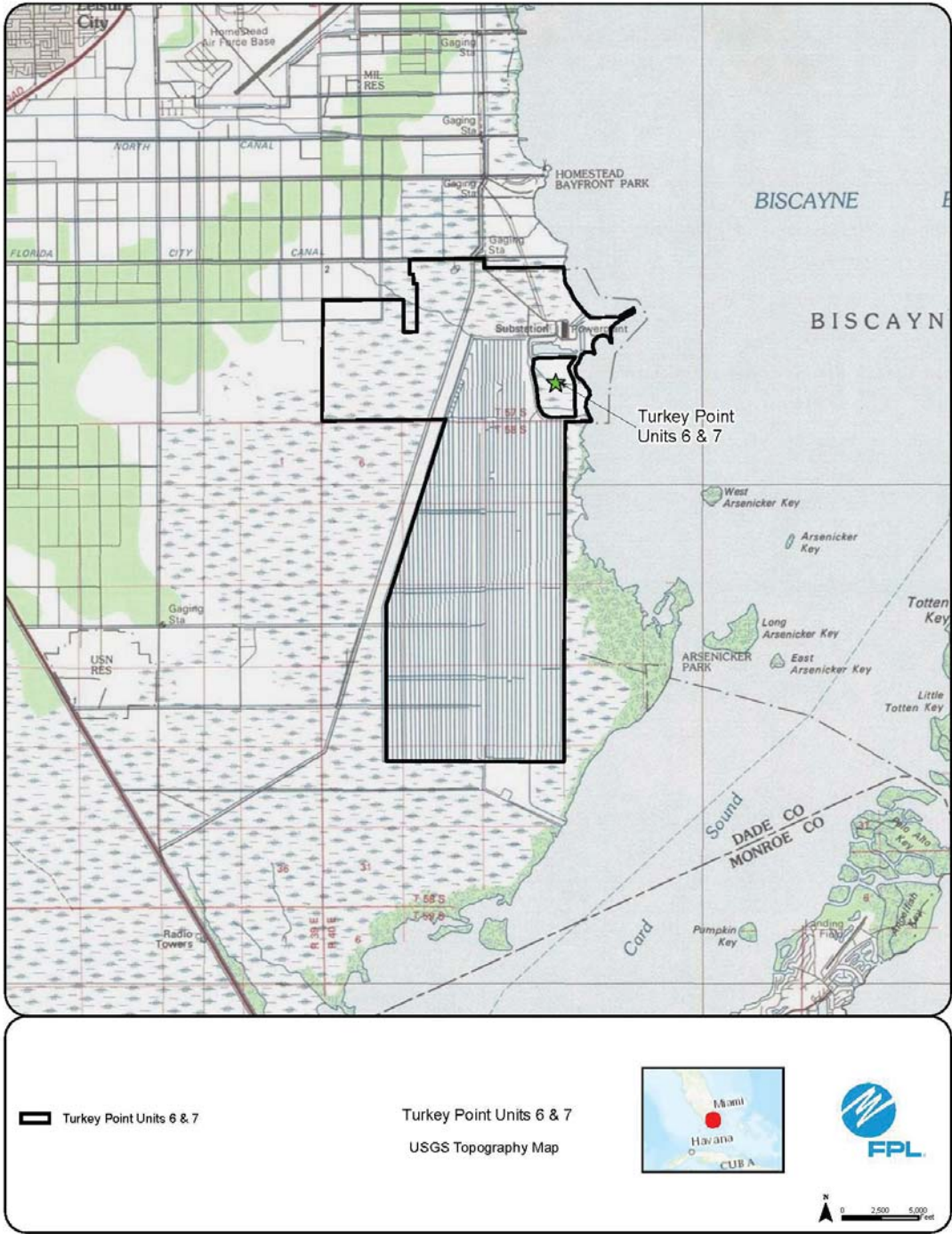


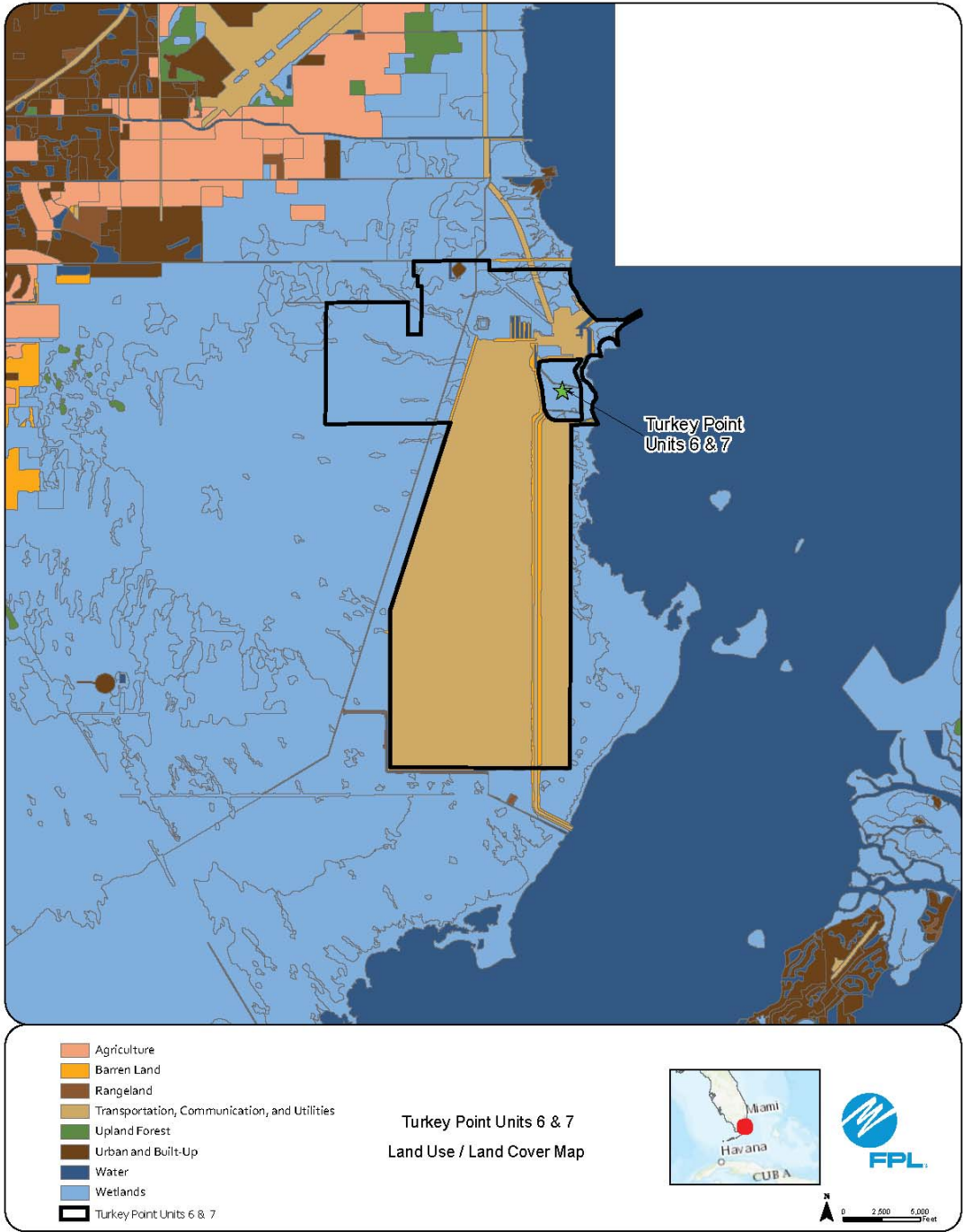


