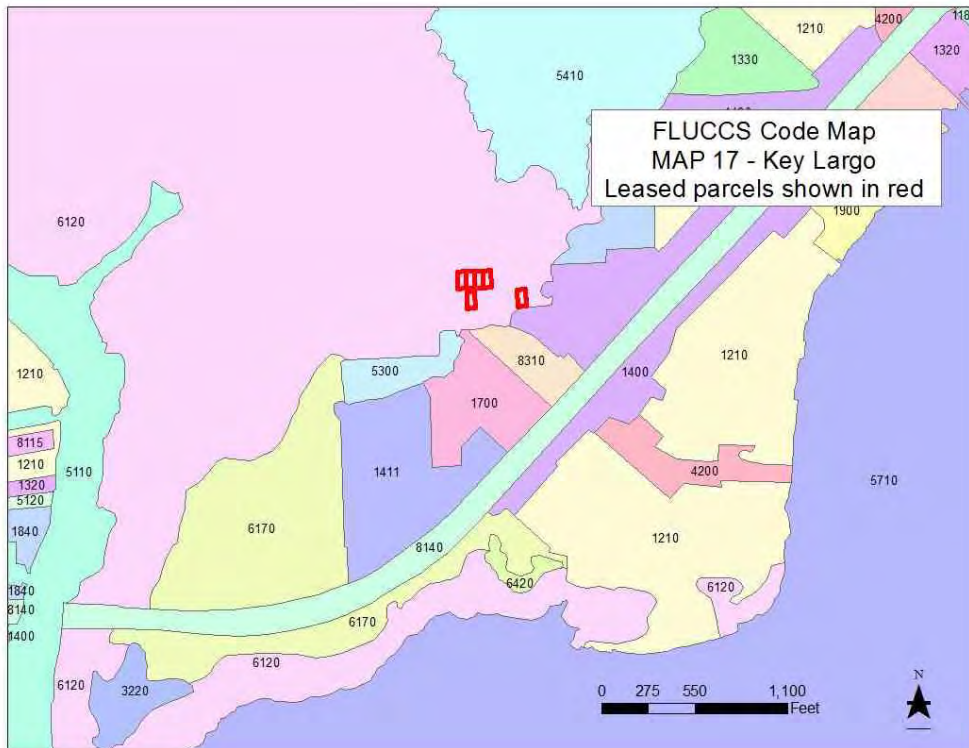
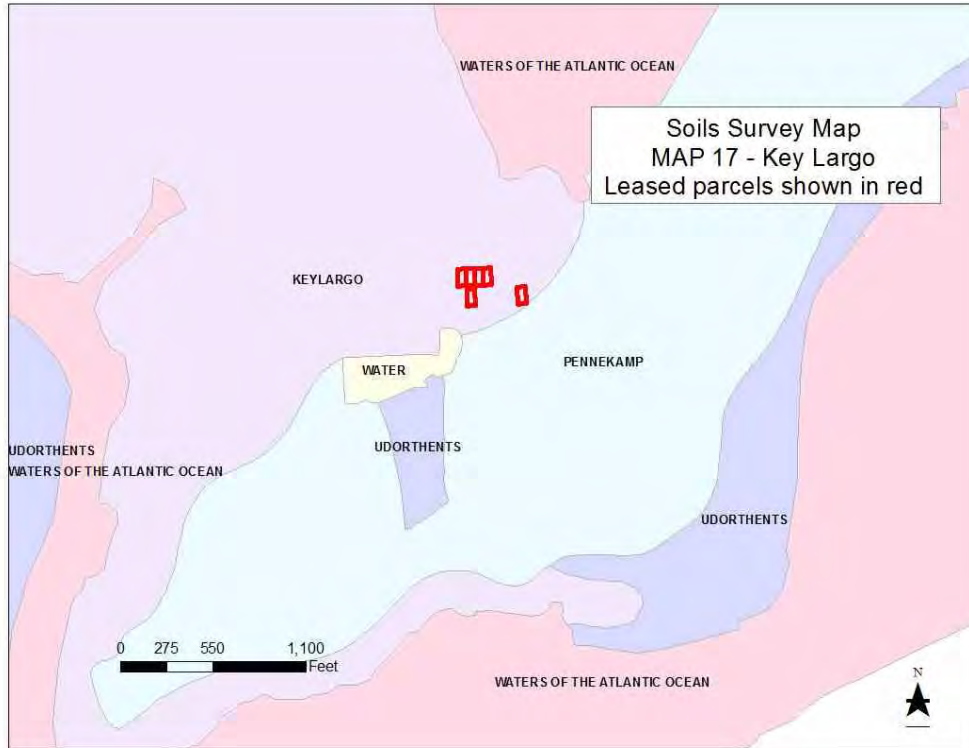


MAP 16
Big Pine Key
Leased parcels shown in red



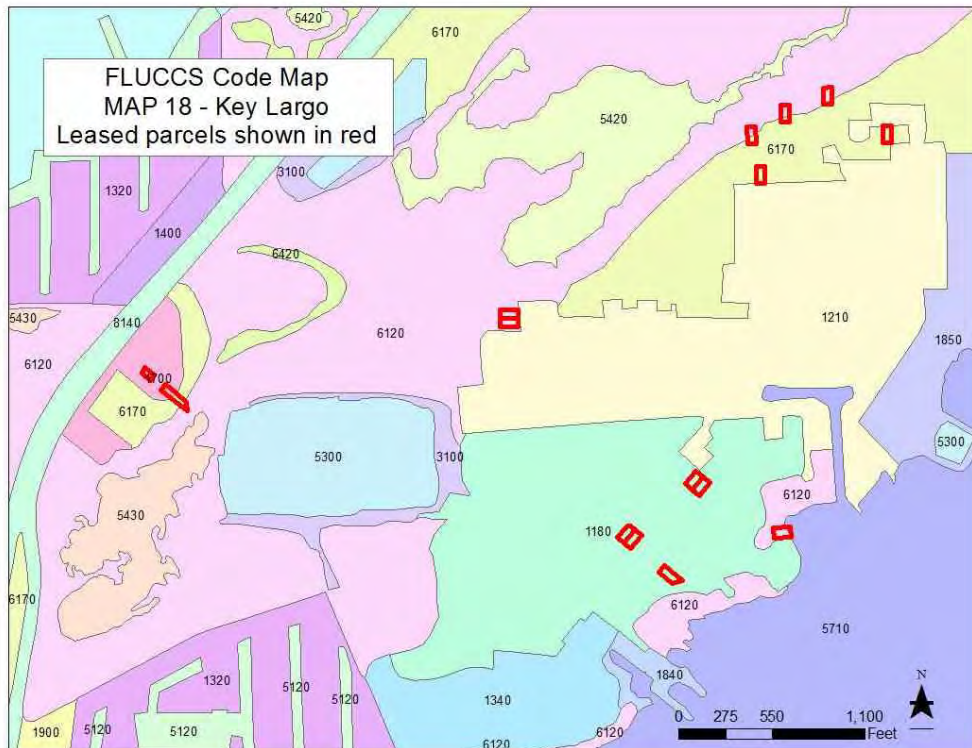
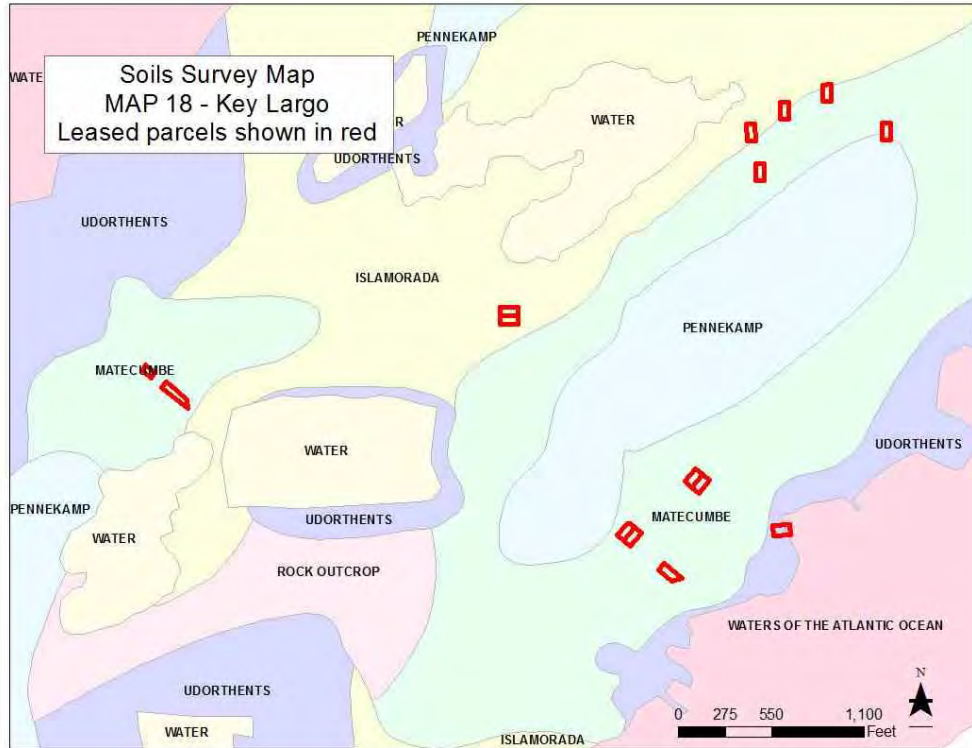
MAP 17
Key Largo
Leased parcels shown in red





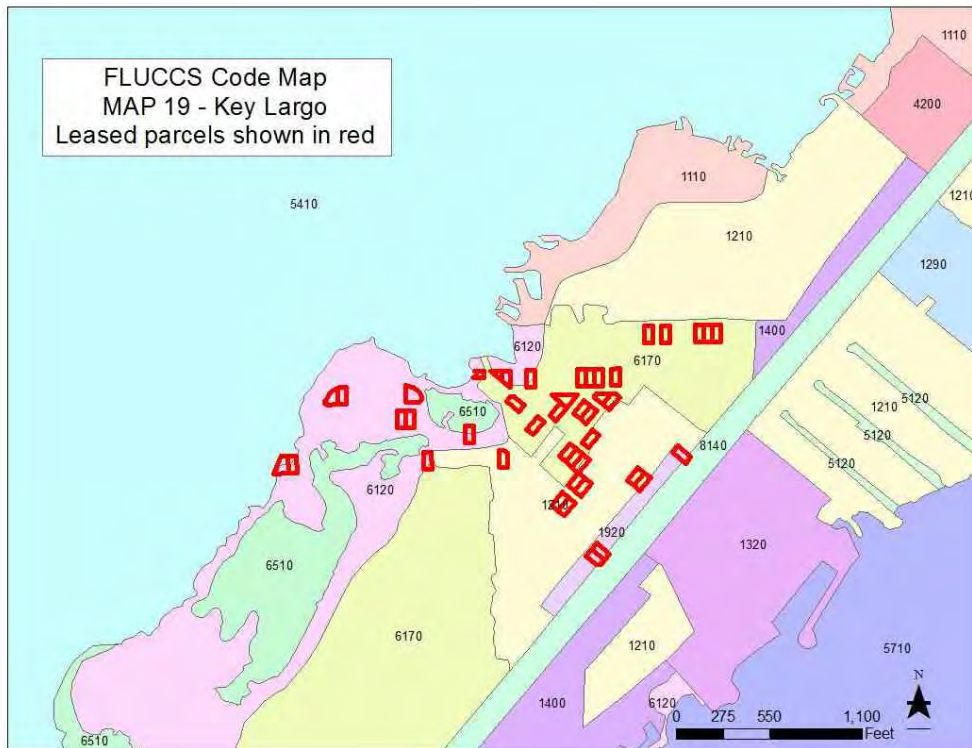
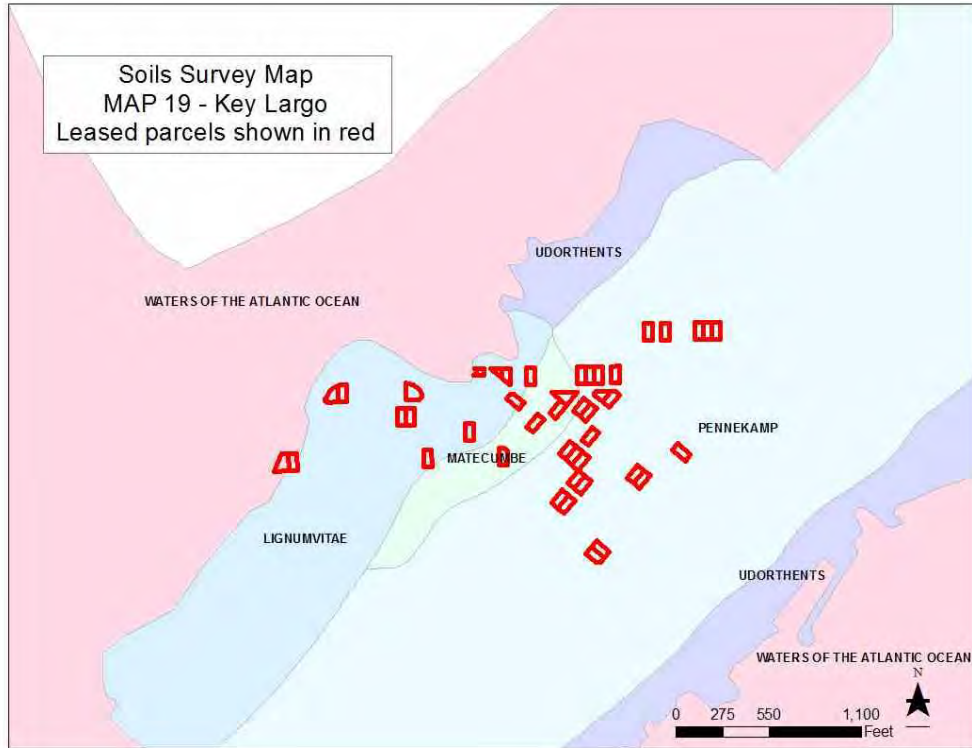
MAP 18
Key Largo
Leased parcels shown in red





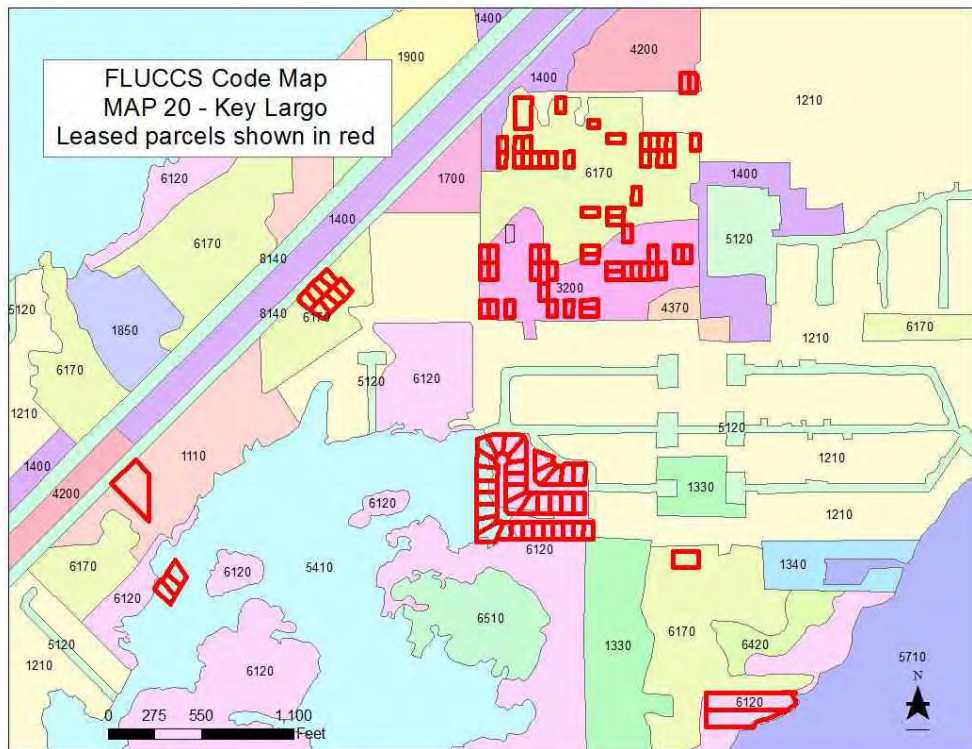
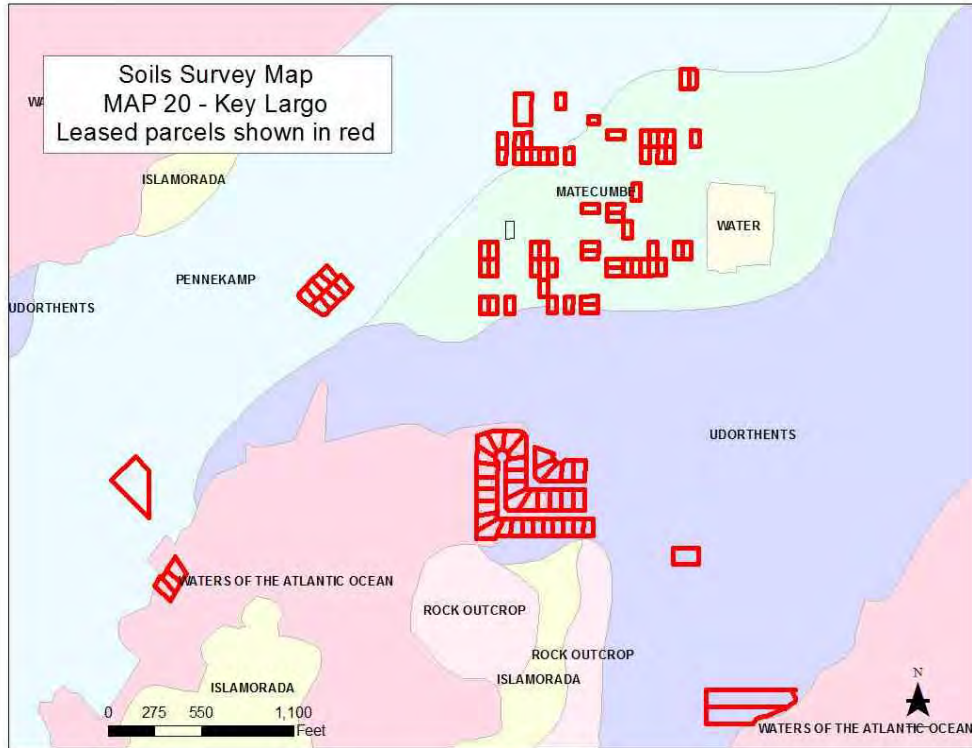
MAP 19
Key Largo
Leased parcels shown in red





MAP 20
Key Largo
Leased parcels shown in red

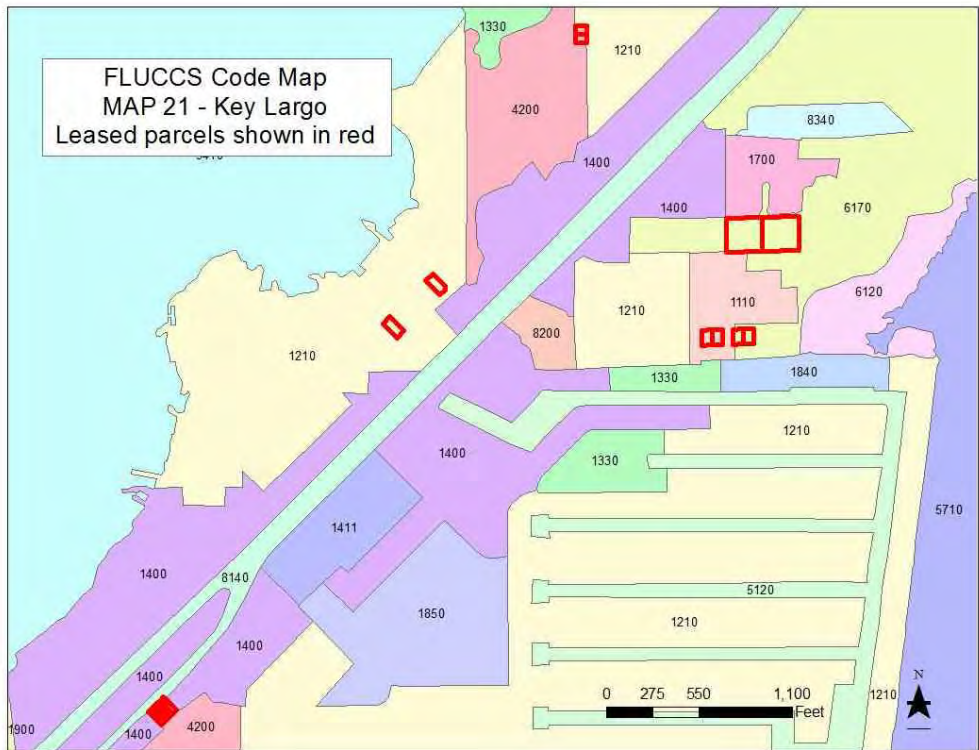
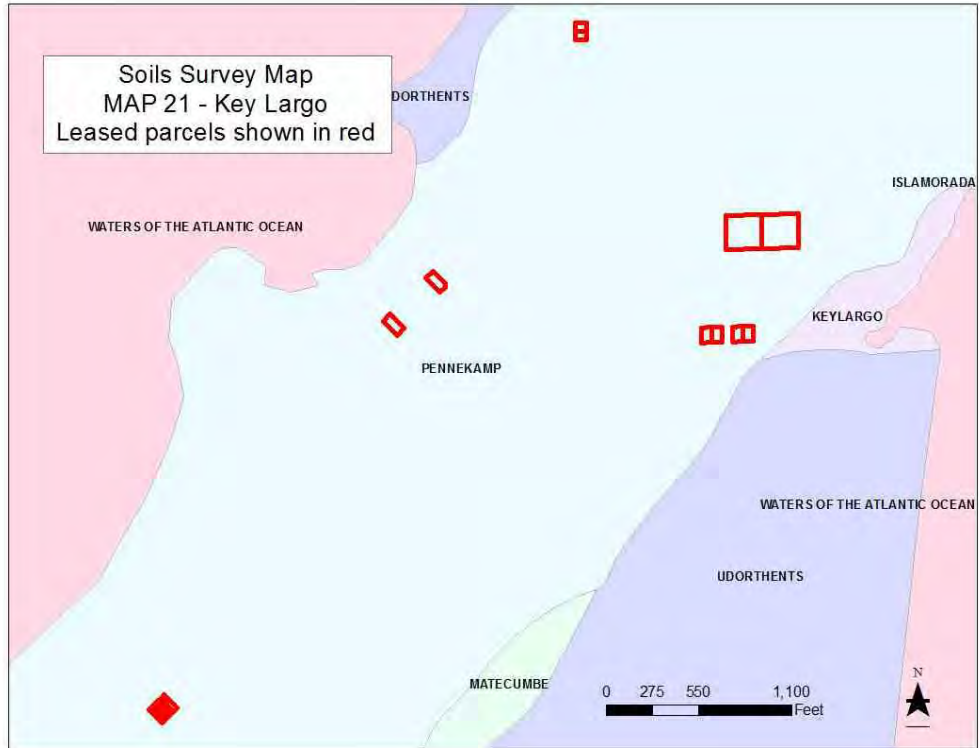






MAP 21
Key Largo
Leased parcels shown in red

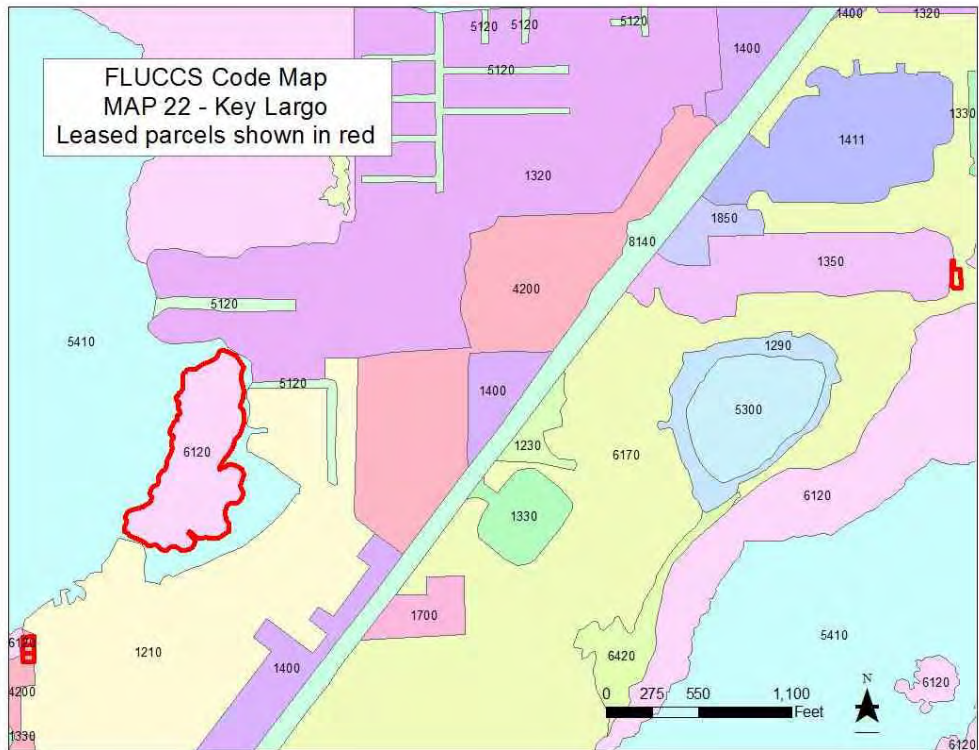
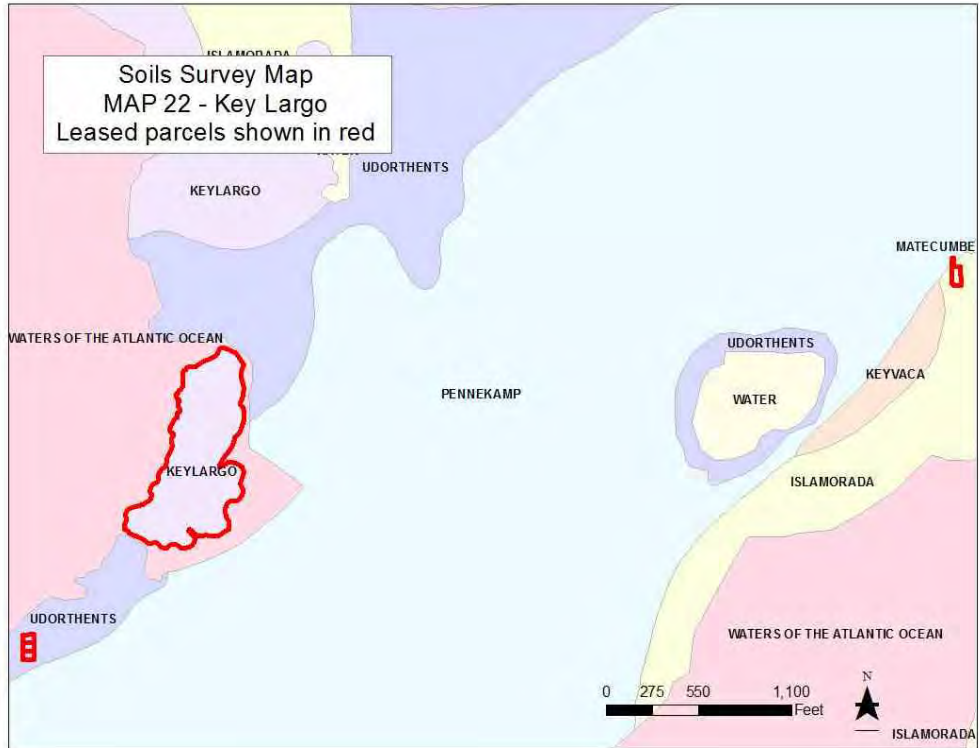






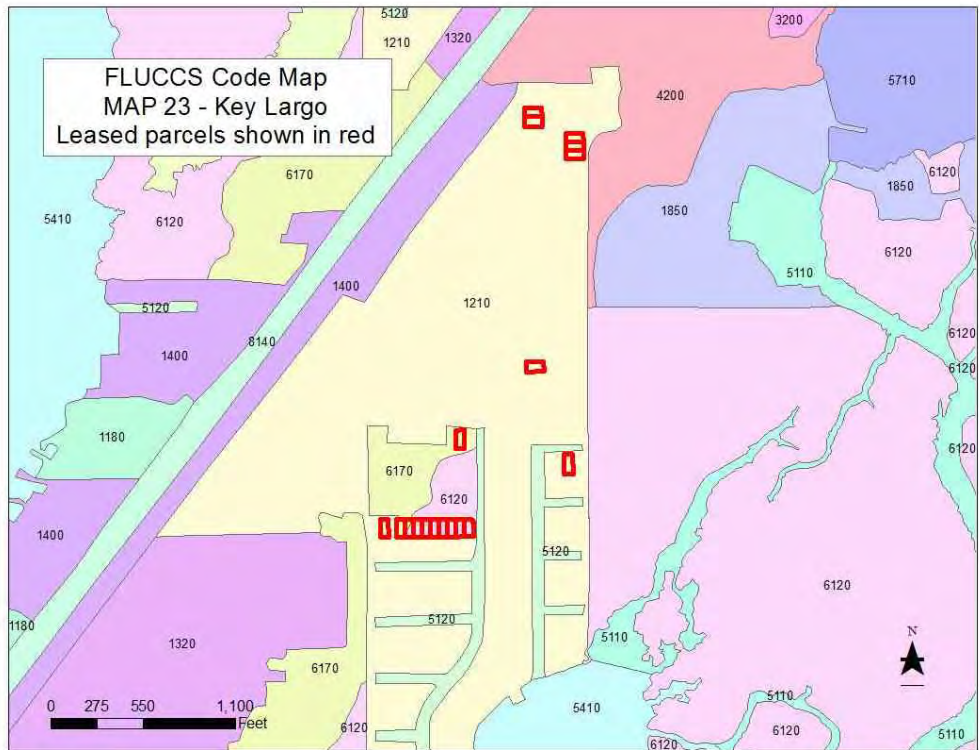
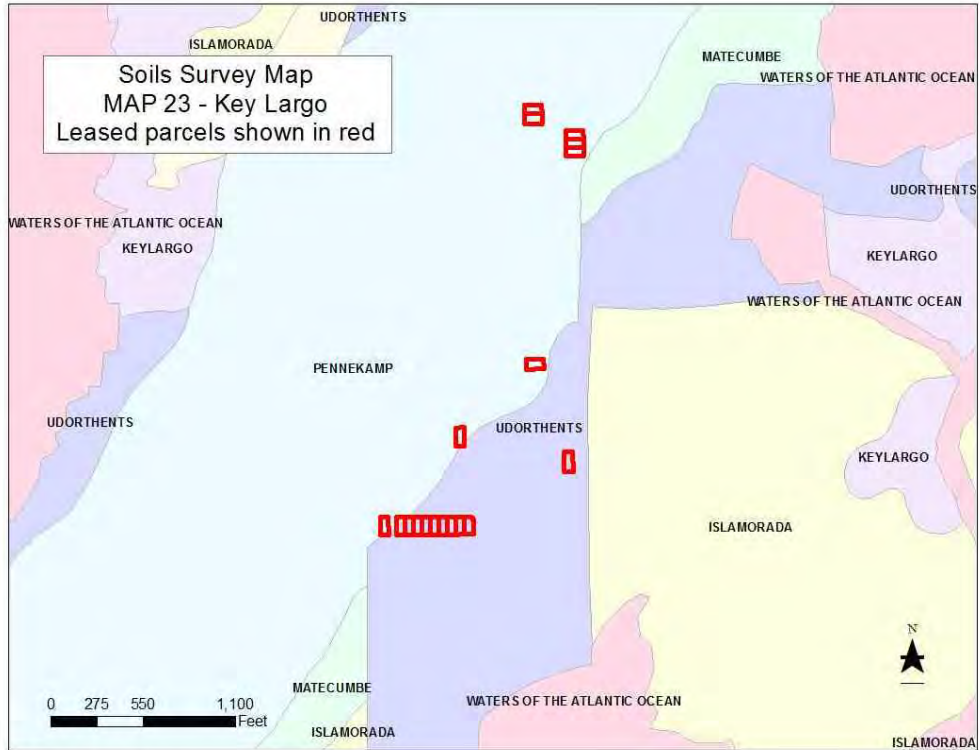
MAP 22
Key Largo
Leased parcels shown in red





MAP 23
Key Largo
Leased parcels shown in red

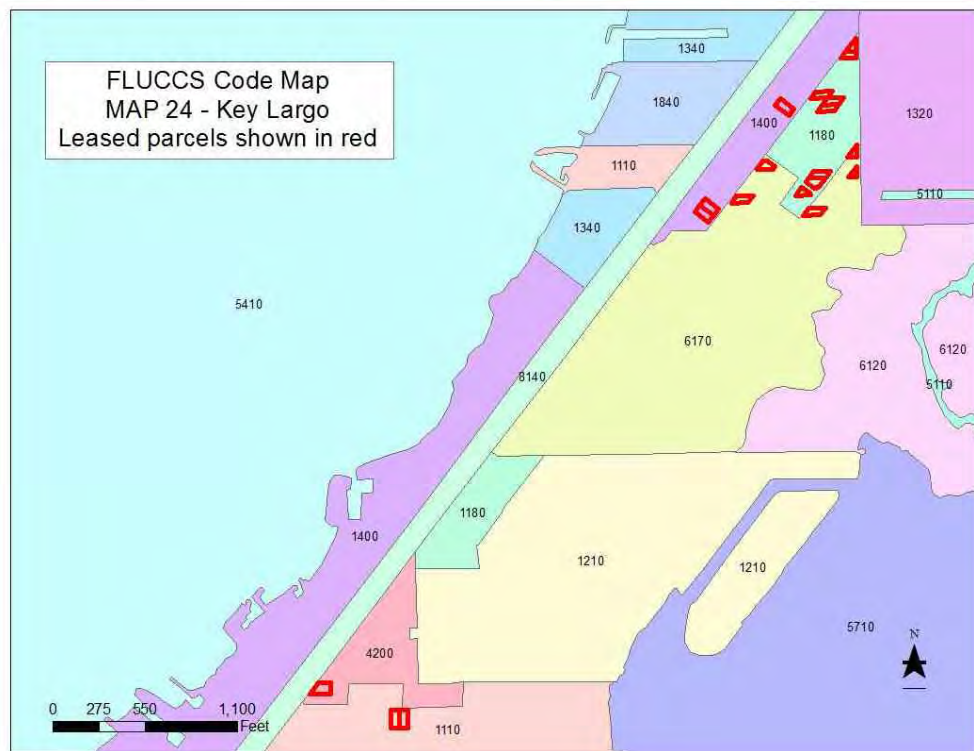
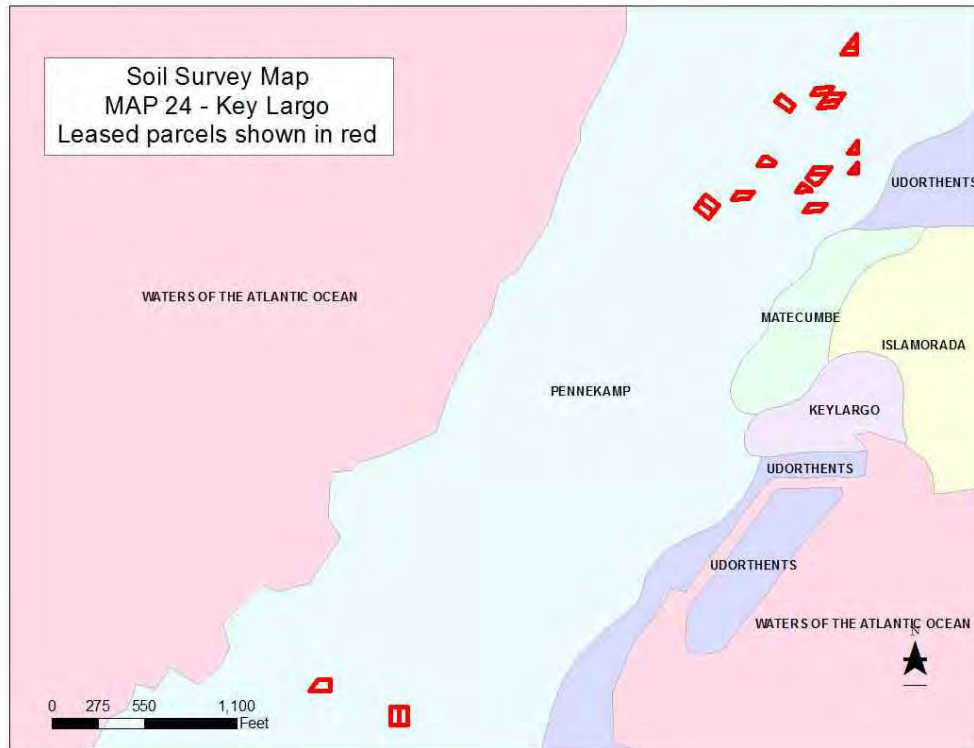






MAP 24
Key Largo
Leased parcels shown in red

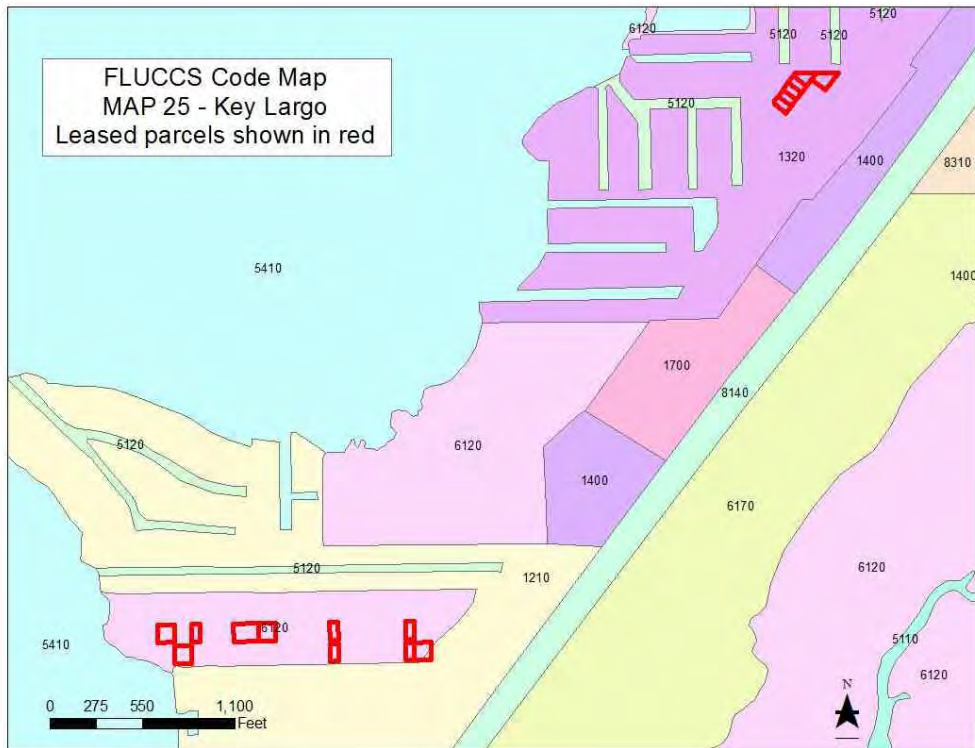
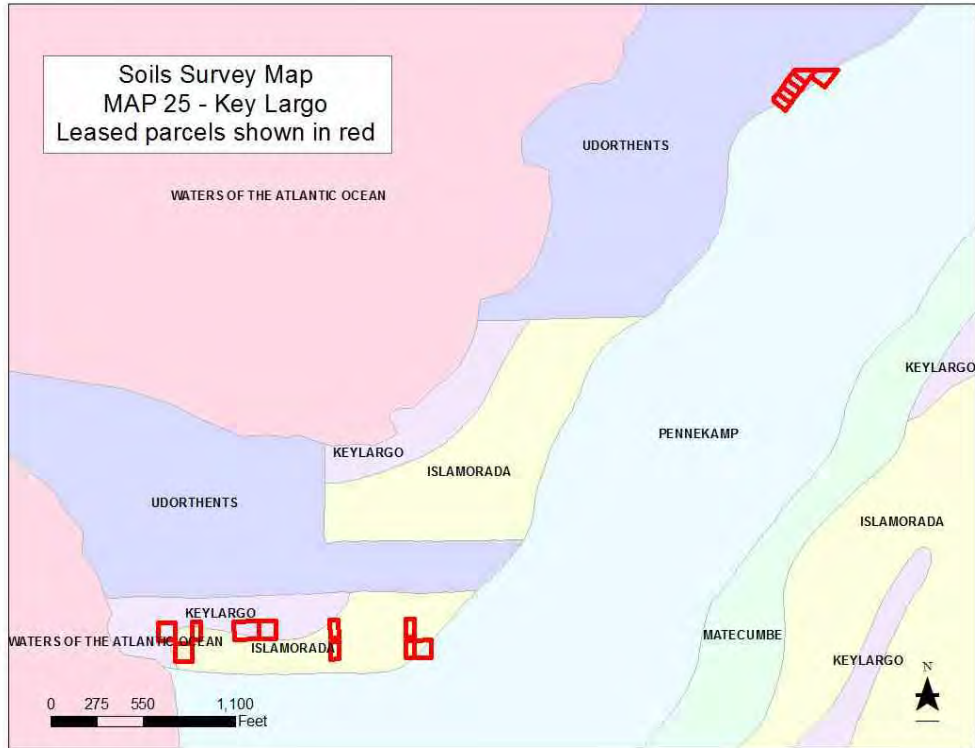






MAP 25
Key Largo
Leased parcels shown in red

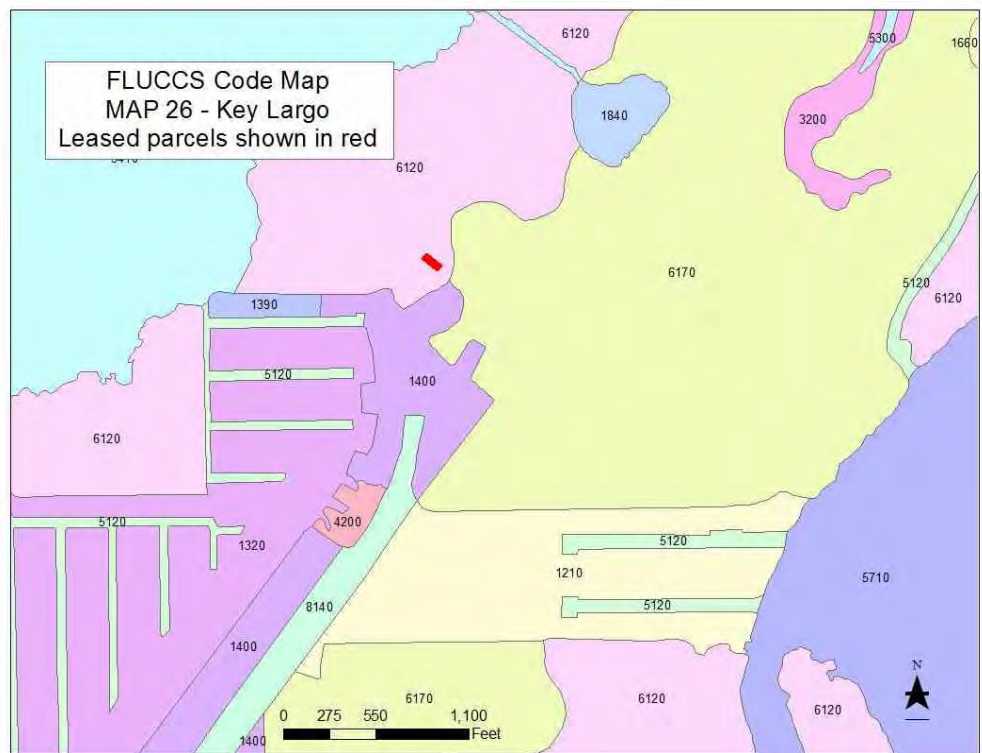
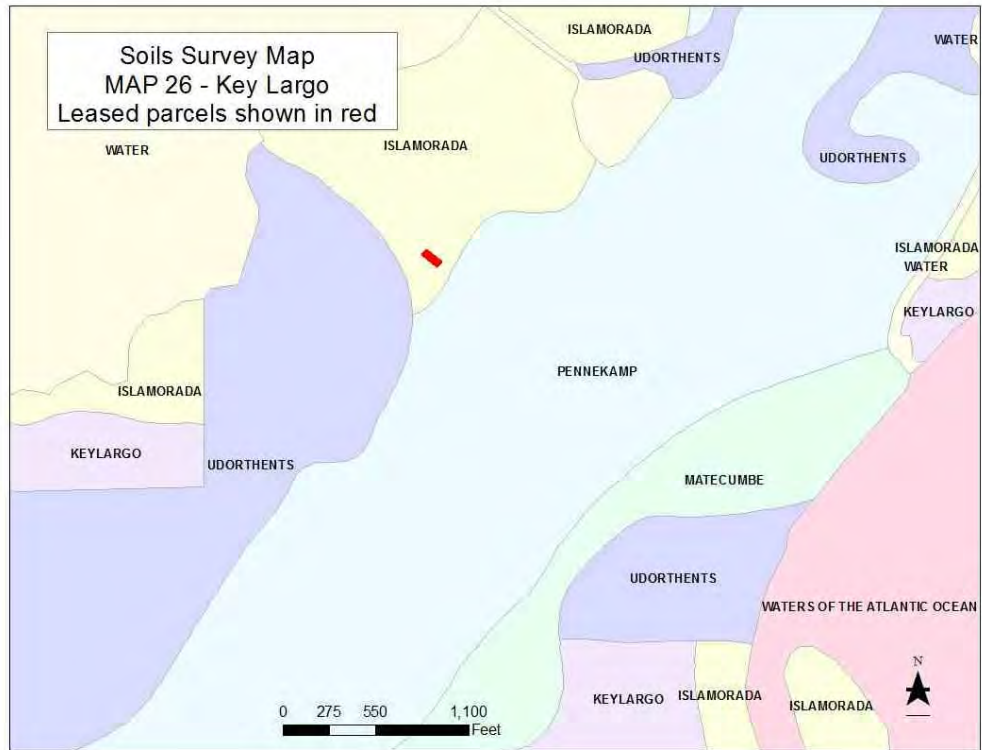