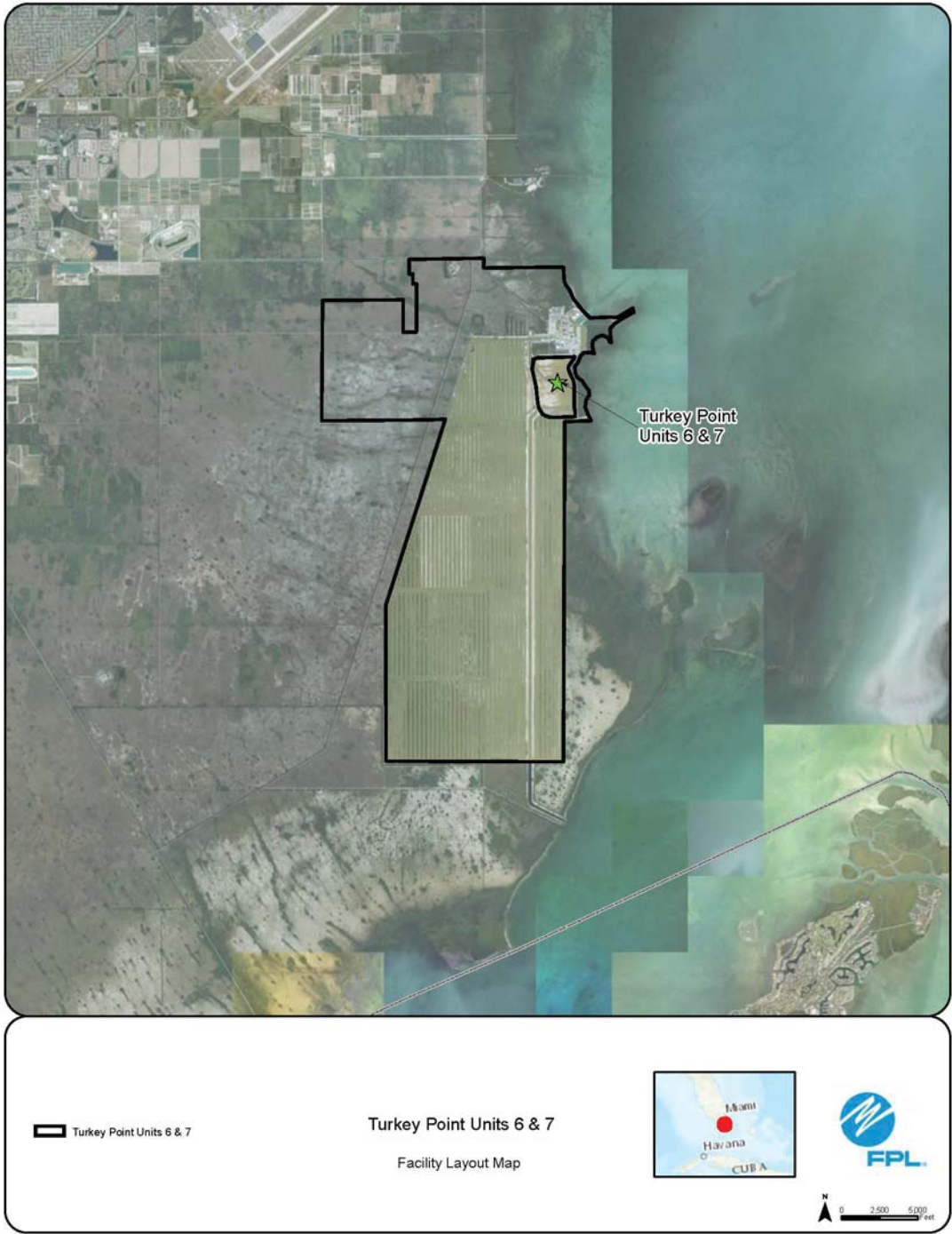
***Site Description, Environmental, and Land Use Information:
Supplemental Information***