MAP 26
Key Largo
Leased parcels shown in red





APPENDIX B

Florida Natural Areas Inventory - Maps of Leased Parcels

State Lands Lease No. 4549

Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



1018 Thomasville Road
Suite 200-C
Tallahassee, FL 32303
(850) 224-8207
(850) 681-9364 Fax
www.fnai.org

FLORIDA
Native Areas
INVENTORY



Land Use / Land Cover

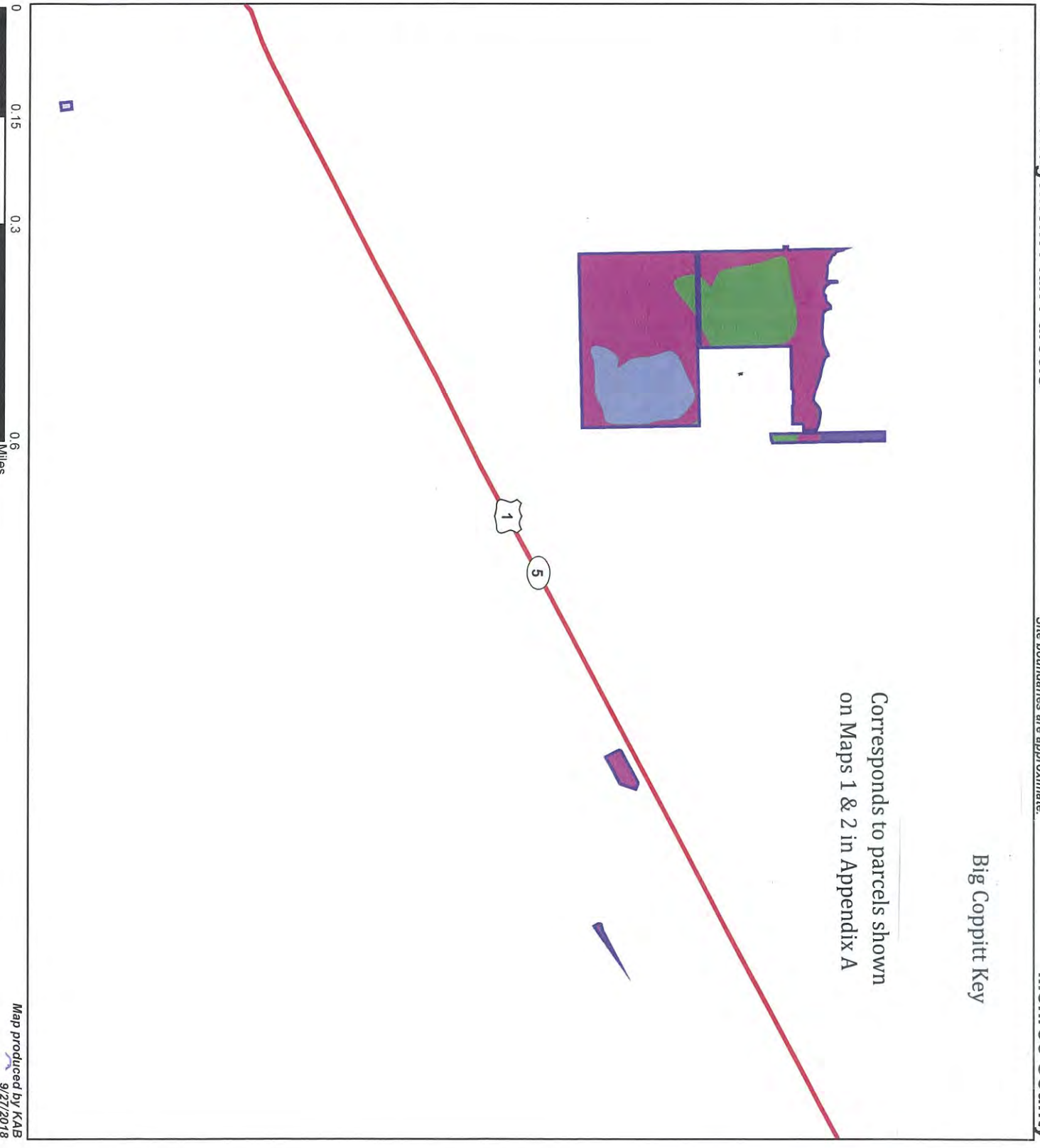
- Estuarine
- High Intensity Urban
- Low Intensity Urban
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Corresponds to parcels shown on Maps 1 & 2 in Appendix A

Big Coppitt Key



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



1018 Thomasville Road
Suite 200-C
Tallahassee, FL 32303
(850) 224-8207
(850) 681-9364 Fax
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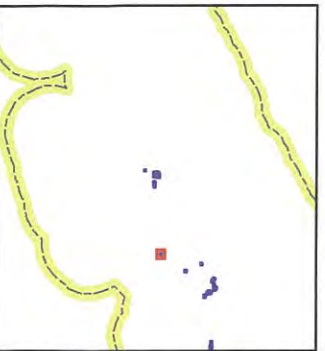
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

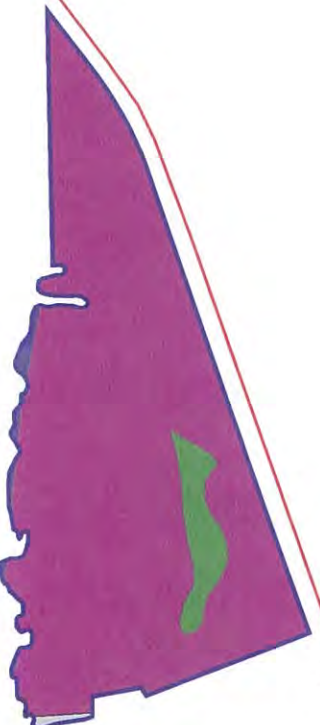
- High Intensity Urban
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Lower Sugarloaf Key
Corresponds to parcels shown on Map 3 in Appendix A

939



0 125 250 500 750 1,000 Feet



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

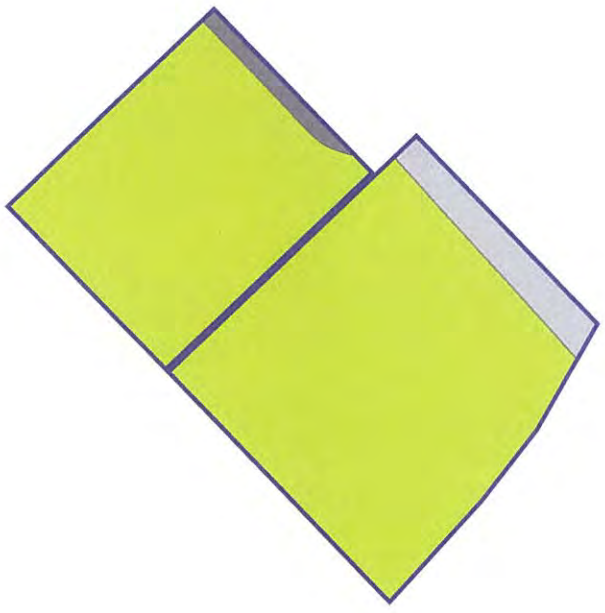
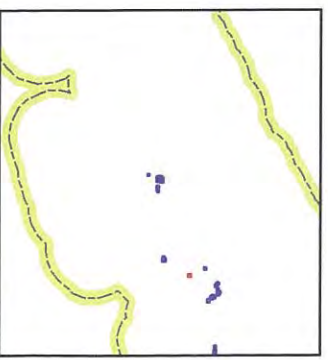
Lower Sugarloaf Key

Corresponds to parcels shown on Map 4 in Appendix A

Land Use / Land Cover

-  High Intensity Urban
-  Keys Tidal Rock Barren
-  Marine
-  Transportation
-  County Boundary
-  Interstate
-  Turnpike
-  Major Highway
-  Local Road
-  Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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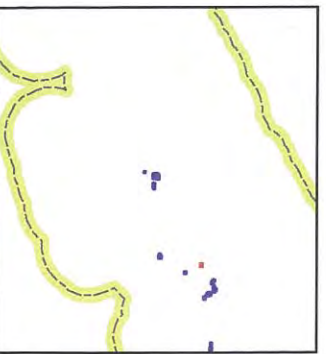
FLORIDA
Natural Areas
INVENTORY



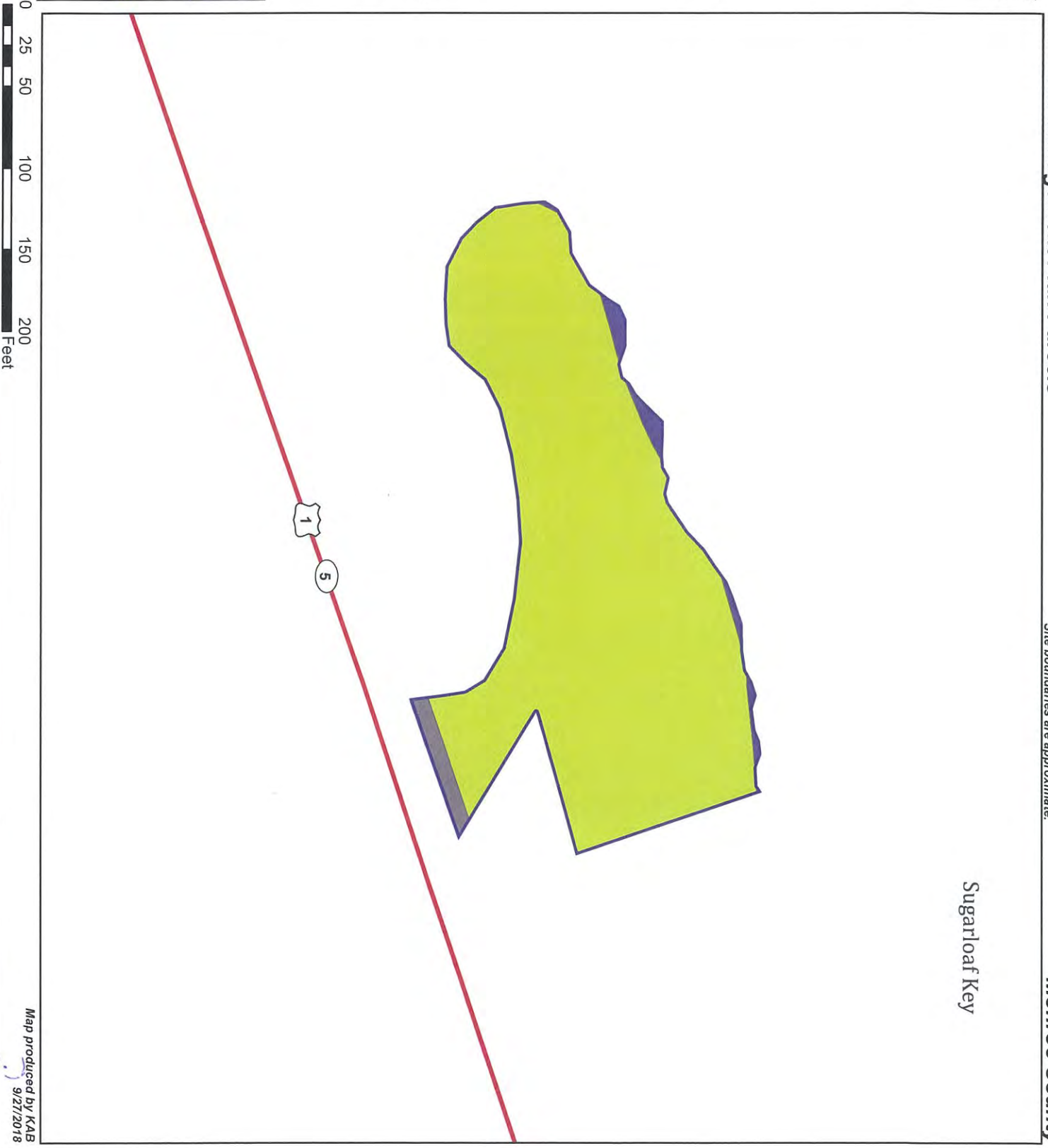
Land Use / Land Cover

- Keys Tidal Rock Barren
- Marine
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Sugarloaf Key





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Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

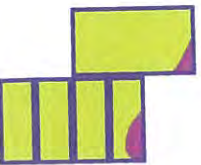
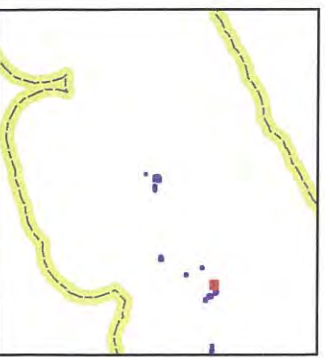
Upper Sugarloaf Key

Corresponds to parcels shown
on Map 5 in Appendix A

Land Use / Land Cover

-  High Intensity Urban
-  Keys Tidal Rock Barren
-  Low Intensity Urban
-  Mangrove Swamp
-  Marine
-  Transportation
-  County Boundary
-  Interstate
-  Turnpike
-  Major Highway
-  Local Road
-  Railroad [inactive railroads
shown in Gray]

Land cover and land use information
derived from
<http://www.fnai.org/LandCover.cfm>.
See webpage for more information.

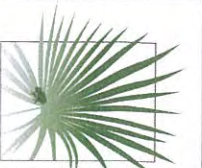


0 125 250 500 750 1,000
Feet

Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



1018 Thomasville Road
Suite 200-C
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(850) 224-8207
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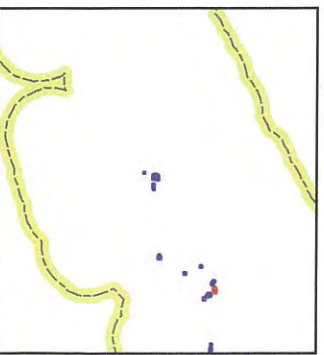
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

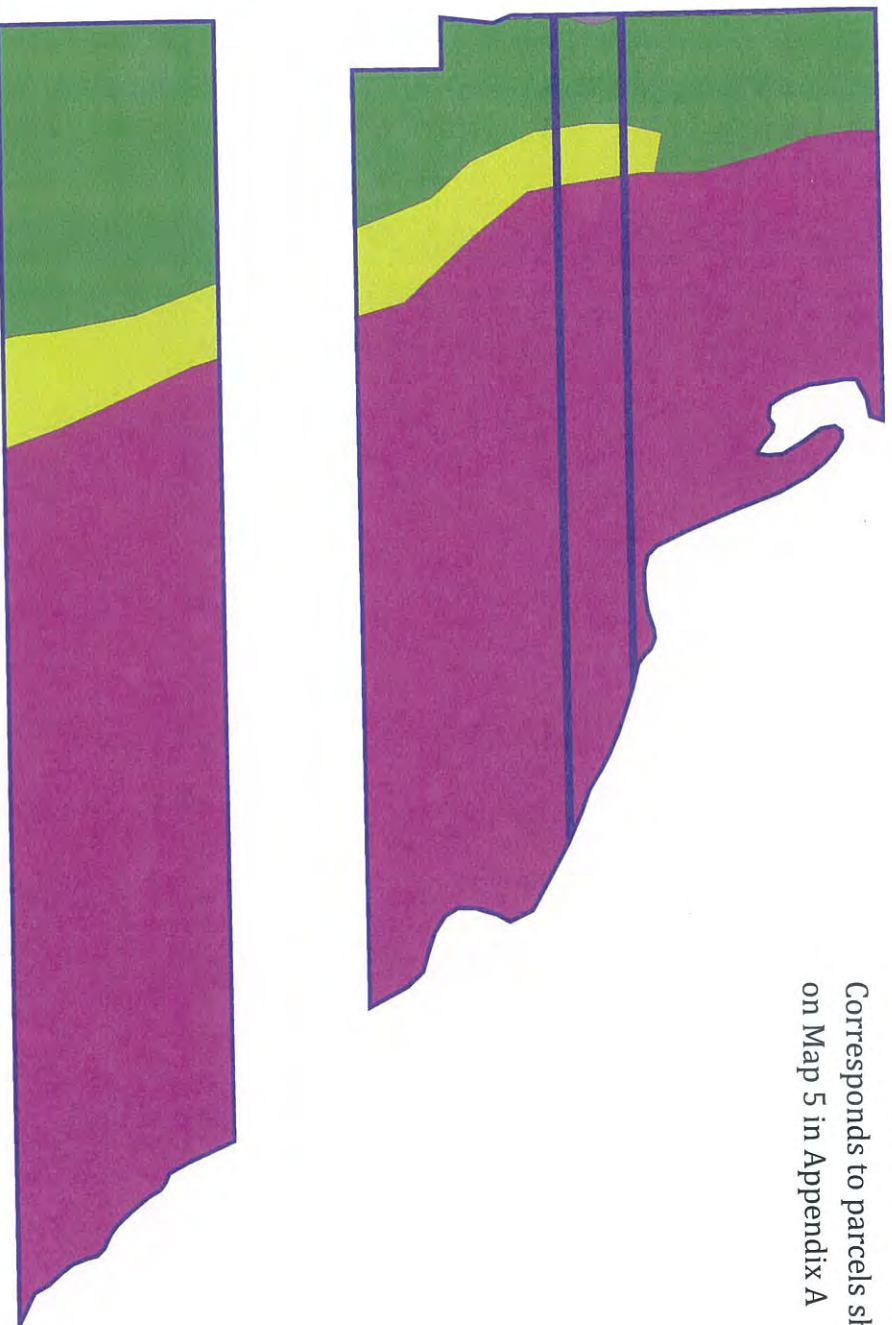
- High Intensity Urban
- Keys Tidal Rock Barren
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Upper Sugarloaf Key

Corresponds to parcels shown on Map 5 in Appendix A





FLORIDA
Natural Areas
INVENTORY

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Ten Year Management Plan Parcels

Site boundaries are approximate.

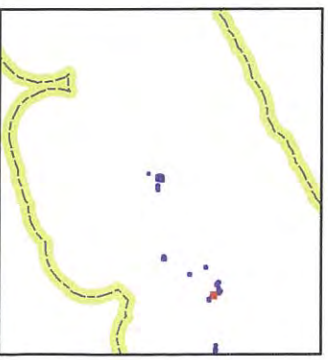
Monroe County

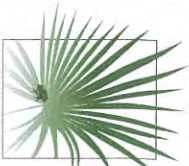


Land Use / Land Cover

- Estuarine
- High Intensity Urban
- Keys Tidal Rock Barren
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.





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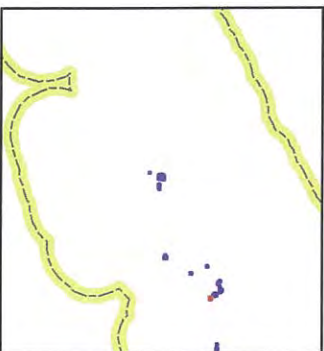
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

-  High Intensity Urban
-  Mangrove Swamp
-  Marine
-  Rockland Hammock
-  Transportation
-  County Boundary
-  Interstate
-  Turnpike
-  Major Highway
-  Local Road
-  Railroad [inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



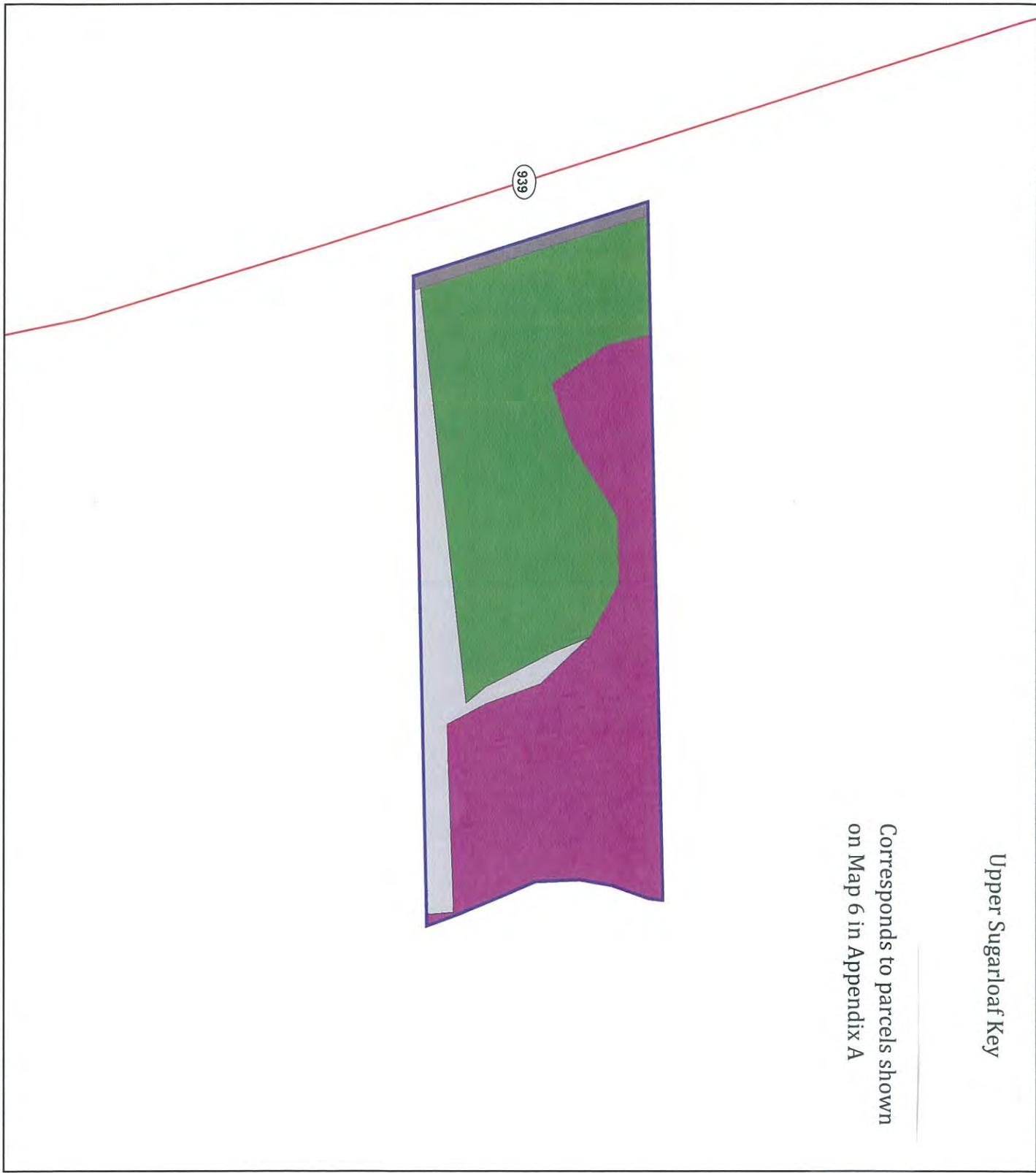
Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

Upper Sugarloaf Key

Corresponds to parcels shown on Map 6 in Appendix A



939

0 37.5 75 150 225 300 Feet



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Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

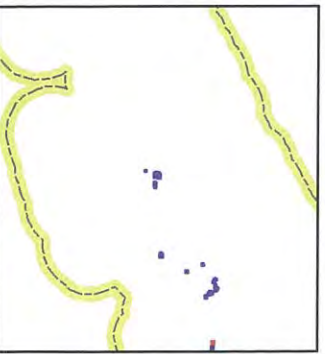
Summerland Key

Corresponds to parcels shown
on Map 7 in Appendix A

Land Use / Land Cover

- Mangrove Swamp
- Marine
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



0 37.5 75 150 225 300 Feet



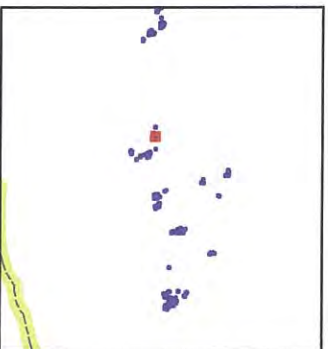
1018 Thomasville Road
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(850) 681-9364 Fax
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FLORIDA
Natural Areas
INVENTORY

Land Use / Land Cover

-  High Intensity Urban
-  Keys Tidal Rock Barren
-  Mangrove Swamp
-  Marine
-  Transportation
-  County Boundary
-  Interstate
-  Turnpike
-  Major Highway
-  Local Road
-  Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



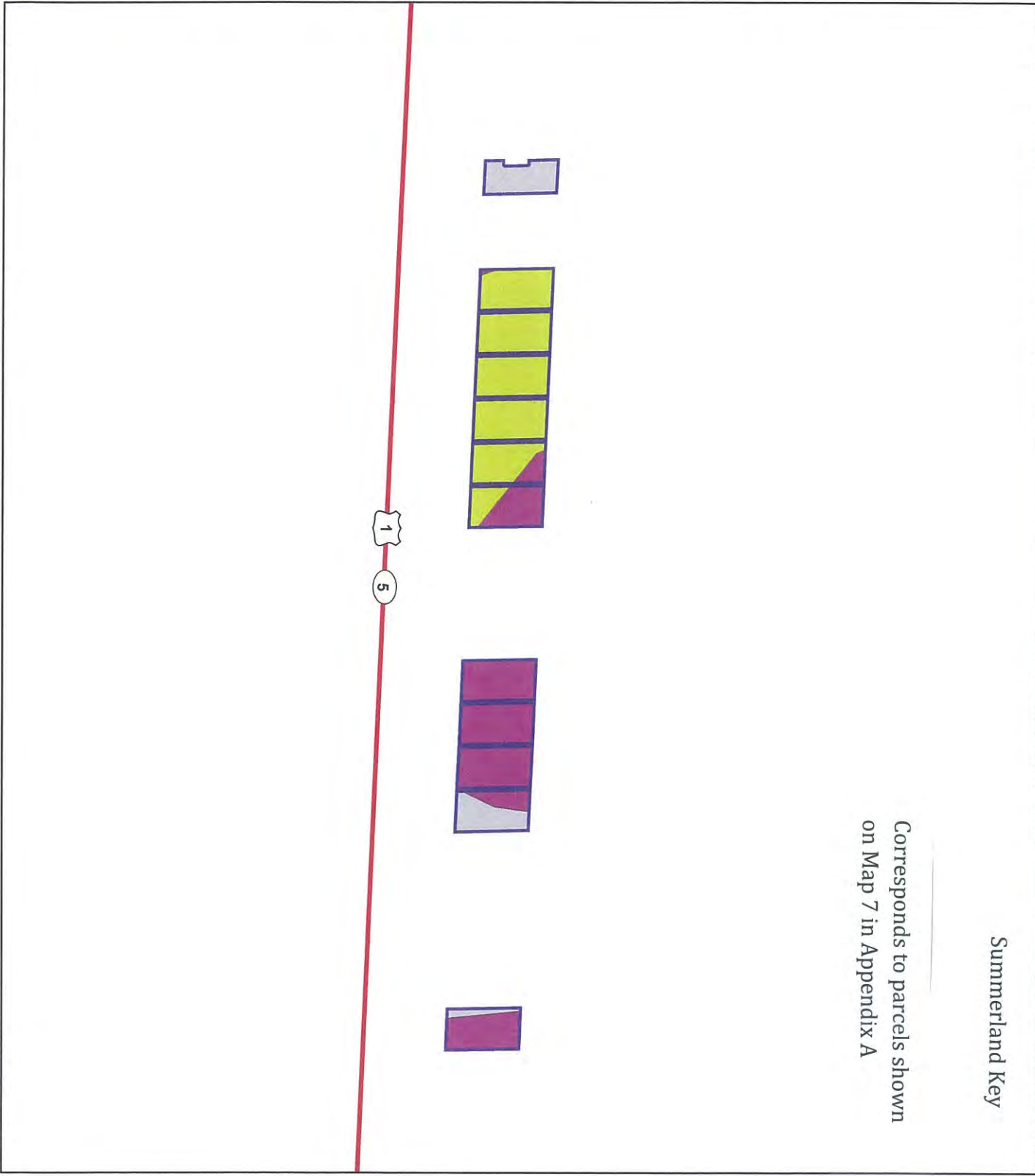
Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

Summerland Key

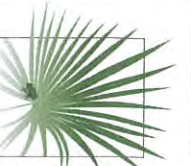
Corresponds to parcels shown on Map 7 in Appendix A



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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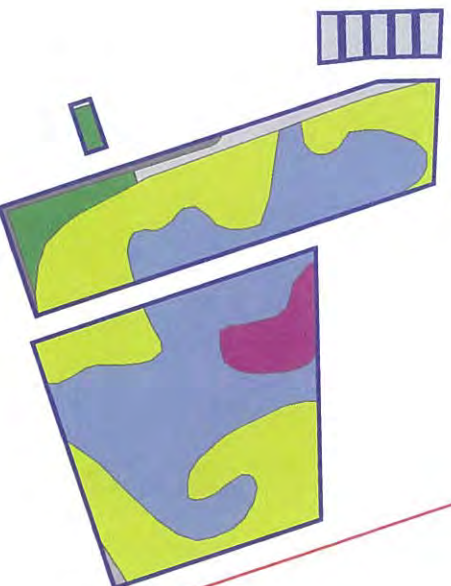
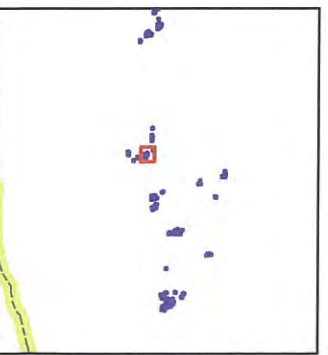
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

- Estuarine
- High Intensity Urban
- Keys Tidal Rock Barren
- Low Intensity Urban
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Corresponds to parcels shown on Map 8 in Appendix A

Summerland Key

0 125 250 500 750 1,000 Feet

Map produced by KAB
9/27/2018

Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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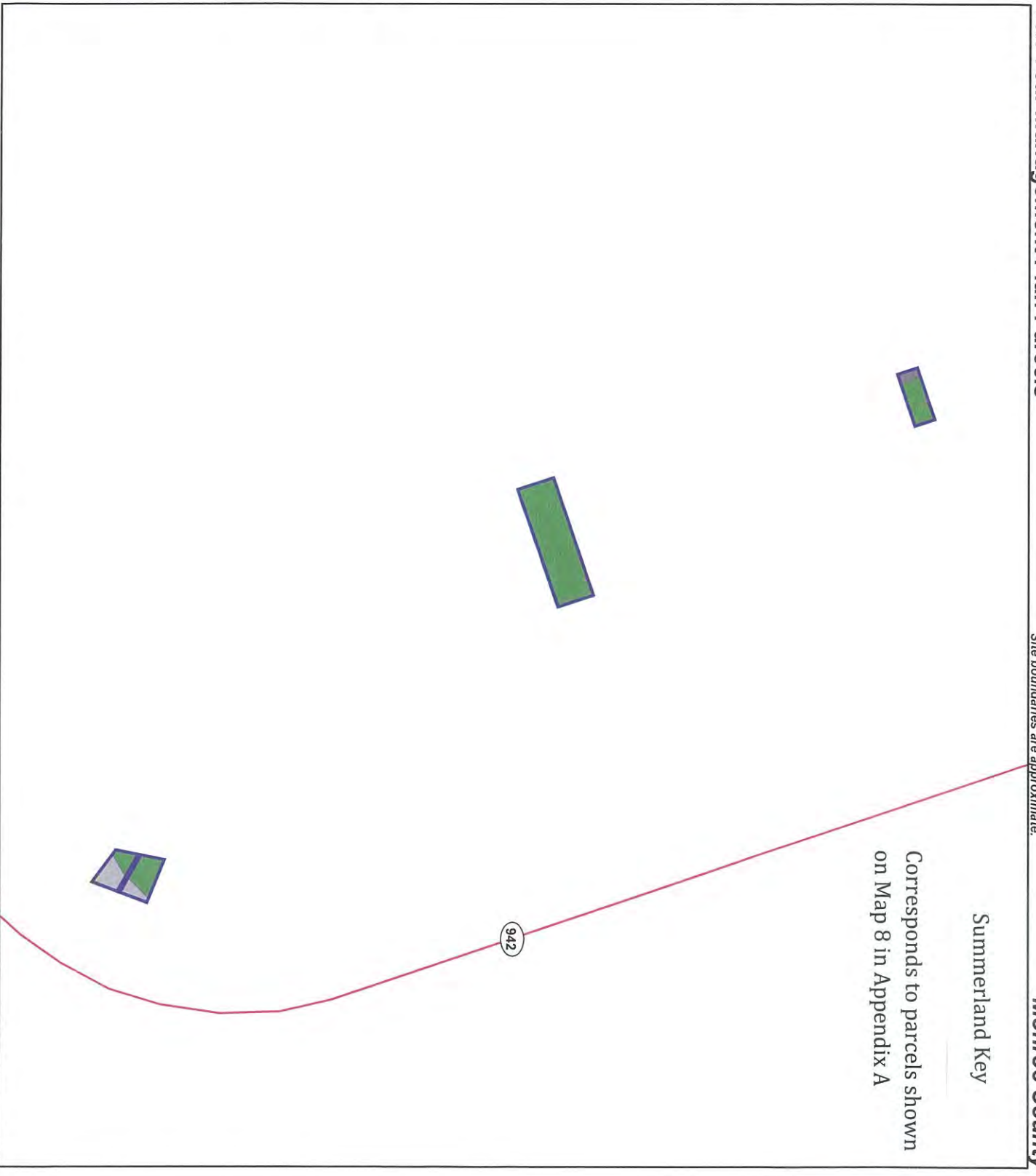
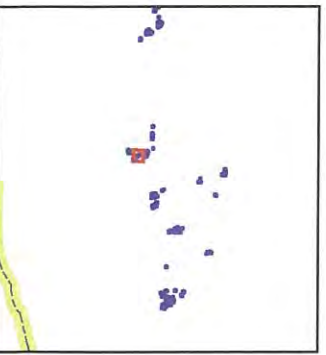
FLORIDA
Natural Areas
INVENTORY

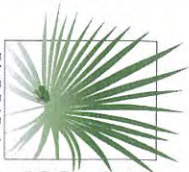


Land Use / Land Cover

- Keys Tidal Rock Barren
- Low Intensity Urban
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from
<http://www.fnai.org/LandCover.cfm>.
See webpage for more information.





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FLORIDA
Natural Areas
INVENTORY



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

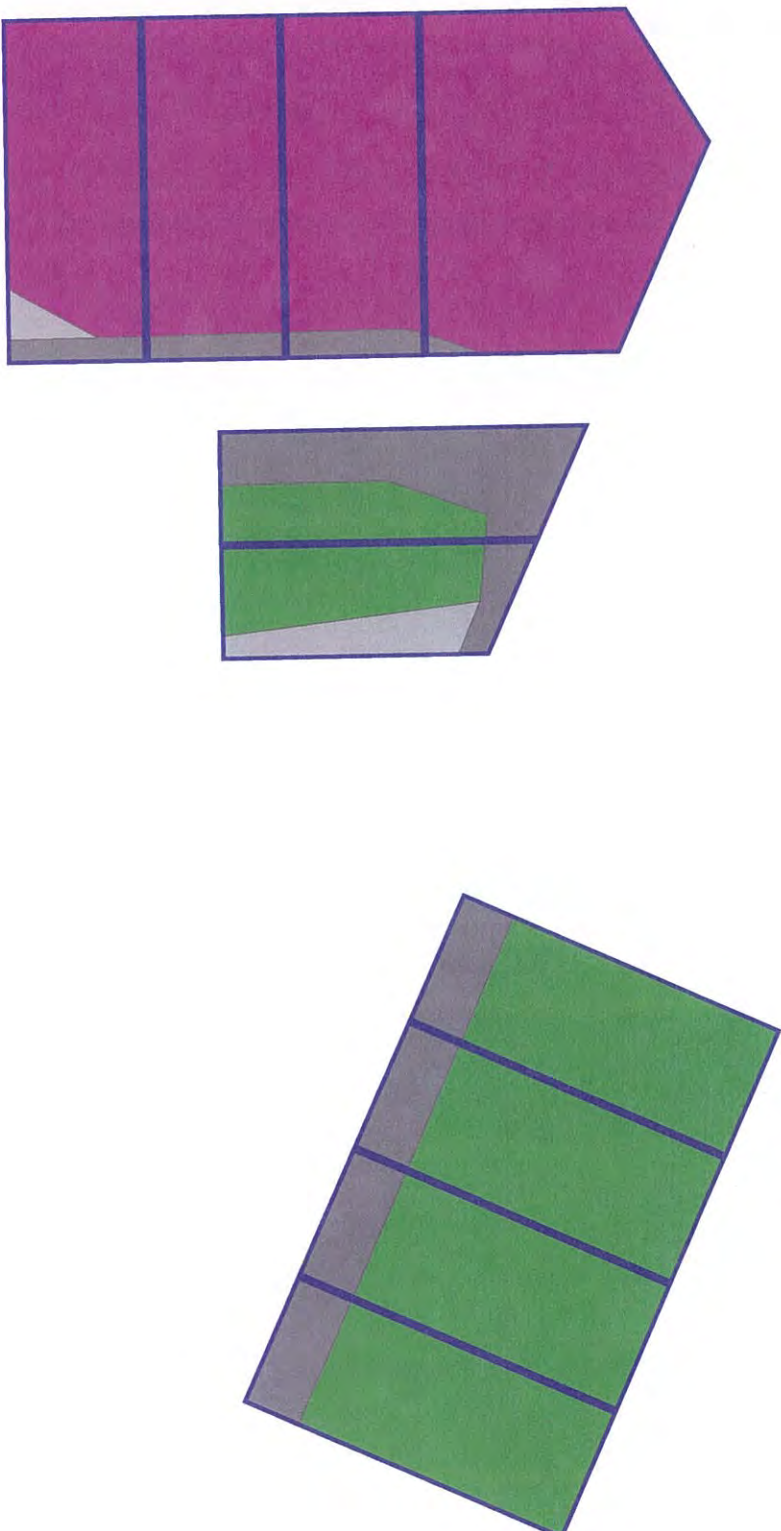
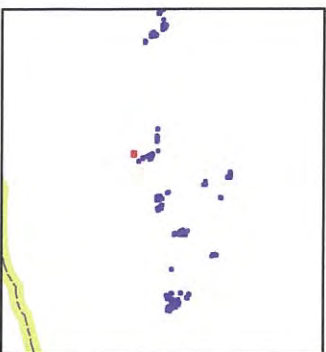
Summerland Key

Corresponds to parcels shown
on Map 8 in Appendix A

Land Use / Land Cover

-  Low Intensity Urban
-  Mangrove Swamp
-  Marine
-  Rockland Hammock
-  Transportation
-  County Boundary
-  Interstate
-  Turnpike
-  Major Highway
-  Local Road
-  Railroad [Inactive railroads shown in Gray]

Land cover and land use information
derived from
<http://www.fnai.org/LandCover.cfm>.
See webpage for more information.



0 37.5 75 150 225 300 Feet

Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



1018 Thomasville Road
Suite 200-C
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(850) 681-9364 Fax
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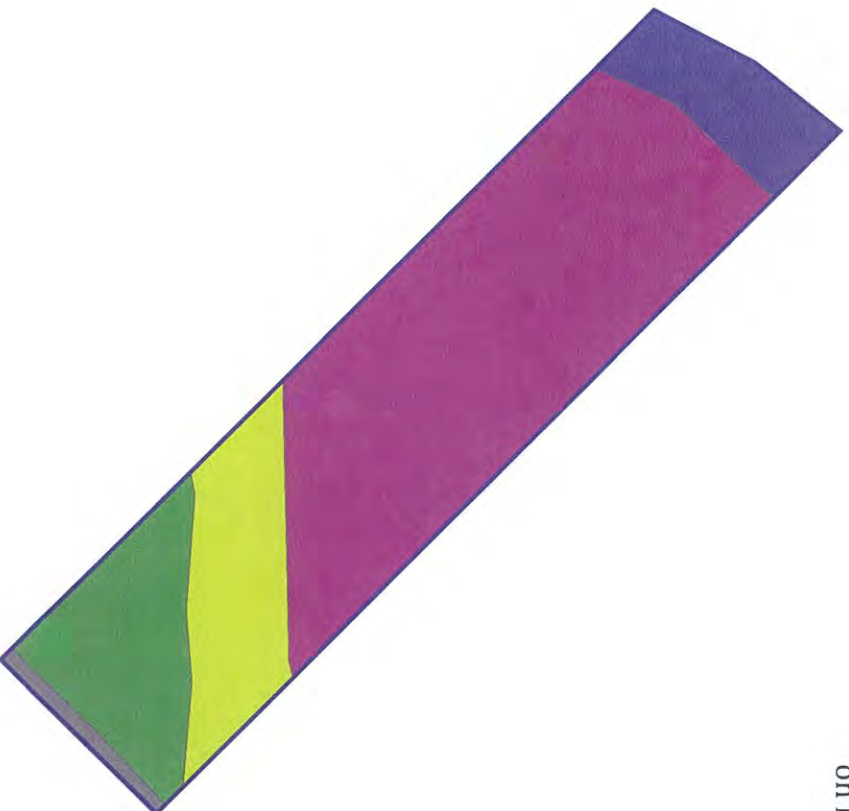
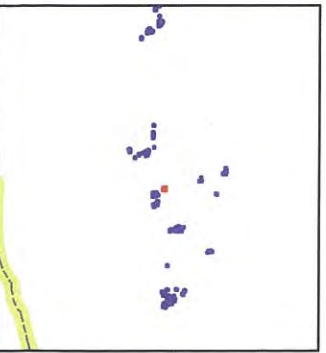
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

- Keys Tidal Rock Barren
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Corresponds to parcels shown on Map 9 in Appendix A

Ramrod Key



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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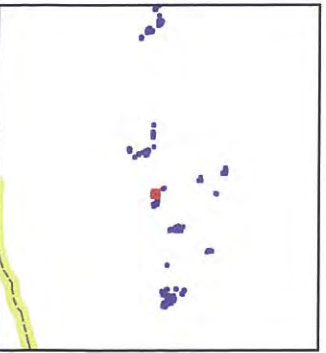
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

- High Intensity Urban
- Keys Tidal Rock Barren
- Low Intensity Urban
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from
<http://www.fnai.org/LandCover.cfm>.
See webpage for more information.



Ramrod Key

Corresponds to parcels shown
on Map 9 in Appendix A

0 50 100 200 300 400 Feet



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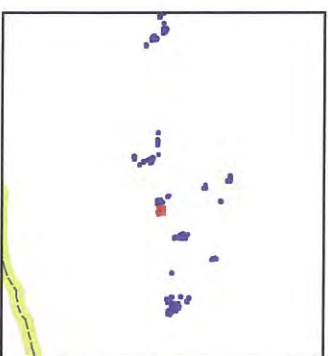
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

-  Cultural - Lacustrine
-  High Intensity Urban
-  Mangrove Swamp
-  Marine
-  Rockland Hammock
-  Transportation
-  County Boundary
-  Interstate
-  Turnpike
-  Major Highway
-  Local Road
-  Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



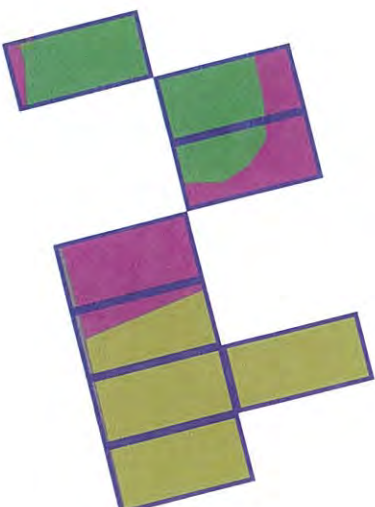
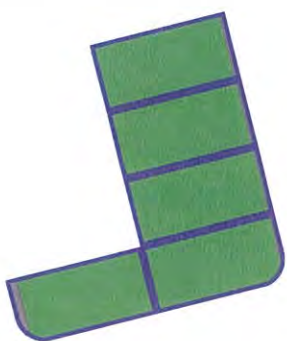
Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

Ramrod Key

Corresponds to parcels shown on Map 9 in Appendix A



0 50 100 200 300 400 Feet



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FLORIDA
Natural Areas
INVENTORY



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

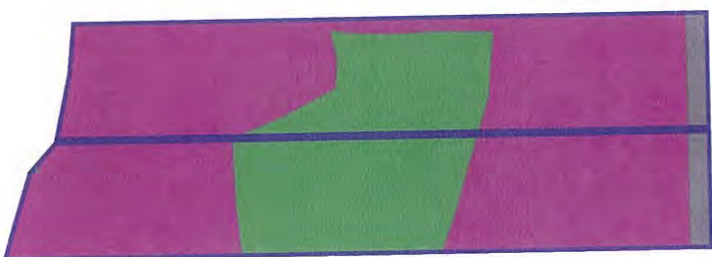
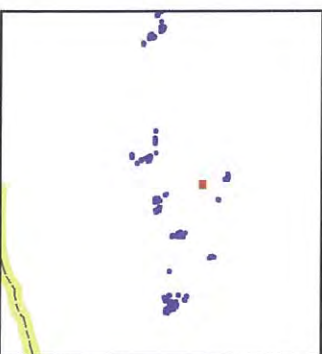
Torch Keys

Corresponds to parcels shown
on Map 10 in Appendix A

Land Use / Land Cover

- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information
derived from
<http://www.fnai.org/LandCover.cfm>.
See webpage for more information.