***Preferred Site #37: Turkey Point Units 6 & 7,
Miami-Dade County***

Preferred Site		Turkey Point Units 6&7
County		Miami-Dade
Facility Acreage		N/A
COD		TBD
For PV facilities: tracking or fixed		N/A
Reference Maps		
a. USGS Map	See Figures in the following pages	
b. Proposed Facilities Layout		
c. Map of Site and Adjacent Areas		
d. Land Use Map of site and Adjacent Areas		
e.	Existing Land Uses	
Site	Electrical generating facilities	
Adjacent Areas	Undeveloped, the Everglades Mitigation Bank, South Florida Water Management District Canal L-31E, Biscayne Bay and state-owned land on Card Sound	
f.	General Environment Features On and In the Site Vicinity	
1. Natural Environment	The site includes hypersaline mud flats, man-made cooling canals and remnant canals, previously filled areas/roadways, mangrove heads associated with historical tidal channels, dwarf mangroves, open water/discharge canal associated with the cooling canals on the western portion of the site, spoil berms associated with remnant canals, and upland spoil areas.	
2. Listed Species	Listed species known to occur include the peregrine falcon, wood stork, American crocodile, roseate spoonbill, little blue heron, snowy egret, American oystercatcher, least tern, white ibis, Florida manatee, eastern indigo snake, snail kite, and white-crowned pigeon. Some listed flora species likely to occur include pine pink, Florida brickell-bush, Florida lantana, mullein nightshade, and Lamarck's trema. The construction and operation of Turkey Point Units 6 & 7 are not expected to adversely affect listed species.	
3. Natural Resources of Regional Significance Status	Significant features in the vicinity of the site include Biscayne Bay, Biscayne National Park, Biscayne Bay Aquatic Preserve, Miami-Dade County Homestead Bayfront Park, and Everglades National Park.	
4. Other Significant Features	FPL is not aware of any other significant features of the site.	
g. Design Features and Mitigation Options	The technology proposed is the Westinghouse AP1000 pressurized water reactor. This design is certified by the Nuclear Regulatory Commission under 10 CFR 52. The Westinghouse AP1000 consists of the reactor, steam generators, pressurizer, and steam turbine/electric generator. The projected generating capacity from each unit is 1,100 MW. Condenser cooling will use six circulating water cooling towers. The structures to be constructed include the containment building, shield building, auxiliary building, turbine building, annex building, diesel generator building, and radwaste building. The plant area will also contain the Clear Sky substation (switchyard) that will connect to FPL's transmission system.	
h. Local Government Future Land Use Designations	Current future land use designations include Industrial, Utilities, Communications, and Unlimited Manufacturing with a dual designation of Mangrove Protection Area. There are also areas of the site designated Interim District.	
i. Site Selection Criteria Factors	Site selection included the following criteria: existing transmission and transportation infrastructure to support new generation, the size and seclusion of the site while being relatively close to the load center, economics, and the long-standing record of safe and secure operation of nuclear generation at the site since the early 1970s.	