0 37.5 75 150 225 300 Feet

Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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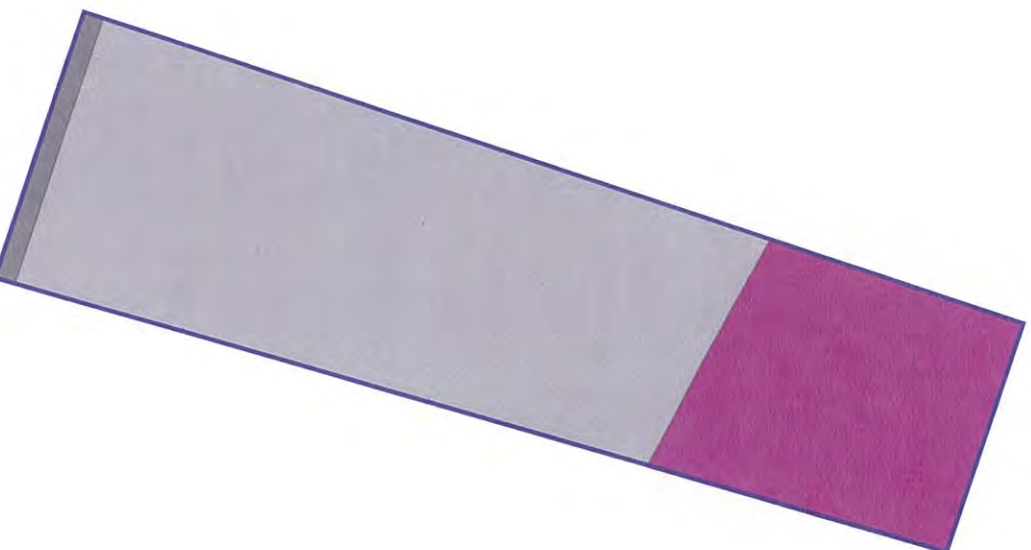
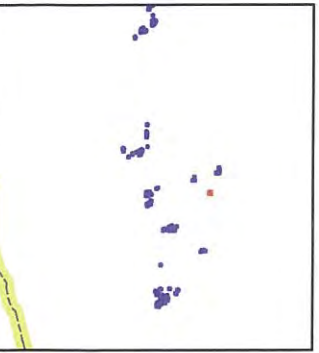
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

- Low Intensity Urban
- Mangrove Swamp
- Marine
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Corresponds to parcels shown on Map 10 in Appendix A

Torch Keys



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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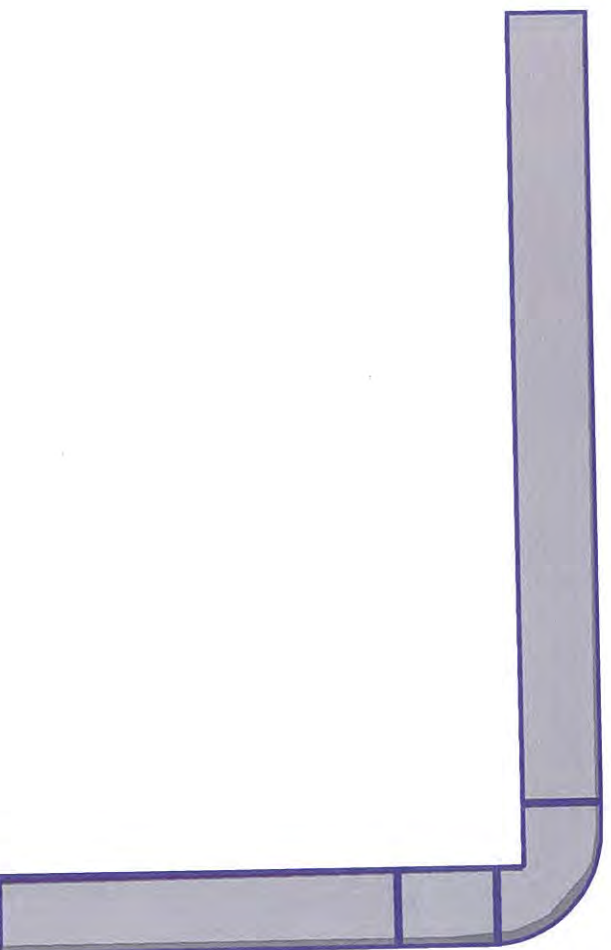
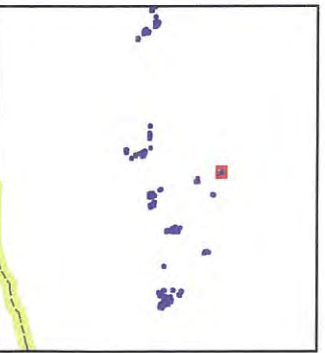
FLORIDA
Native Areas
INVENTORY



Land Use / Land Cover

- Cultural - Riverine
- Low Intensity Urban
- Marine
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Big Torch Key

Corresponds to parcels shown on Map 11 in Appendix A

0 62.5 125 250 375 500 Feet

Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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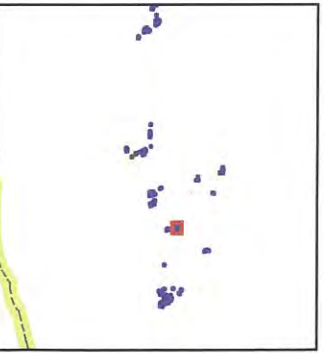
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

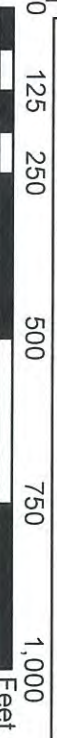
- Keys Tidal Rock Barren
- Low Intensity Urban
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Corresponds to parcels shown on Map 12 in Appendix A

Little Torch Key





Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

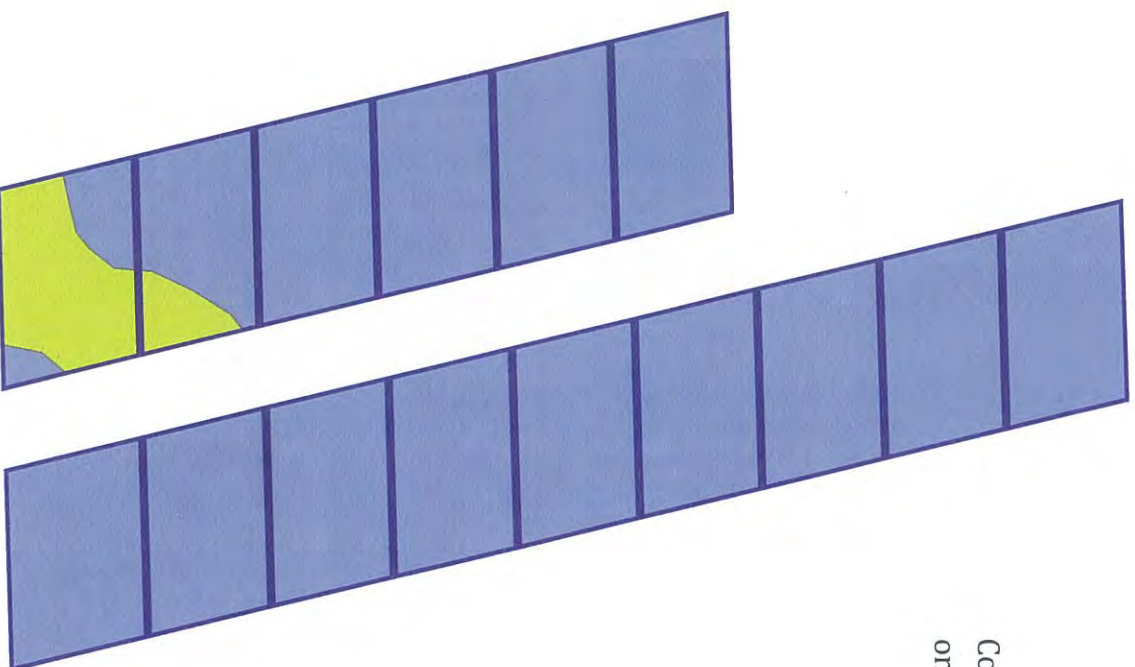
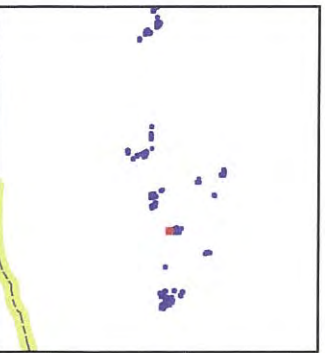
Little Torch Key

Corresponds to parcels shown
on Map 12 in Appendix A

Land Use / Land Cover

-  Estuarine
-  Keys Tidal Rock Barren
-  Marine
-  Transportation
-  County Boundary
-  Interstate
-  Turnpike
-  Major Highway
-  Local Road
-  Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



0 37.5 75 150 225 300 Feet

Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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(850) 681-9364 Fax
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FLORIDA
Natural Areas
INVENTORY



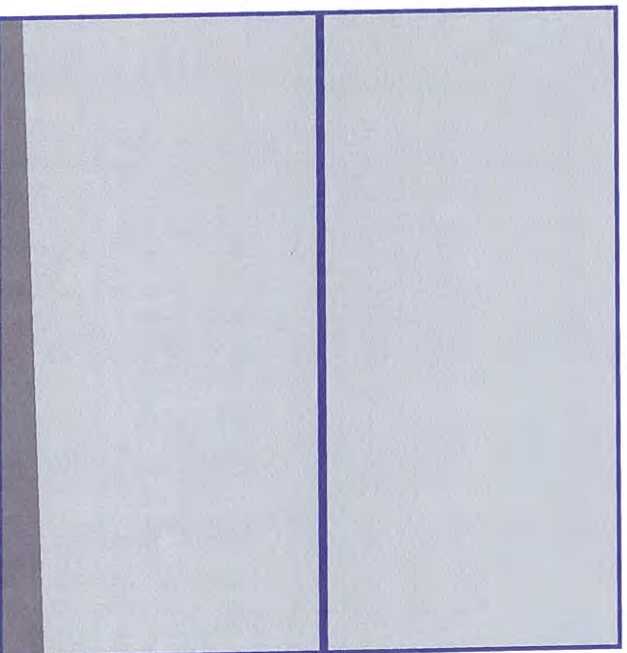
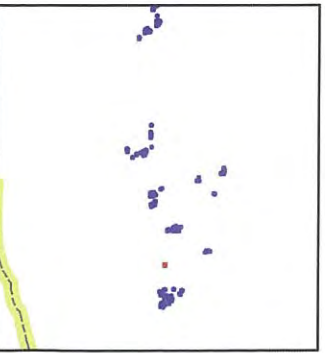
Big Pine Key

Corresponds to parcels shown
on Map 13 in Appendix A

Land Use / Land Cover

- High Intensity Urban
- Marine
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



0 12.5 25 50 75 100 Feet



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INVENTORY

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N



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

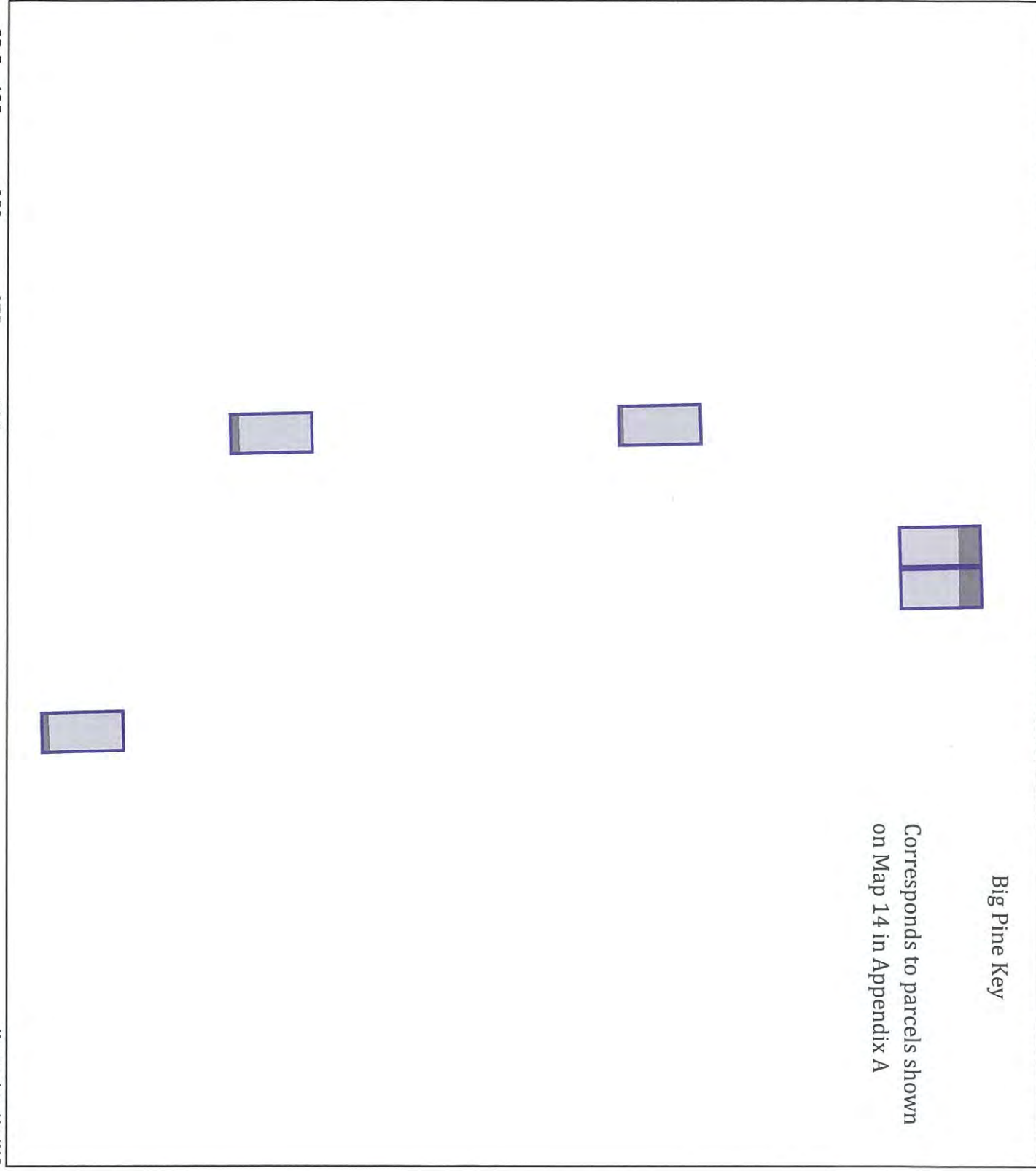
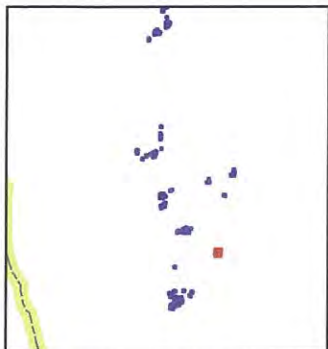
Big Pine Key

Corresponds to parcels shown on Map 14 in Appendix A

Land Use / Land Cover

- High Intensity Urban
- Marine
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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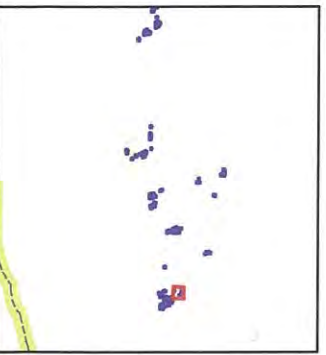
FLORIDA
Native Areas
INVENTORY



Land Use / Land Cover

- Cultural - Riverine
- High Intensity Urban
- Low Intensity Urban
- Mangrove Swamp
- Marine
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Big Pine Key

Corresponds to parcels shown on Map 15 in Appendix A

0 125 250 500 750 1,000 Feet

Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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FLORIDA
Natural Areas
INVENTORY

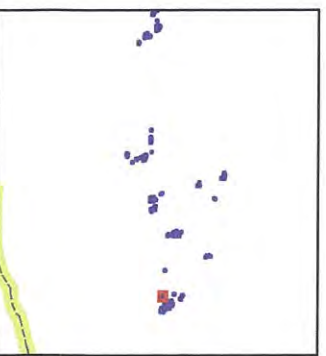


Land Use / Land Cover

- High Intensity Urban
- Low Intensity Urban
- Mangrove Swamp
- Marine
- Pine Rockland
- Transportation

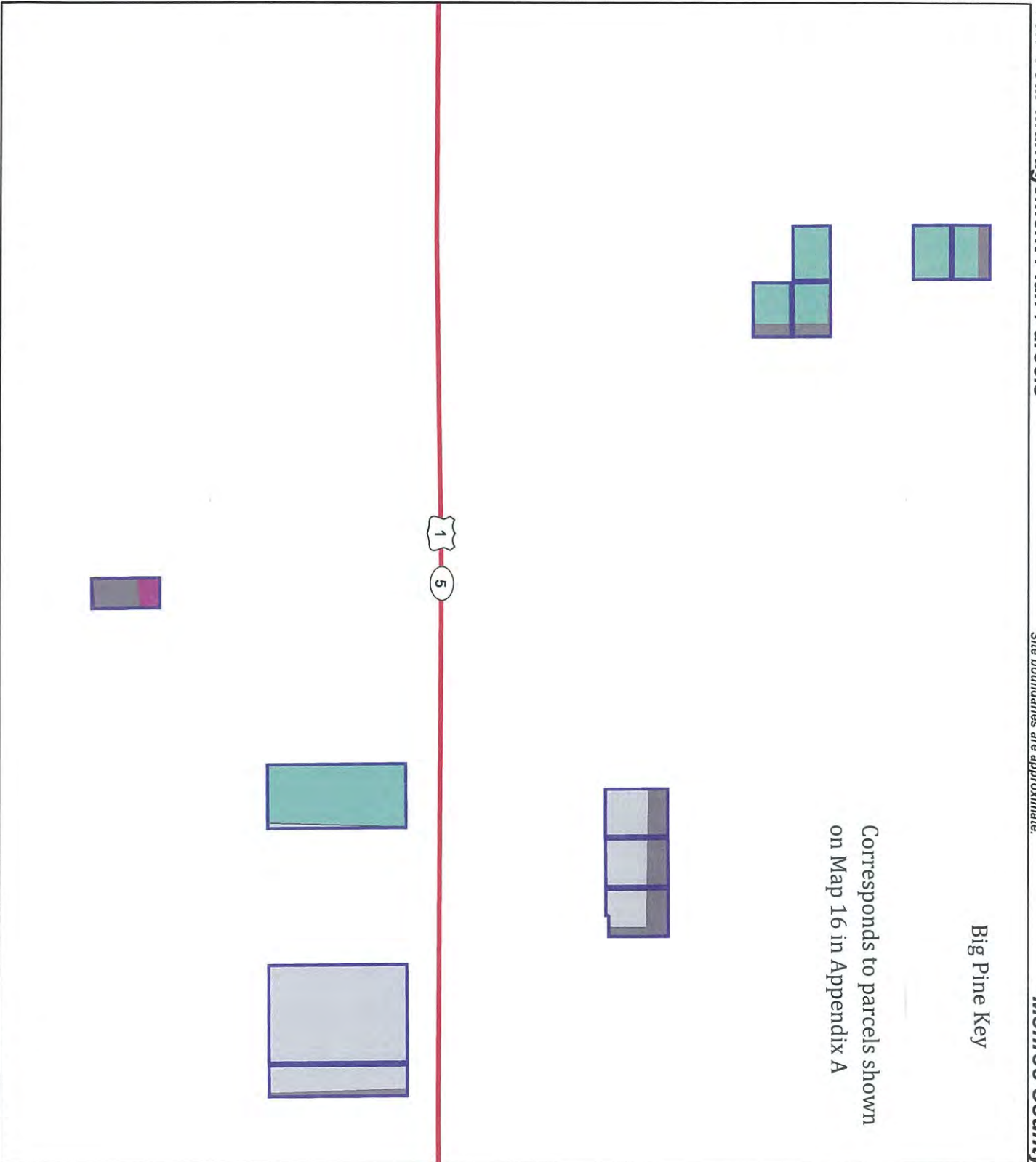
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Corresponds to parcels shown on Map 16 in Appendix A

Big Pine Key



0 62.5 125 250 375 500 Feet



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Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

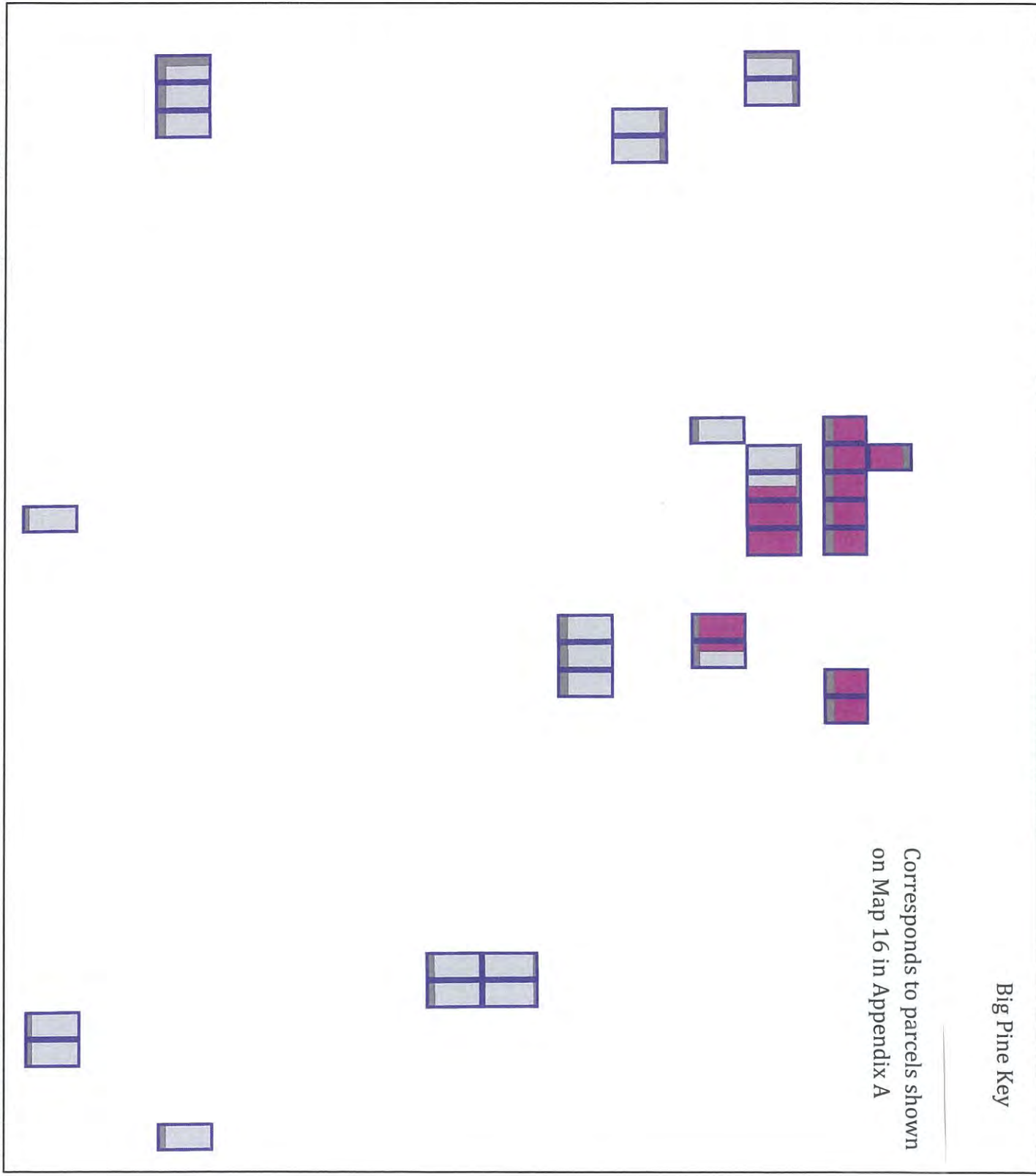
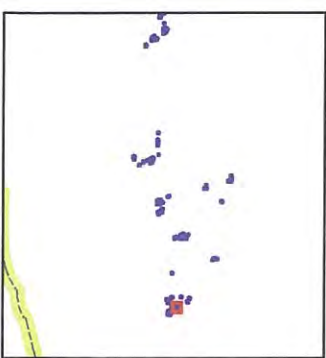
Big Pine Key

Corresponds to parcels shown
on Map 16 in Appendix A

Land Use / Land Cover

- Cultural - Riverine
- High Intensity Urban
- Mangrove Swamp
- Marine
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads
shown in Gray]

Land cover and land use information
derived from
<http://www.fnai.org/LandCover.cfm>.
See webpage for more information.



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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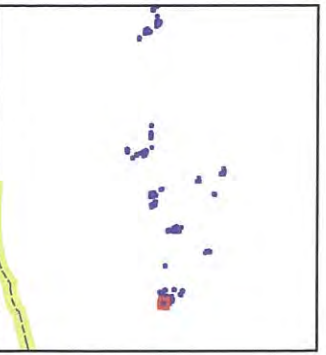
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

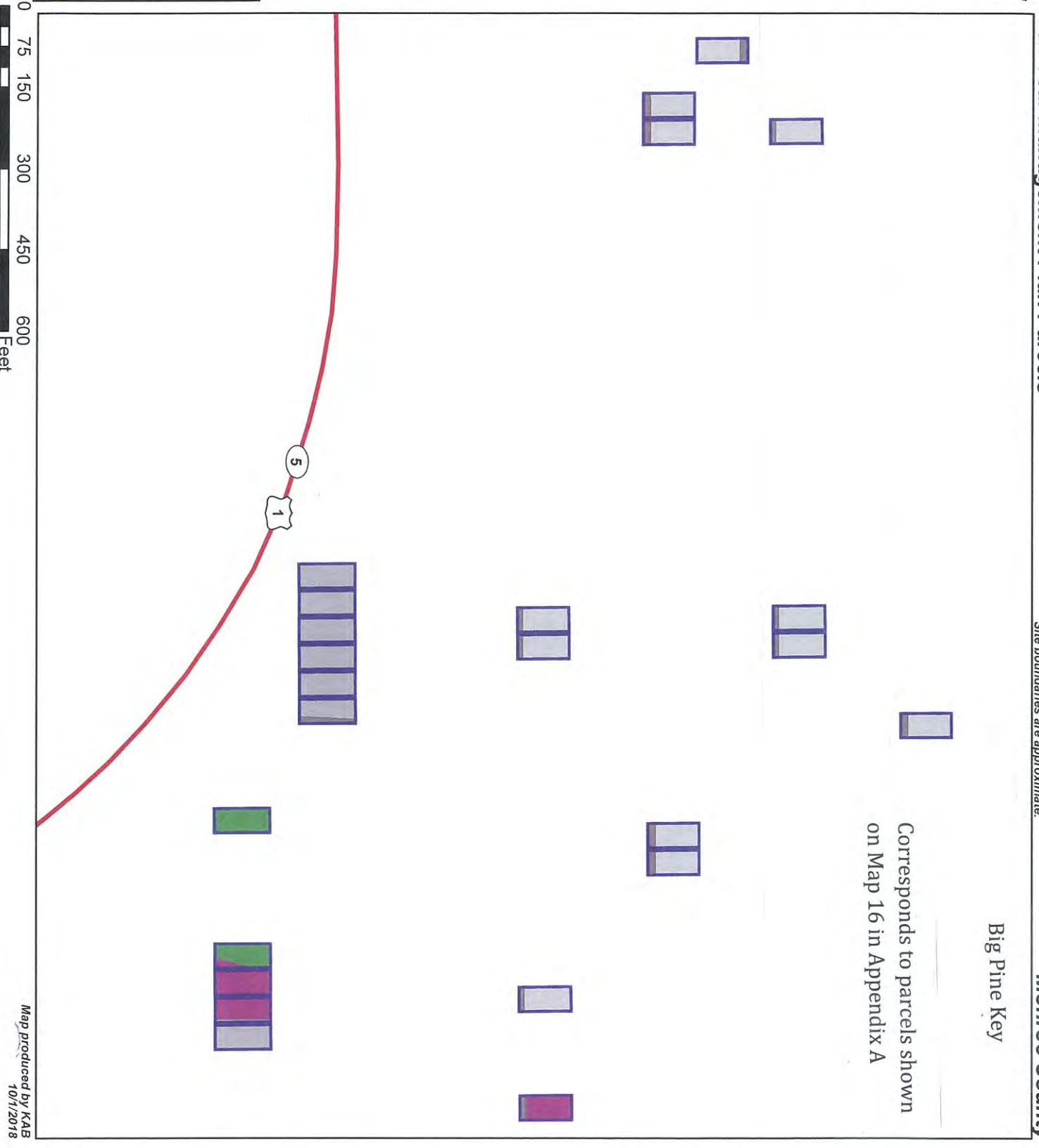
- High Intensity Urban
- Low Intensity Urban
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Corresponds to parcels shown on Map 16 in Appendix A

Big Pine Key



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

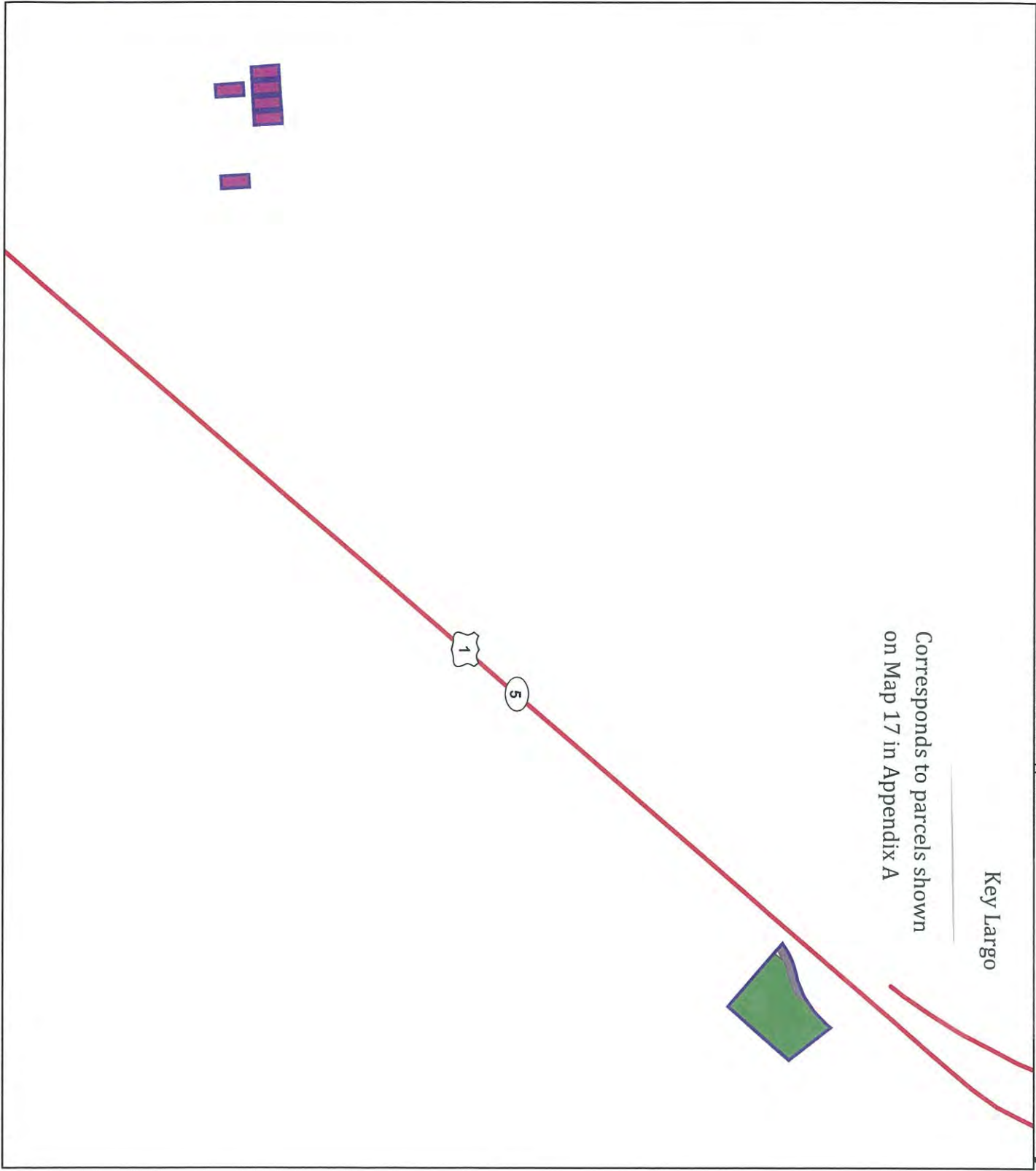
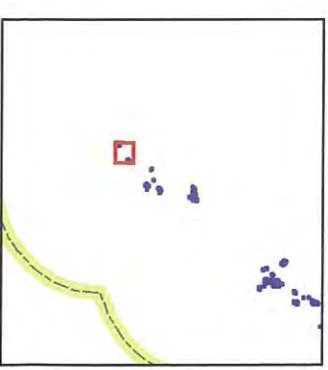
Key Largo

Corresponds to parcels shown
 on Map 17 in Appendix A

Land Use / Land Cover

- High Intensity Urban
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



0 125 250 500 750 1,000 Feet



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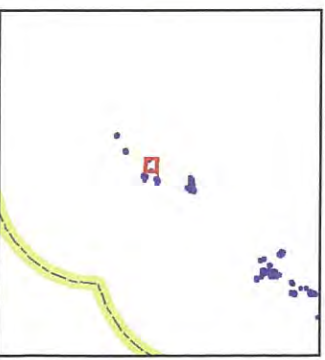
FLORIDA
Natural Areas
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Land Use / Land Cover

-  High Intensity Urban
-  Keys Tidal Rock Barren
-  Mangrove Swamp
-  Marine
-  Rockland Hammock
-  Transportation
-  County Boundary
-  Interstate
-  Turnpike
-  Major Highway
-  Local Road
-  Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



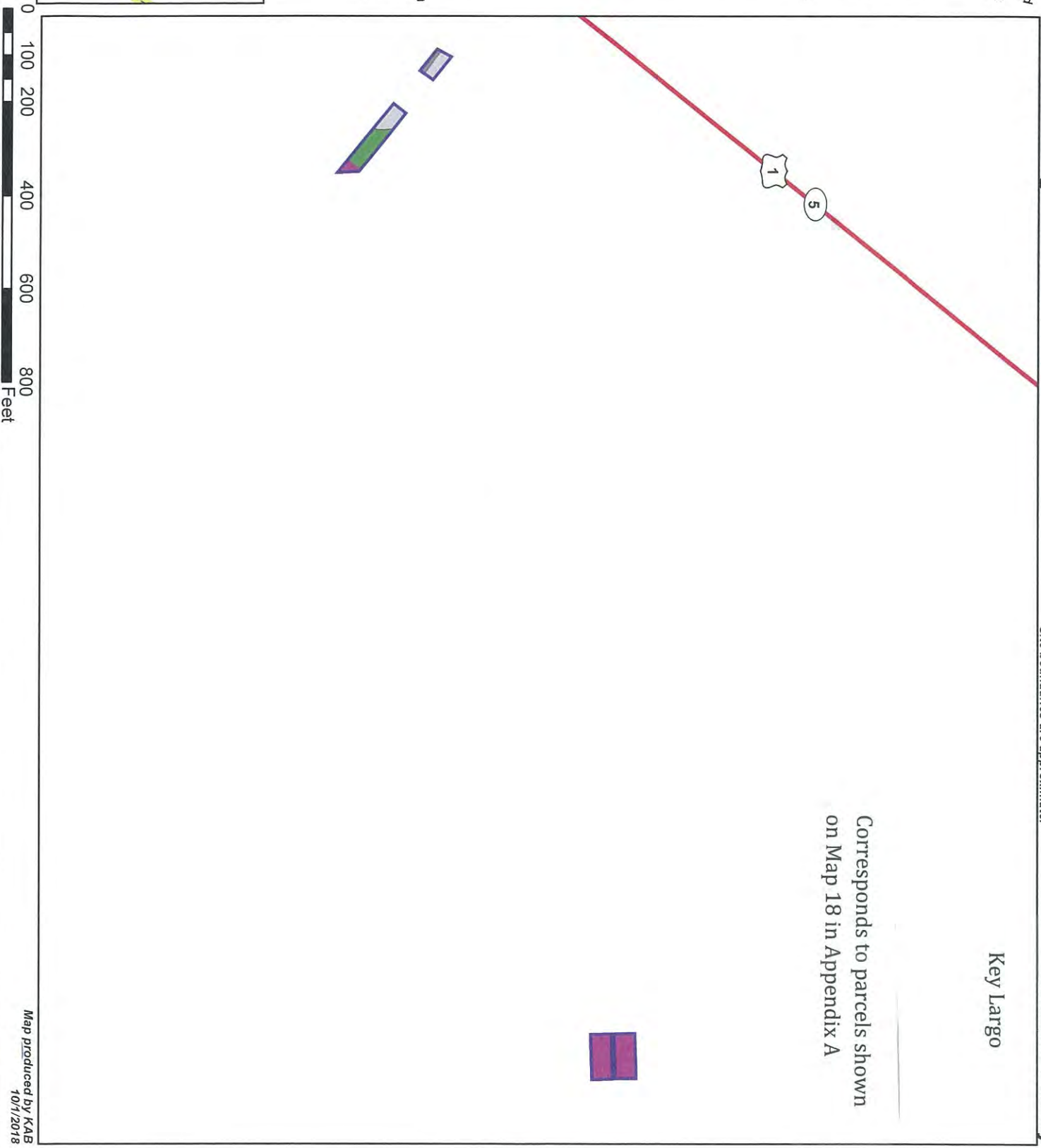
Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

Key Largo

Corresponds to parcels shown on Map 18 in Appendix A



Ten Year Management Plan Parcels

Site boundaries are approximate.

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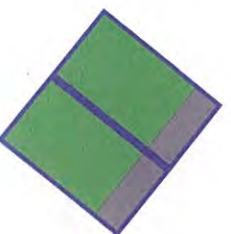
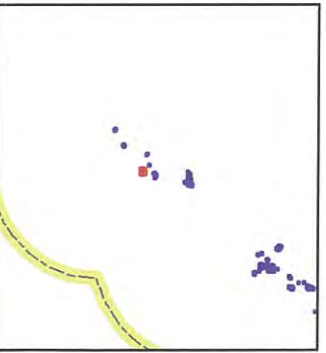
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

- Low Intensity Urban
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



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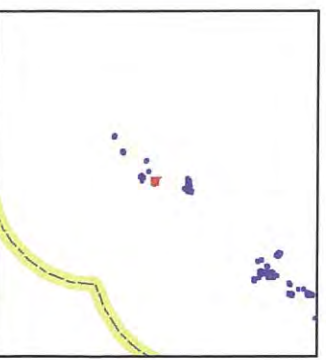
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Corresponds to parcels shown on Map 18 in Appendix A

Key Largo

0 37.5 75 150 225 300 Feet

Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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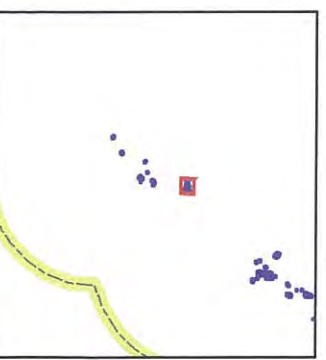
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

- High Intensity Urban
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- Unconsolidated Substrate
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Corresponds to parcels shown on Map 19 in Appendix A

Key Largo

0 100 200 400 600 800 Feet

Map produced by KAB
10/1/2018



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Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

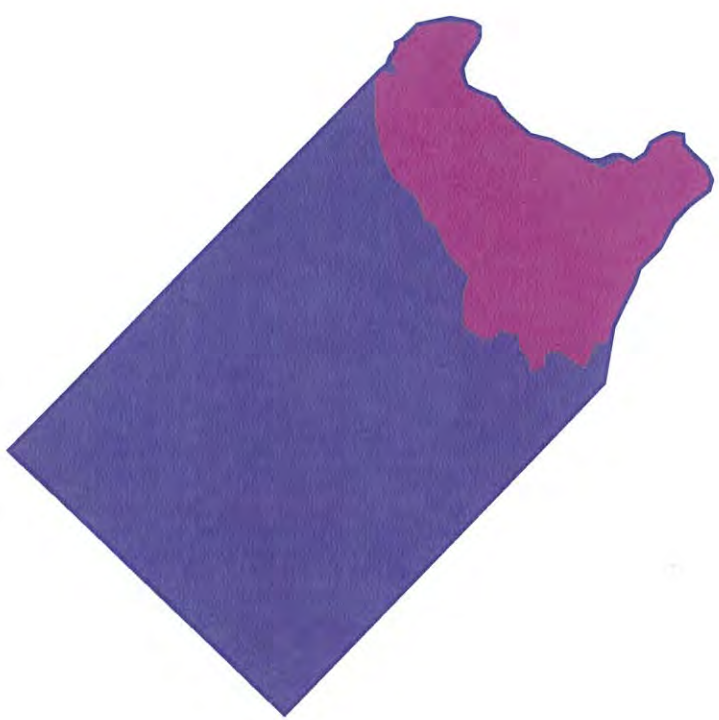
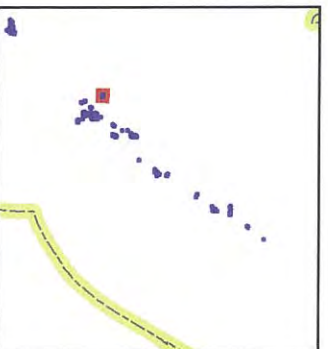
Key Largo

Corresponds to parcels shown
on Map 20 in Appendix A

Land Use / Land Cover

- Mangrove Swamp
- Marine
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Ten Year Management Plan Parcels

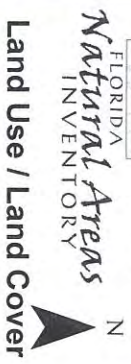
Site boundaries are approximate.

Monroe County



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FLORIDA
Native Areas
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Land Use / Land Cover

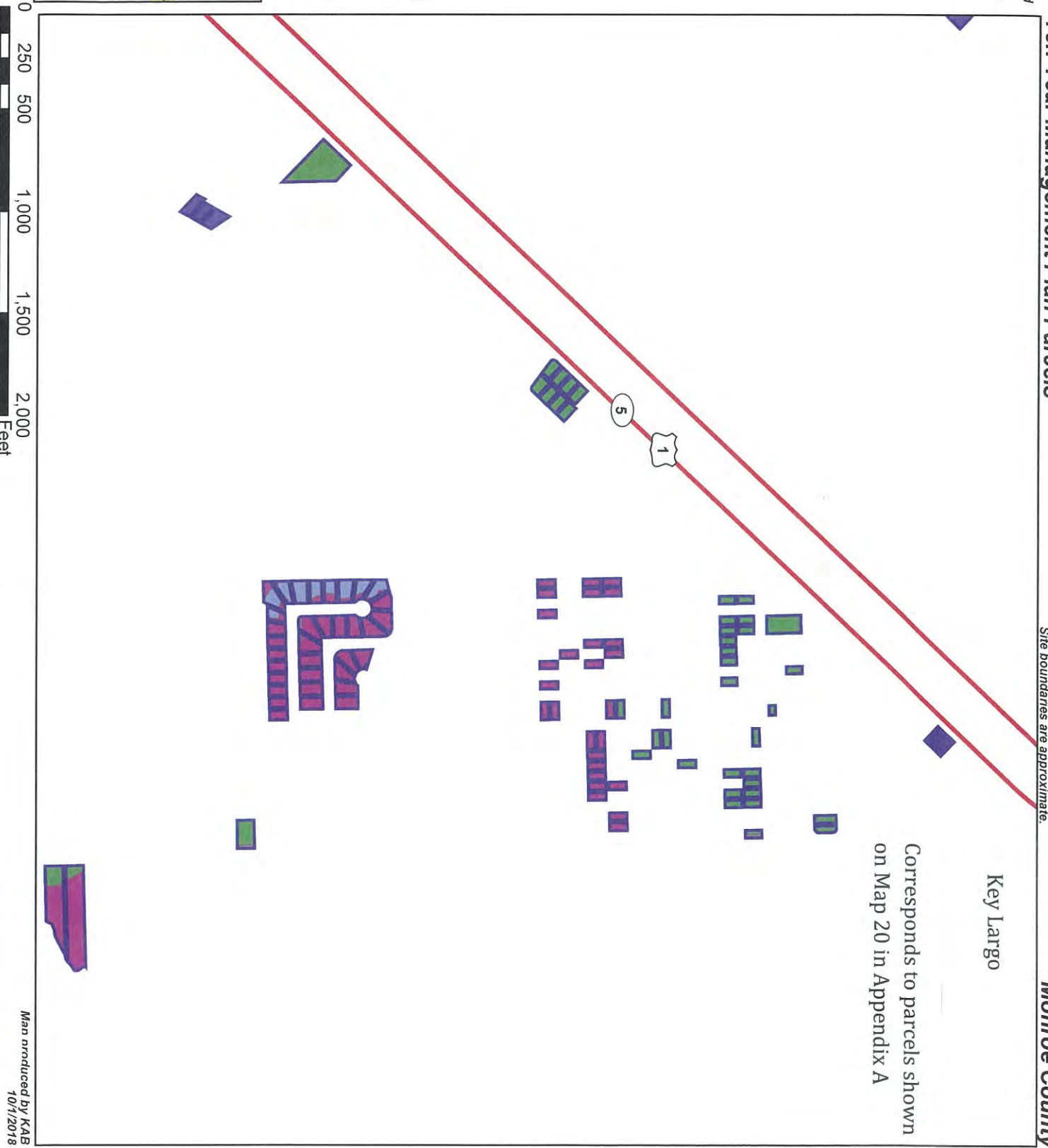
- Cultural - Riverine
- Estuarine
- High Intensity Urban
- Low Intensity Urban
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Corresponds to parcels shown on Map 20 in Appendix A

Key Largo





Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

Land Use / Land Cover

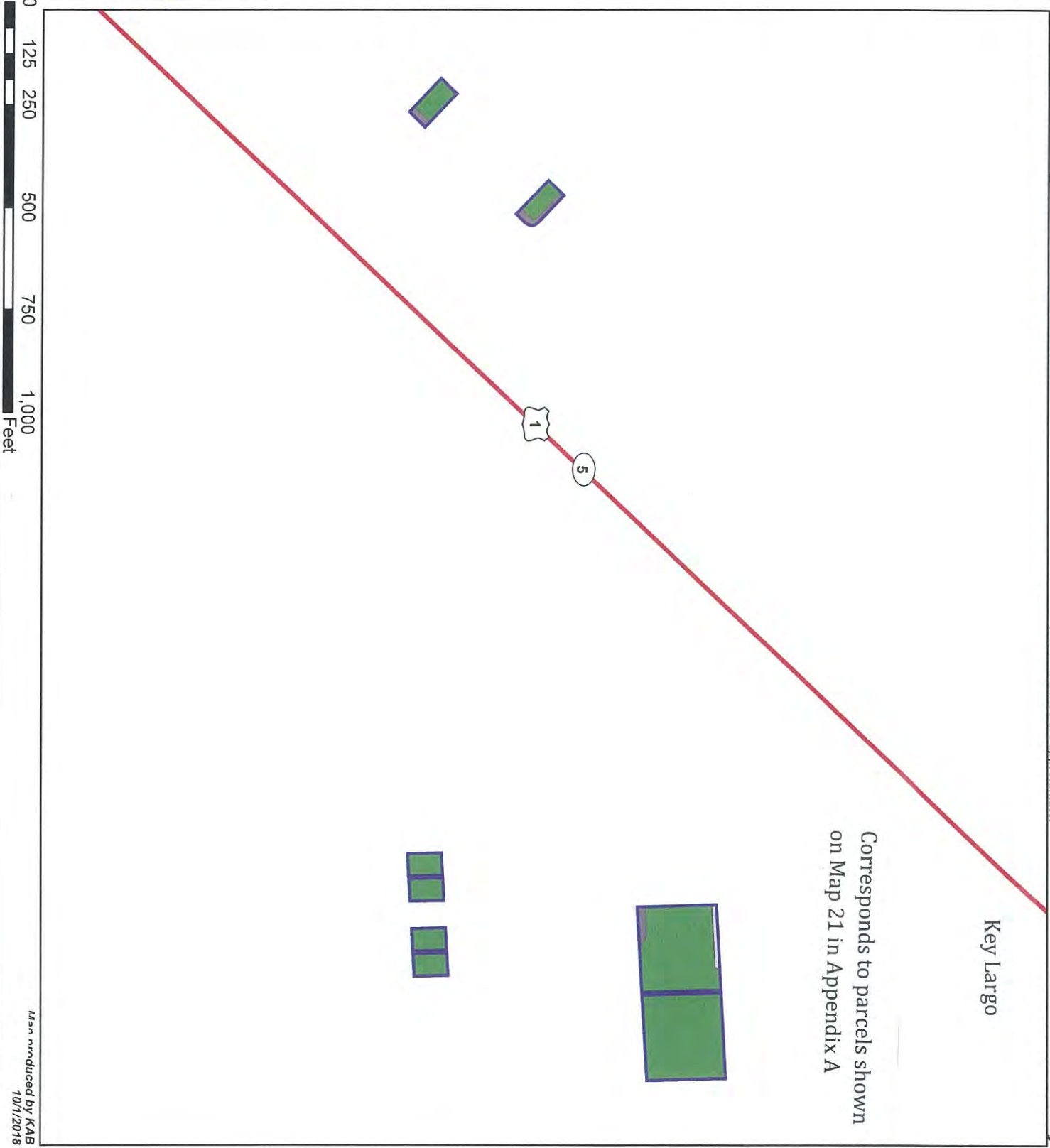
-  High Intensity Urban
-  Marine
-  Rockland Hammock
-  Transportation
-  County Boundary
-  Interstate
-  Turnpike
-  Major Highway
-  Local Road
-  Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Corresponds to parcels shown on Map 21 in Appendix A

Key Largo



Ten Year Management Plan Parcels

Site boundaries are approximate.