j. Water Resources	Water requirements will be met by reclaimed water from Miami-Dade County and a back-up supply of saline groundwater from below the marine environment of Biscayne Bay.	
k. Geological Features of Site and Adjacent Areas	See Figure in the following pages. Site is located in the South Florida region.	
l. Project Water Quantities for Various Uses	Cooling: 55.3 million gallons per day (mgd) Process: 1.3 mgd Potable: .05 mgd Panel Cleaning: Not Applicable	
m. Water Supply Sources by Type	Cooling: Miami-Dade reclaimed water and saline groundwater from Biscayne Bay via radial collector wells Process: Miami-Dade Water and Sewer Department Potable: Miami-Dade Water and Sewer Department	
n. Water Conservation Strategies Under Consideration	Turkey Point Units 6 & 7 will use reclaimed water 24 hours per day, 365 days per year when operating and when the reclaimed water is available in sufficient quantity and quality.	
o. Water Discharges and Pollution Control	Blowdown water or discharge from the cooling towers, along with other waste streams, will be injected into the boulder zone of the Floridan Aquifer. Non-point source discharges are not an issue since there will be none at this facility. Storm water runoff will be released to the closed-loop cooling canal system.	
p. Fuel Delivery, Storage, Waste Disposal, and Pollution Control	The Turkey Point Units 6 & 7 reactors will contain enriched uranium fuel assemblies. Fuel assemblies will be transported to Turkey Point for use in Units 6 & 7 by truck from a fuel fabrication facility in accordance with U.S. Department of Transportation and NRC regulations. Spent fuel being discharged will remain in the permitted spent fuel pool while short half-life isotopes decay. After a sufficient decay period, the fuel would be transferred to an on-site independent spent fuel storage installation facility or a permitted off-site disposal facility. Packaging of the fuel for off-site shipment will comply with the applicable DOT and NRC regulations for transportation of radioactive material. The U.S. Department of Energy is responsible for spent fuel transportation from reactor sites to a repository under the Nuclear Waste Policy Act of 1982, as amended. FPL has executed a standard spent nuclear fuel disposal contract with DOE for fuel used in Units 6 & 7.	
q. Air Emissions and Control Systems	Fuel - The units will minimize FPL system air pollutant emissions by using nuclear fuel to generate electric power. Combustion Control / Combustor Design - Not Applicable Note: The diesel engines necessary to support Turkey Point Units 6 & 7 and fire pump engines will be purchased from manufacturers whose engines meet the EPA's New Source Performance Standards Subpart IIII emission limits.	
r. Noise Emissions and Control Systems	Predicted noise levels associated with these projects are not expected to result in adverse noise impacts in the vicinity of the site.	
s. Status of Applications	Need Determination Issued: April 2008 FL Site Certification Received: May 14, 2014 USACE Section 404 Permit: December 18, 2019 COL received: April 5, 2018 Miami-Dade County Unusual Use approvals: issued in 2007 and 2013 Land Use Consistency Determination: issued in 2013 Prevention of Significant Deterioration: issued in 2009	