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Native Areas
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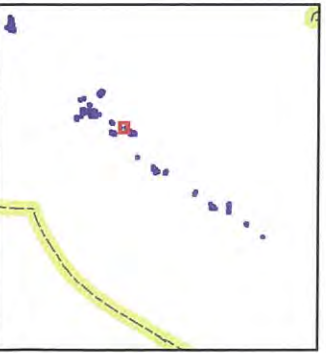
Key Largo

Corresponds to parcels shown
on Maps 21 & 22 in Appendix A

Land Use / Land Cover

- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information
derived from
<http://www.fnai.org/LandCover.cfm>.
See webpage for more information.

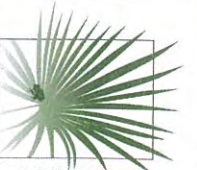


0 62.5 125 250 375 500 Feet

Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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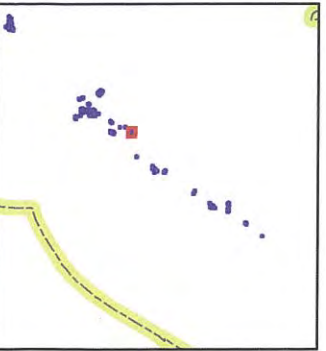
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

- Mangrove Swamp
- Marine
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Key Largo

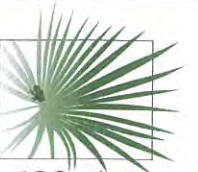
Corresponds to parcels shown on Map 22 in Appendix A



Ten Year Management Plan Parcels

Site boundaries are approximate.

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FLORIDA
Natural Areas
INVENTORY

N

Land Use / Land Cover

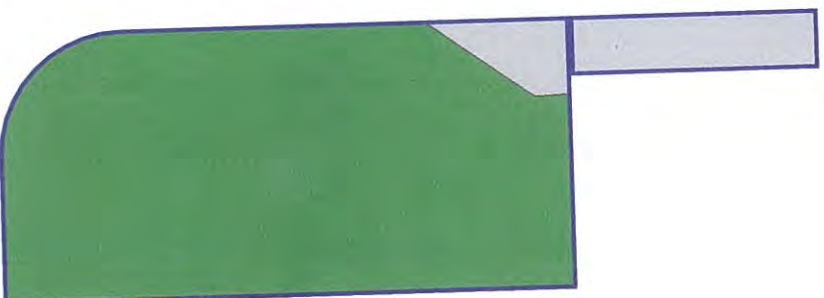
- High Intensity Urban
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Corresponds to parcels shown on Map 22 in Appendix A

Key Largo





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FLORIDA

Natural Areas

INVENTORY

N



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

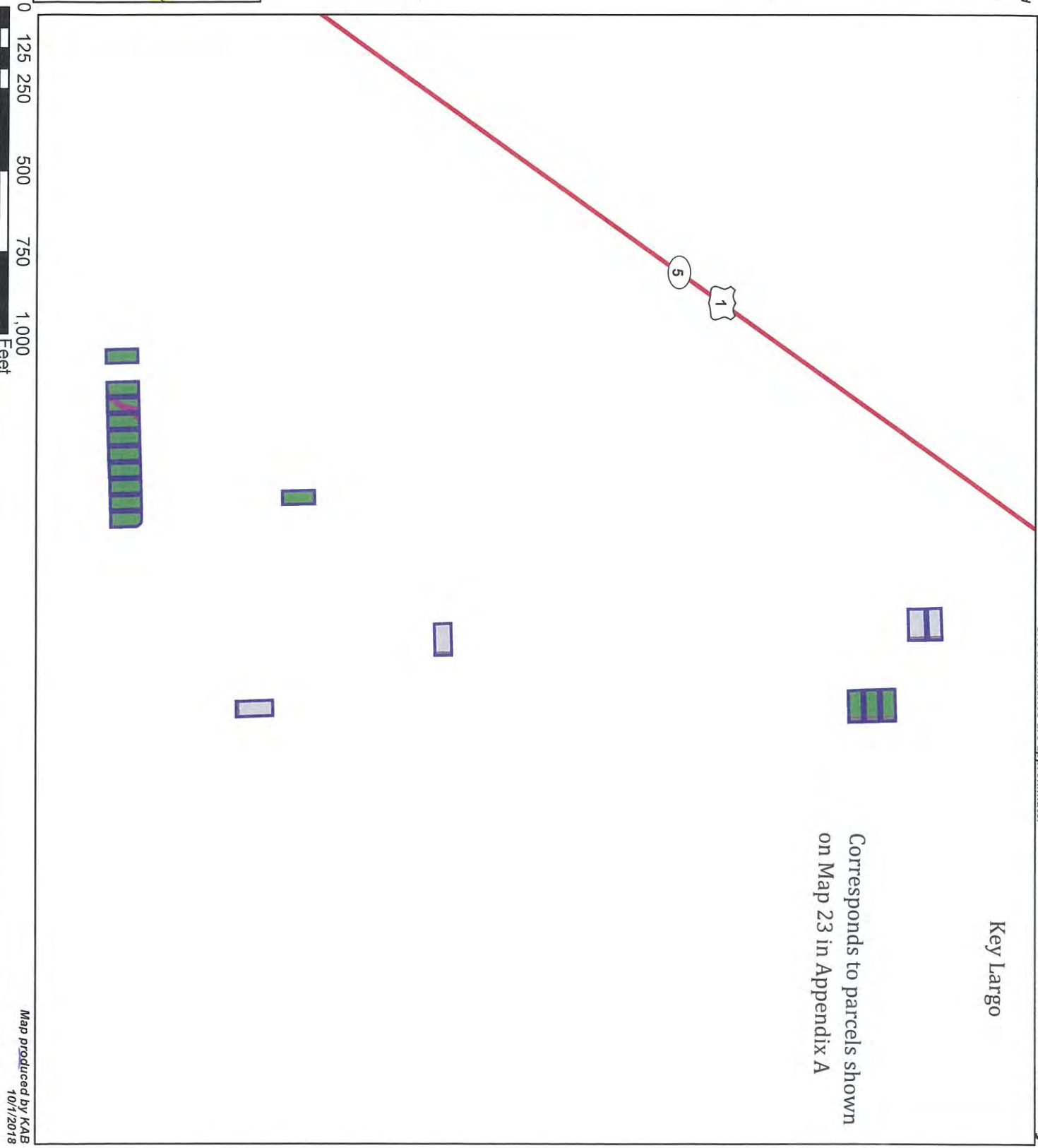
Key Largo

Corresponds to parcels shown on Map 23 in Appendix A

Land Use / Land Cover

- High Intensity Urban
- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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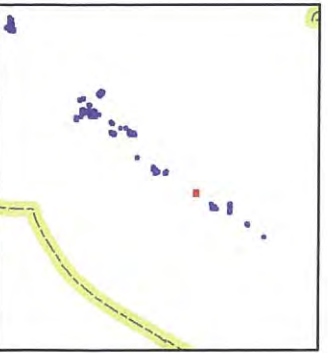
FLORIDA
Natural Areas
INVENTORY



Land Use / Land Cover

- High Intensity Urban
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

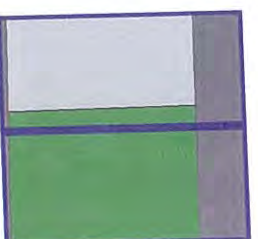
Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



0 25 50 100 150 200 Feet

Corresponds to parcels shown on Map 24 in Appendix A

Key Largo





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Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

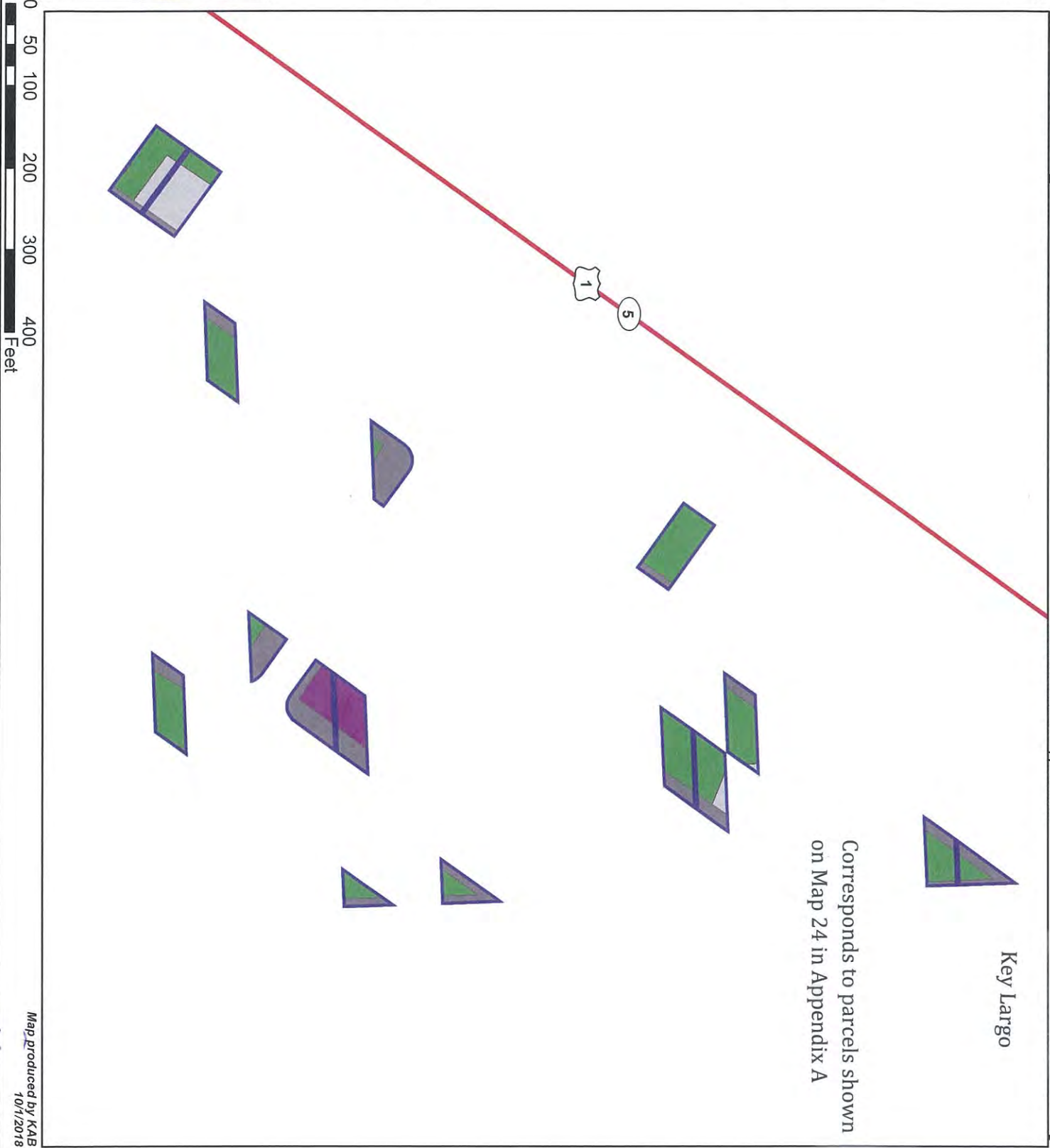
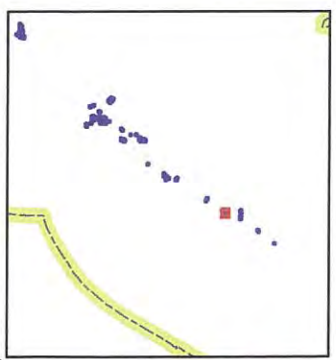
Key Largo

Corresponds to parcels shown on Map 24 in Appendix A

Land Use / Land Cover

- Exotic Plants
- High Intensity Urban
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County



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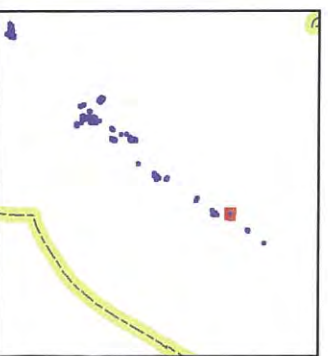
FLORIDA
Native Areas
INVENTORY



Land Use / Land Cover

- Mangrove Swamp
- Marine
- Rockland Hammock
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from
<http://www.fnai.org/LandCover.cfm>.
See webpage for more information.



Corresponds to parcels shown on Map 25 in Appendix A

Key Largo

0 62.5 125 250 375 500 Feet



Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

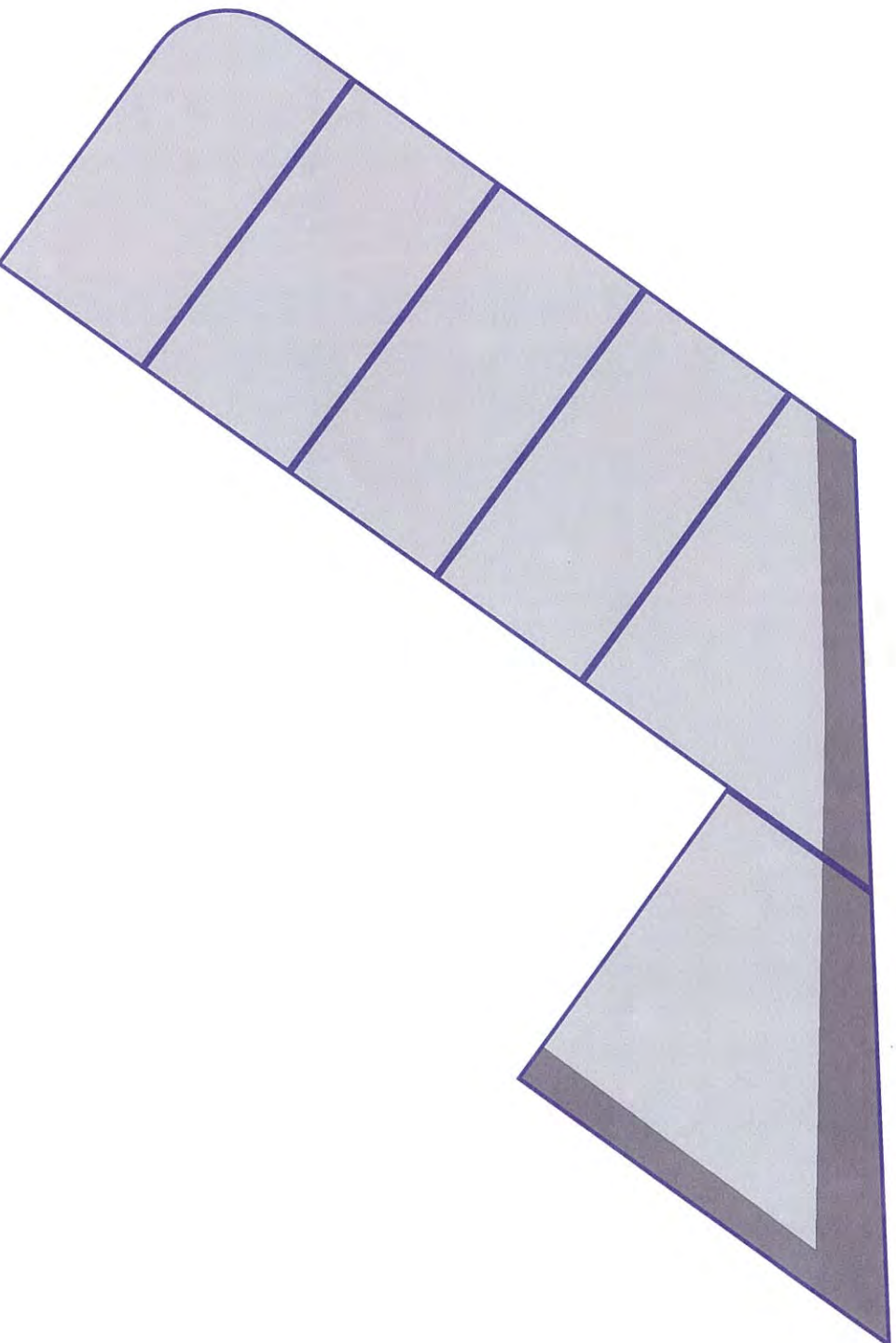
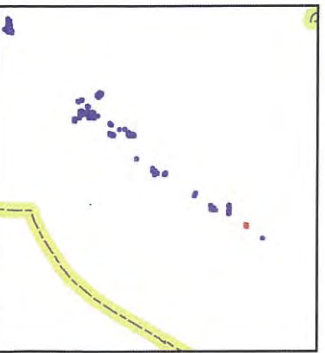
Key Largo

Corresponds to parcels shown
on Map 25 in Appendix A

Land Use / Land Cover

-  High Intensity Urban
-  Marine
-  Transportation
-  County Boundary
-  Interstate
-  Turnpike
-  Major Highway
-  Local Road
-  Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.





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Ten Year Management Plan Parcels

Site boundaries are approximate.

Monroe County

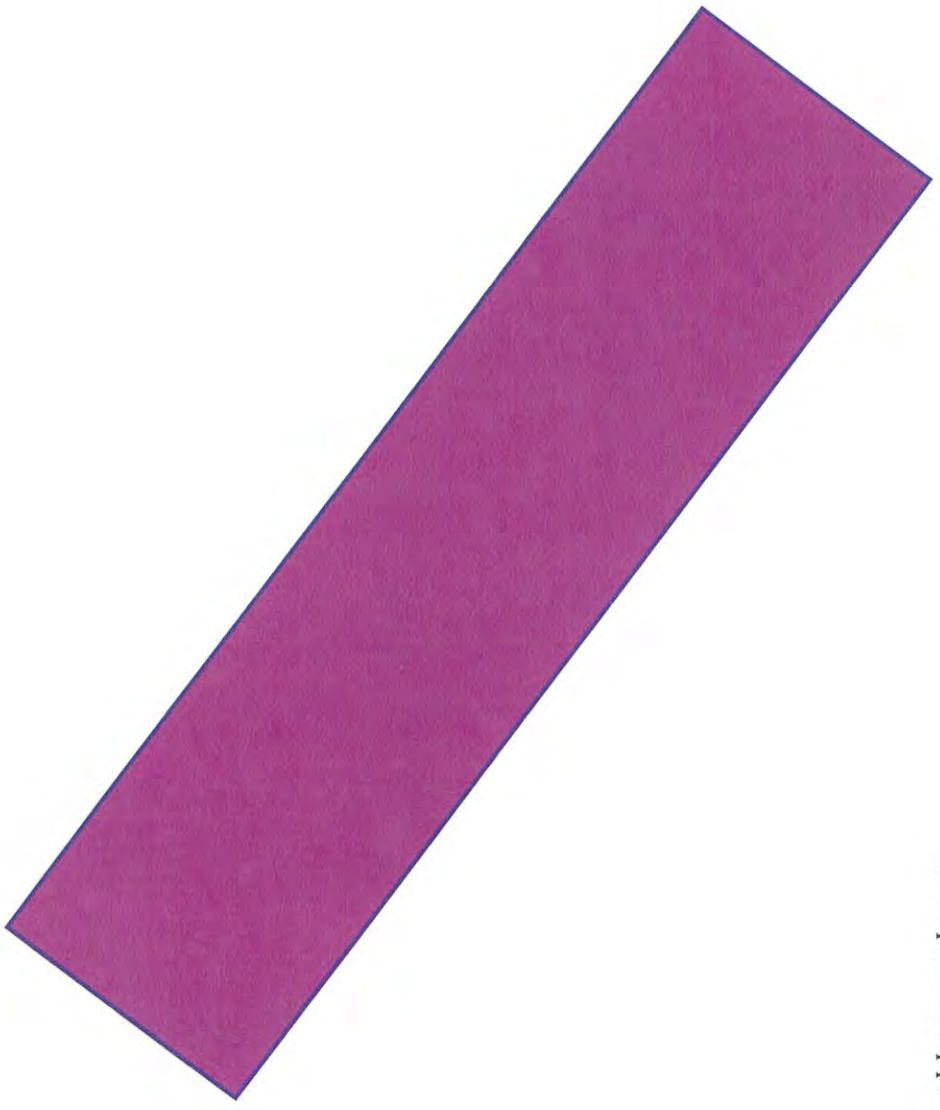
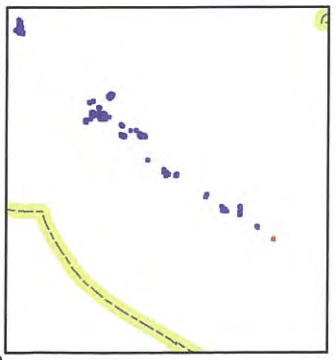
Key Largo

Corresponds to parcels shown
on Map 26 in Appendix A

Land Use / Land Cover

- Mangrove Swamp
- Marine
- Transportation
- County Boundary
- Interstate
- Turnpike
- Major Highway
- Local Road
- Railroad [Inactive railroads shown in Gray]

Land cover and land use information derived from <http://www.fnai.org/LandCover.cfm>. See webpage for more information.



Bergh-Beth

From: Kerri Brinegar <kbrinegar@fnai.fsu.edu>
Sent: Wednesday, October 03, 2018 11:30 AM
To: Bergh-Beth
Subject: RE: Update to 10 yr management plan
Attachments: FNAI_EO_polygon_tutorial_2015.pdf; Rank_and_Status_Explanation_20150106.pdf; FNAI_FLEO_10904.lpk

Beth,

Please see attached...

Per your request on 10/03/18 I have put together an Element Occurrence shapefile for: Monroe County.

This data is made available at no charge due to funding from the Florida Department of Environmental Protection, Division of State Lands.

We are now distributing the data as polygons rather than points. The polygons are a more accurate representation of the data, so we would encourage their use, especially in analyses. Please take a look at the attached tutorial presentation to learn about why we have made this change. With the polygon shapefile, we have included three layer files that will symbolize the data in some potentially useful ways.

The data is bundled in a layer package that contains three layer files and a shapefile of the Florida Elements Occurrences for your area of interest. Layer packages are an ESRI product, if you utilize an opensource GIS please let us know and we will send you a shapefile instead. To unpack a layer package, either drag the .lpk file into ArcMap or right-click the .lpk file and select Unpack. Alternatively, you can use the [Extract Package](#) tool and specify an output folder.

By default, Unpack will always extract the package into your user profile under:

- **XP**—C:\Documents and Settings\<username>\My Documents\ArcGIS\Packages
- **Vista and Windows 7**—C:\Users\<username>\Documents\ArcGIS\Packages

To change the default location of where your packages will be unpacked, open ArcMap Options from the Customize menu. From the Sharing tab find the Packaging section and check Use user specified location and browse to the new folder location.

If you have any updated or additional data for these areas, we would always value that contribution; details of how to submit data can be found here: <http://www.fnai.org/fieldreportingforms.cfm>. Please feel free to contact me with any questions or concerns you may have.

Kerri Brinegar

GIS / Data Services Analyst
Florida Natural Areas Inventory
1018 Thomasville Road, Suite 200-C
Tallahassee, FL 32303
(850) 224-8207 ext. 211
Fax: (850) 681-9364
kbrinegar@fnai.fsu.edu
www.fnai.org
[Tracking Florida's Biodiversity](#)

From: Bergh-Beth <Bergh-Beth@monroecounty-fl.gov>
Sent: Wednesday, October 03, 2018 10:43 AM
To: Kerri Brinegar <kbrinegar@fnai.fsu.edu>
Subject: RE: Update to 10 yr management plan

I agree

Beth Bergh

Monroe County Land Steward
2798 Overseas Hwy, Suite 400
Marathon, FL 33050

phone: 305.289.2511
fax: 305.289.2854
bergh-beth@monroecounty-fl.gov

From: Kerri Brinegar [<mailto:kbrinegar@fnai.fsu.edu>]
Sent: Wednesday, October 03, 2018 10:42 AM
To: Bergh-Beth
Subject: RE: Update to 10 yr management plan

Hi Beth,

Here is the GIS data agreement for Monroe County:

Rare species and natural community data provided by the Florida Natural Areas Inventory contain sensitive information that is frequently updated. Therefore, we request that all parties who receive a copy of our data agree not to distribute their copy to any third party. Anyone interested in obtaining a copy of FNAI data should contact FNAI directly for more information. Do not display combinations of precise locations and species identification on any public media or reports. Any products, publications, or presentations based in whole or in part on FNAI Data should cite FNAI as a data source and should indicate the release date of the version of the data used. These data should be considered current and valid for no more than one year from date of receipt.

Please reply with "I Agree." Upon receipt I will process your request.

Thanks,

Kerri Brinegar

GIS / Data Services Analyst
Florida Natural Areas Inventory
1018 Thomasville Road, Suite 200-C
Tallahassee, FL 32303
(850) 224-8207 ext. 211
Fax: (850) 681-9364
kbrinegar@fnai.fsu.edu
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Tracking Florida's Biodiversity

APPENDIX C

*Correspondence with Division of Historical Resources
State Lands Lease No. 4549*



This record search is for informational purposes only and does NOT constitute a project review. This search only identifies resources recorded at the Florida Master Site File and does NOT provide project approval from the Division of Historical Resources. Contact the Compliance and Review Section of the Division of Historical Resources at 850-245-6333 for project review information.

October 1, 2018



Beth Bergh

Monroe County

2798 Overseas Hwy, Suite 400

Marathon, FL 33050

Phone: 305.289.2511

Email: Bergh-beth@monroecounty-fl.gov

In response to your inquiry of September 28, 2018 the Florida Master Site File lists two archaeological sites, two resource groups, and no standing structures found in the following section of Monroe County:

Parcels outlined by provided shapefiles.

When interpreting the results of our search, please consider the following information:

- This search area may contain *unrecorded* archaeological sites, historical structures or other resources even if previously surveyed for cultural resources.
- Because vandalism and looting are common at Florida sites, we ask that you limit the distribution of location information on archaeological sites.
- While many of our records document historically significant resources, the documentation of a resource at the Florida Master Site File does not necessarily mean the resource is historically significant.
- Federal, state and local laws require formal environmental review for most projects. This search DOES NOT constitute such a review. If your project falls under these laws, you should contact the Compliance and Review Section of the Division of Historical Resources at 850-245-6333.

Please do not hesitate to contact us if you have any questions regarding the results of this search.

Sincerely,

Cody VanderPloeg

Archaeological Data Analyst

Florida Master Site File

Cody.VanderPloeg@dos.myflorida.com

APPENDIX D

*Letter of Compliance from the Monroe County Planning Department
State Lands Lease No. 4549*

County of Monroe

The Florida Keys



BOARD OF COUNTY COMMISSIONERS

Mayor Sylvia J. Murphy, District 5
Mayor Pro Tem Danny L. Kolhage, District 1
Michelle Coldiron, District 2
Heather Carruthers, District 3
David Rice, District 4

May 9, 2019

Florida Department of Environmental Protection
Division of State Lands
Bureau of Public Lands Administration, Mail Station 130
Tallahassee, Florida 32399-3000

Re: Draft 2018-2028 Monroe County Conservation Lands Management Plan

Dear Sir or Madam:

The Monroe County Department of Planning and Environmental Resources has reviewed the proposed 2018-2028 Monroe County Conservation Lands Management Plan and has found that it is in compliance with the Monroe County 2030 Comprehensive Plan. The proposed Management Plan furthers the goals and objectives of the Comprehensive Plan including, but not limited to, the following:

GOAL 204

The health and integrity of Monroe County's marine and freshwater wetlands shall be protected and, where possible, restored and enhanced.

Policy 204.1.1

Monroe County may coordinate with other agencies in developing and administering a wetlands restoration program.

Policy 204.1.2

Monroe County shall work cooperatively with the USACE, EPA, FWS, FDEP and FWC, and others as appropriate, to determine funding sources to support a wetlands restoration program. [F.S. § 163.3177(6)d.2.j., k.]

Policy 204.1.3

Monroe County shall coordinate with the FWC to update as needed and maintain the existing freshwater wetlands and disturbed wetlands mapping.

Objective 204.3

Monroe County shall maintain a program for acquiring or restoring high quality wetlands. (See Future Land Use Objective [102.4](#) and related policies.) [F.S. § 163.3177(6)d.2.e.,j.]

GOAL 205

The health and integrity of Monroe County's native upland vegetation shall be protected and, where possible, enhanced. [F.S. § 163.3177(6)d.2.d.,h.]

Objective 205.4

Monroe County, together with private, state, and federal agencies, shall maintain a program for acquiring and maintaining native upland habitat to implement Goal [105](#) and the recommendations in the FKCCS. (See Future Land Use Objective [102.4](#) and related policies). [F.S. § 163.3177(6)d.2.d.,e.]

Policy 205.4.3

Monroe County shall continue to restore and maintain native upland vegetation systems on County-

owned lands. [F.S. § 163.3177(6)d.2.d.,e.]

GOAL 206

Monroe County shall protect and conserve existing wildlife and wildlife habitats. [F.S. § 163.3177(6)d.2.e.]

Objective 206.3

Monroe County shall protect native wildlife species, especially state- and federally-designated species, from disturbance and predation by free-roaming domestic pets, particularly cats and dogs.

Policy 206.3.1

Big Pine and No Name Keys shall be areas where the County shall strive to control free-roaming cats and dogs.

Policy 206.3.2

The control of free-roaming cats and dogs shall be of continuing interest for the following at risk listed species: Key Largo Cotton Mouse, Key Largo Woodrat, Lower Keys Marsh Rabbit, and the Silver Rice Rat.

Objective 206.4

Monroe County shall protect its native wildlife populations from invasive exotic wildlife species.

Policy 206.4.1

To limit negative impacts to native fish and wildlife, Monroe County shall support Federal, State and non-governmental programs designed to avoid the introduction and establishment of, and to encourage the removal of, exotic invasive species; including but not limited to, supporting lionfish derbies.

GOAL 207

Monroe County shall protect, conserve, and appropriately use its soil and mineral resources. [F.S. § 163.3177(6)d.2.d.]

Objective 209.1

As funding is available, Monroe County shall continue to restore and maintain marine, wetland, beach/berm and native upland systems on Monroe County owned or managed conservation lands. [F.S. § 163.3177(6)d.2.e.,j.; F.S. § 163.3178(2)(e)]

Policy 209.1.2

Priority wetland restoration sites shall be those disturbed wetlands having the greatest functional value as determined through quantitative wetland assessment. [F.S. § 163.3177(6)d.2.d., e.; F.S. § 163.3178(2)(e), (f)]

Policy 209.1.3

Priority upland restoration sites shall be identified on the basis of findings of the general evaluation of upland vegetation (See Objective 205.1 and related policies). Priority sites shall be those disturbed areas whose restoration will result in the greatest habitat benefit at the least cost. [F.S. § 163.3177(6)d.2.d.]

Policy 209.1.4

Monroe County shall continue the program to remove invasive exotic vegetation from County-owned

or managed conservation lands. The County shall also continue to actively participate in the Florida Keys Invasive Exotics Task Force.

Policy 209.1.6

Restoration priorities shall be developed by Monroe County in consultation with agencies of the federal and state government owning lands in the Florida Keys, and with appropriate federal and state regulatory agencies.

Policy 209.1.7

Restoration projects shall be completed as funding becomes available. Local, state and federal funding sources shall be used to support restoration projects.

Policy 209.1.8

Monroe County shall continue to utilize the Monroe County Environmental Land Management and Restoration Fund for the management of County-owned and County-managed conservation lands. The Fund may only be used for restoration and management activities of public resource protection and conservation lands.

Policy 209.1.9

Monroe County shall support the efforts of state and federal agencies and private groups that buy land for conservation purposes to remove invasive exotic vegetation from acquisition sites.

GOAL 104

Monroe County shall recognize, designate, protect, and preserve its historic resources.

Thank you for the opportunity to comment on the proposed land management plan. If you have any questions please do not hesitate contacting us at (305)289-2500.

Sincerely,



Emily Schemper, AICP, CFM

Senior Director, Planning and Environmental Resources

cc: Beth Bergh, Monroe County Land Steward

APPENDIX E

*Information related to public hearing and Advisory Committee
State Lands Lease No. 4549*

MONROE COUNTY LAND MANAGEMENT PLAN ADVISORY COMMITTEE MEETING
APRIL 25, 2019 – 3 pm
Monroe County BOCC Room – 2798 Overseas Highway, Marathon, Florida

MEMBERS:

- Charles Pattison
Ex Director of Monroe County Land Authority
- Commissioner Michelle Coldiron
Monroe County Board of County Commissioners
- Mark Rosch
Sr Property Acquisition Specialist, Monroe County Land Authority
- Dan Clark / Andrew Townsend
USFWS - Florida Keys National Wildlife Refuges
- Kevin Kalasz
USFWS – Coastal Program Coordinator – So Florida & Everglades
- Jeannette Parker
FWC – Wildlife Environmental Areas Manager
- Kevin MacEwen
Florida Forest Service - Everglades District Manager
- Chris Bergh
The Nature Conservancy – South Florida Program Manager
- Trudy Ferraro
Florida Park Service – Biologist – Key Largo State Parks
- Mitch Cook
Citizen, Attorney, Neighbor of County conservation lands
- Cynthia Guerra
Sr Biologist, Monroe County Environmental Resources

MONROE COUNTY LAND MANAGEMENT PLAN ADVISORY COMMITTEE MEETING

APRIL 25, 2019 – 3 pm

Monroe County BOCC Room – 2798 Overseas Highway, Marathon, Florida

MEETING SUMMARY

ADVISORY COMMITTEE PORTION OF THE MEETING

In attendance: Beth Bergh (Monroe County); Charles Pattison (Monroe Co Land Authority); Mark Rosch (Monroe Co Land Authority); Michelle Coldiron (Monroe Co Commission); Cynthia Guerra (Monroe County); Kevin MacEwan (Florida Forest Service); Trudy Ferraro (Florida Park Service); Jeannette Parker (FFWCC); Chris Bergh (TNC); Mitch Cook (citizen); Kevin Kalasz (USFWS); Andrew Townsend (USFWS); and 2 members of the public.

The meeting began at 3:00 pm with introductions of the Advisory Committee members. Following the introductions, Beth Bergh, Monroe County Land Steward, provided background information regarding Monroe County conservation lands, the State's land acquisition program in the Keys, and the current requirements for the review of the proposed land management plan. Once the background information was addressed, the group considered the proposed goals and objectives included in the proposed land management plan. The following is a summary of the discussion item by item:

- Goal 1 – Remove invasive exotic vegetation

Chris Bergh commented that the County is doing a good job of managing the invasives on County lands. Mark Rosch asked Beth for information regarding the progress of the invasive exotic plant removal work on County lands in general. Trudy Ferraro suggested adding information to the plan related to percent cover of exotics. She also suggested including a specific number of acres (or percentage of properties) per year of exotic removal work within the "measure" of exotic removal work. Additionally, Trudy suggested adding a statement in Section II "Natural and Cultural Resources" regarding the current condition or health of the vegetative habitats listed. As a side note, Kevin Kalasz suggested adding Bartram's hairstreak to the list of butterflies on page 10. Cynthia Guerra suggested adding an objective related to monitoring for EDRR (Early Detection Rapid Response) species.

- Goal 2 – Control non-native or feral animals

Beth Bergh suggested adding an objective related to the Python Patrol Network. The group discussed cat feeding stations, feral animals, and iguanas. Trudy Ferraro mentioned adding a specific measurement (percentage) for the removal of non-native or feral animals (Objective 2). If a measure is added, Chris Bergh felt it should be limited to EDRR species given the scattered locations of the properties being managed.

- Goal 3 – Remove existing solid waste

Trudy Ferraro suggested clarifying goals and adding a specific number of cleanups per year as a measure under Objective 3

MONROE COUNTY LAND MANAGEMENT PLAN ADVISORY COMMITTEE MEETING

APRIL 25, 2019 – 3 pm

Monroe County BOCC Room – 2798 Overseas Highway, Marathon, Florida

- Goal 4 – Prevent future dumping

Under Objective 4 – Utilize fencing if required and deemed appropriate for the site (except Big Pine Key), Chris Bergh and Cynthia Guerra suggested adding No Name Key to the exception and to include an explanation as to why fences are not appropriate on those islands.

- Goal 5 – Address encroachments from neighboring property owners

No comments from the group.

- Goal 6 – Restore degraded habitat

Beth Bergh said Objective 4 needs to be re-numbered. Chris Bergh suggested the language in the goal be changed to “Restore or enhance degraded habitat”, and perhaps include language regarding the use of adaptive management techniques within the context of sea level rise / climate change. Trudy Ferraro suggested changing the timeframe under Objective 1 from 6 months to 2 years. She also suggested creating a priority listing of parcels needing restoration. Andrew Townsend suggested adding monitoring of native vegetation under Objective 3 “Monitor sites after completion of restoration work for the presence of invasive exotic plant species” in order to monitor the success of the restoration project.

- Goal 7 - Coordinate acquisition and management of conservation lands with other appropriate agencies

Trudy Ferraro suggested adding State Parks to Objective 2. Kevin Kalasz suggested making Objective 3 “Coordinate with the USFWS National Key Deer Refuge and the Division of Forestry regarding the fire hazard reduction / fire management of pine rockland habitat” a goal rather than an objective. Trudy Ferraro suggested the goal could read “minimize wildfire risk” with objectives under the goal that may include installing fire breaks; reducing fire fuels, maintenance of fire breaks, and increasing opportunities for fire response. Chris Bergh pointed out the need for fuel maintenance; to continue managing fuel loads.

- Goal 8 – Promote education and outreach

Cynthia Guerra suggested considering including an “adopt-a-lot” type of program. Chris Bergh suggested including an objective related to educating the public about wildfire hazard reduction.

- Goal 9 – Maintenance or enhancement of imperiled species’ habitat

Trudy Ferraro suggested including an objective to map imperiled species habitat. The group suggested that Objective 3 “install osprey nesting platforms” be removed as they considered this unnecessary.

MONROE COUNTY LAND MANAGEMENT PLAN ADVISORY COMMITTEE MEETING

APRIL 25, 2019 – 3 pm

Monroe County BOCC Room – 2798 Overseas Highway, Marathon, Florida

- Goal 10 – Preserve and protect archeological and historical resources

Jeannette Parker and Trudy Ferraro suggested adding an objective to have at least one staff person attend ARM (Archeological Resource Management) training. Trudy Ferraro suggested adding an objective related to surveying newly acquired properties for potential archeological or historical sites. Cynthia Guerra asked about geocaching activities on County conservation lands. Beth Bergh said she was not aware of geocaching activities on the subject properties.

- Goal 11 – Preserve and restore hydrologic resources

Chris Bergh suggested including language to describe creating habitat, but not necessarily back to what it was (i.e. adaptive management).

The Advisory Committee's review of the management plan concluded at approximately 4:15 pm.

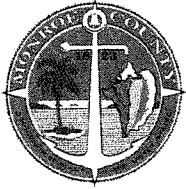
PUBLIC HEARING PORTION OF THE MEETING

There were two members of the public in attendance that planned to speak at the 5 pm public meeting so they were invited to speak to the Advisory Committee at this point. The first of the two speakers, Dr. Janice Lindsay-Hartz, gave a slide presentation related to Pelican Key, a mangrove island in the Upper Keys included in the County's state lands lease and subject to the proposed management plan. Dr. Lindsay-Hartz has lived in the area for many years and has noted many species of birds utilizing Pelican Key for roosting and nesting. She expressed concern regarding activities surrounding the island that are disturbing the birds on Pelican Key. Specifically, she is concerned about seaplanes landing and taking off within the nearby waters, helicopter tours, fireworks displays set off from barges, and jet skis and party boats, all of which are disturbing the birds. She is also concerned about derelict vessels tying up to the mangroves on the island. She suggested adding a goal to the proposed land management plan of protecting Pelican Key and its habitat, including the soundscape.

The second speaker was Dottie Moses, representing the Federation of Key Largo Homeowners' Associations. She had questions related to who is responsible for the management of the road right-of-way (FDOT and County ROW) and dumping of landscape debris. She also suggested asking Everglades National Park if they would be interested in managing Pelican Key since they have a facility nearby on Key Largo.

No additional members of the public came to the meeting other than the two speakers listed above. The meeting ended at 5:30 pm.

Summary prepared by Beth Bergh, Monroe County Land Steward



REVISED AGENDA

MONROE COUNTY BOARD OF COUNTY COMMISSIONERS

Any person who wishes to be heard shall provide the Clerk with his or her name and residence and the agenda item on which he or she wishes to be heard. Such information shall be on a card provided by the County. Once public input begins, there will be no further speaker cards allowed to be submitted to the Clerk for that subject. An individual has three minutes and a person representing an organization has five minutes to address the Board (except that individuals wishing to speak during public hearings pertaining to land use issues will have five minutes). The first person representing the organization will be allowed the five minutes. Subsequently, all other speakers on behalf of that organization have three minutes to address the Board. Once an individual has addressed the Board, he or she will not be permitted to return to the podium for follow-up comments, unless the issue involved is quasi-judicial in nature. In that case, the applicant may return to the podium to conclude his or her position at the end of the public hearing.

ADA ASSISTANCE: If you are a person with a disability who needs special accommodations in order to participate in this proceeding, please contact the County Administrator's Office, by phoning (305) 292-4441, between the hours of 8:30 a.m. - 5:00 p.m., no later than five (5) calendar days prior to the scheduled meeting; if you are hearing or voice impaired, call "711". Live Closed Captioning is available via our web portal @ <http://monroecountyfl.iqm2.com> for meetings of the Monroe County Board of County Commissioners.

Please note that all time approximate items are listed in bold.

Wednesday, April 17, 2019

**Marathon Government Center
2798 Overseas Highway
Marathon, FL**

9:00 A.M.	Regular Meeting
9:15 A.M.	Land Authority Governing Board
9:30 A.M.	Fire & Ambulance District 1 Board of Governors
10:15-10:30 A.M.	Scheduled Break
12:00 P.M.	Lunch
1:30 P.M.	Closed Sessions
2:30-2:45 P.M.	Scheduled Break
3:00 P.M.	Public Hearings

TIME APPROXIMATE

REGULAR MEETING

9:00 A.M. **Call to Order**
 Salute to Flag

A. ADDITIONS, CORRECTIONS AND DELETIONS

1. Approval of agenda.

9:30 A.M. H. **FIRE & AMBULANCE DISTRICT 1 BOARD OF GOVERNORS**
No items submitted.

ADJOURNMENT

**I. PLANNING AND ENVIRONMENTAL RESOURCES, BUILDING
AND CODE COMPLIANCE DEPARTMENTS**

1. Approval of Amendments No. 3 & 4 to Lease No. 4549 between Monroe County and the State of Florida for the management of certain State-owned conservation lands.
2. Approval of a Resolution of the Monroe County Board of County Commissioners Waiving Approximately \$6,062.80 in Building Permit Fees for One Deed-Restricted Housing Unit Serving the 100% of Median Income Level Category, to be Constructed on a Parcel Located at 24 Hibiscus Lane on Key Largo, at Approximate Mile Marker 101, Having Real Estate Number 00507870-000000.
3. Announcement of a Public Advisory Group Hearing to be held at 5:00 P.M. on Thursday, April 25, 2019, at the Marathon Government Center, 2798 Overseas Highway, Marathon, Florida, pursuant to Section 259.032(8)(b), Florida Statutes, with regard to the Monroe County Conservation Lands Proposed 10 Year Land Management Plan for State-Owned Conservation Parcels Managed by Monroe County Under State Lease No. 4549.

REVISED

4. Approval of the 1st amendment of the Interlocal Agreement (ILA) between Monroe County and City of Marathon transferring 55 low income Affordable Housing ROGO Allocations from Monroe County to the City of Marathon, extending the deadline for Certificates of Occupancy for the Key Vaca, LLC, Low Income Housing Tax Credit (LIHTC) project to December 31, 2021. ~~This is not a low income housing tax credit (LIHTC) project.~~
5. Approval of the 1st amendment to the revised Interlocal Agreement (ILA) between Monroe County and City of Marathon transferring 23 low income, 3 very low income, and 20 moderate income (46 total) Affordable Housing ROGO Allocations from Monroe County to the City of Marathon, extending the deadline for Certificates of Occupancy for the Crystal Cove Low Income Housing Tax Credit (LIHTC) project, to December 31, 2021.



Marathon•Sunshine Key•Big Pine Key•No Name Key•Little, Middle & Big Torch Key•Ramrod Key•Summerland Key•Cudjoe Key•Sugarloaf Key

News-Barometer

30330 Overseas Highway

P.O. Box 431639

Big Pine Key, FL 33043

Phone: 305-872-0106 Fax: 305-515-2939

AFFIDAVIT OF PUBLICATION

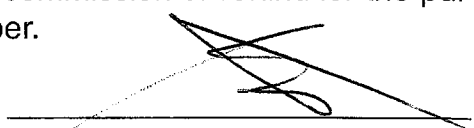
STATE OF FLORIDA
COUNTY OF MONROE

Before the undersigned authority personally appeared Steve Estes, who on oath says that he is the Publisher for the News-Barometer, a weekly newspaper published each Friday in Big Pine Key, Monroe County, Florida; that the attached copy of advertisement, being a legal notice in the matter of:

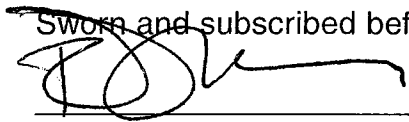
LEGAL NOTICE: PUBLIC HEARING LAND MANAGEMENT PLAN: MONROE COUNTY LAND STEWARD, 2798 OVERSES HIGHWAY, SUITE 400, MARATHON, FL 33050

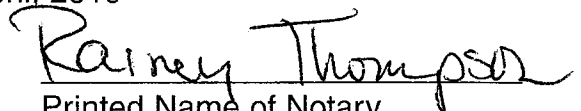
was published in said newspaper in the issue(s) of:
March 22, 2019

Affiant further says that the News-Barometer is a weekly newspaper published in Big Pine Key, in said Monroe County, Florida and that said newspaper has heretofore been continuously published in said Monroe County, Florida each week and has been entered as first-class mail matter at the post office in Big Pine Key, in said Monroe County, Florida, for a period of 1 year next preceeding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in said newspaper.


Signature of Affiant

Sworn and subscribed before me this 5th day of April, 2019

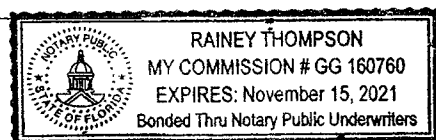

Signature of Notary


Printed Name of Notary

Expires November 15, 2021

Personally Known ✓ Produced Identification _____

Type of Identification Produced _____





Published Weekly
Marathon, Monroe County, Florida

PROOF OF PUBLICATION

STATE OF FLORIDA COUNTY OF MONROE

Before the undersigned authority personally appeared **JASON KOLER** who on oath, says that he is **PUBLISHER** of the **WEEKLY NEWSPAPERS**, a weekly newspaper published in Marathon, in Monroe County, Florida: that the attached copy of advertisement was published in said newspaper in the issues of: (date(s) of publication)

March 21, 2019

Affiant further says that the said **WEEKLY NEWSPAPERS** is a newspaper published at Marathon, in said Monroe County, Florida, and that the said newspaper has heretofore been continuously published in said Monroe County, Florida, once each week (on Thursday) and has been qualified as a second class mail matter at the post office in Marathon, in Monroe County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement. The affiant further says that he has neither paid nor promised any person, firm, or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper(s) and that The Weekly Newspapers is in full compliance with Chapter 50 of the Florida State Statutes on Legal and Official Advertisements.

Sworn to and subscribed before me
this 21 day of March, 2019.

(SEAL)

Charlotte Hruska

Notary