Appendix C Potential Sites

Below are the descriptions regarding each of the 22 Potential Sites listed in Table IV.G.2 in Chapter IV. Following the descriptions are maps showing the topographical features, land use, and facility layout of each site.

FPL Area Potential Site #1: Hawthorne Creek Solar Energy Center

This potential site in DeSoto County is under evaluation for future PV.

a. U.S. Geological Survey (USGS) Map

See Figures on subsequent pages.

b. Existing Land Uses of Site and Adjacent Areas

Site is characterized as active citrus groves. Surrounding area is primarily used for agricultural purposes including cropland, pasture, and citrus groves and undeveloped land formerly used for agricultural purpose in addition to several residential properties.

c. Environmental Features

Site consists mainly of active citrus groves with irrigation ditches and mixed wetland areas occurring throughout the property. No adverse impacts to listed species are anticipated.

d. Water Quantities Required

Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Minimal for PV.

Panel Cleaning: Minimal for PV and only needed in the absence of sufficient rainfall.

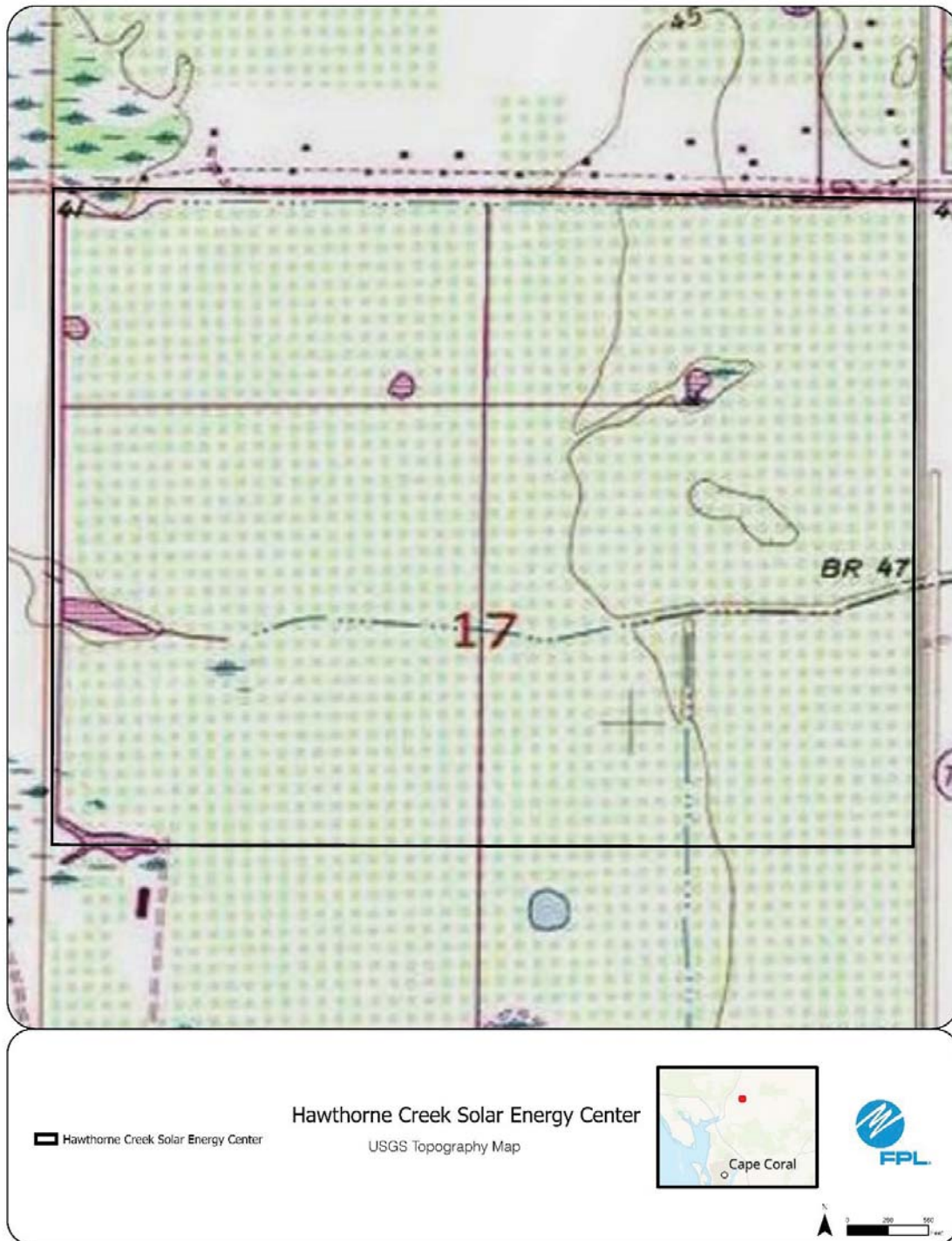
e. Supply Sources

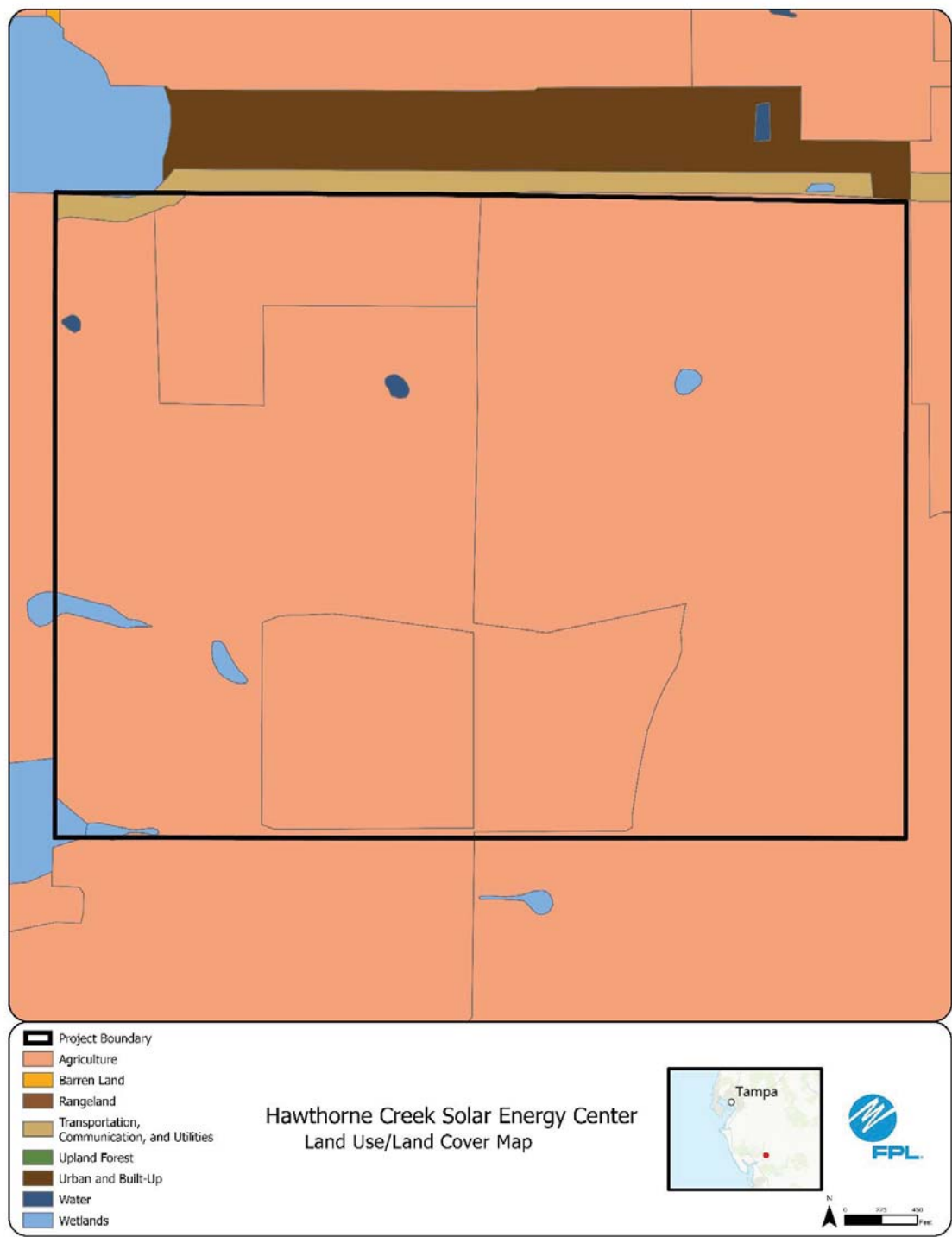
Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Not Applicable for PV.

Panel Cleaning: Trucked in if and when needed for PV.







 Hawthorne Creek Solar Energy Center

Hawthorne Creek Solar Energy Center
Facility Layout Map



FPL Area Potential Site #2: Nature Trail Solar Energy Center

This potential site in Baker County is under evaluation for future PV.

a. U.S. Geological Survey (USGS) Map

See Figures on subsequent pages.

b. Existing Land Uses of Site and Adjacent Areas

Site is an active pine tree farm. The majority of the surrounding properties are also timberland with the exception of a few residential properties located to the northwest of the Site.

c. Environmental Features

Site is currently a pine tree farm with forestry operations and wood processing with a portable sawmill on-site. The northern portion of the Site is also used as a hunting camp. Most of the on-site wetlands consist of sloughs associated with the St. Mary's River on the southern and eastern portions of the Site. No adverse impacts to listed species are anticipated.

d. Water Quantities Required

Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Minimal for PV.

Panel Cleaning: Minimal for PV and only needed in the absence of sufficient rainfall.

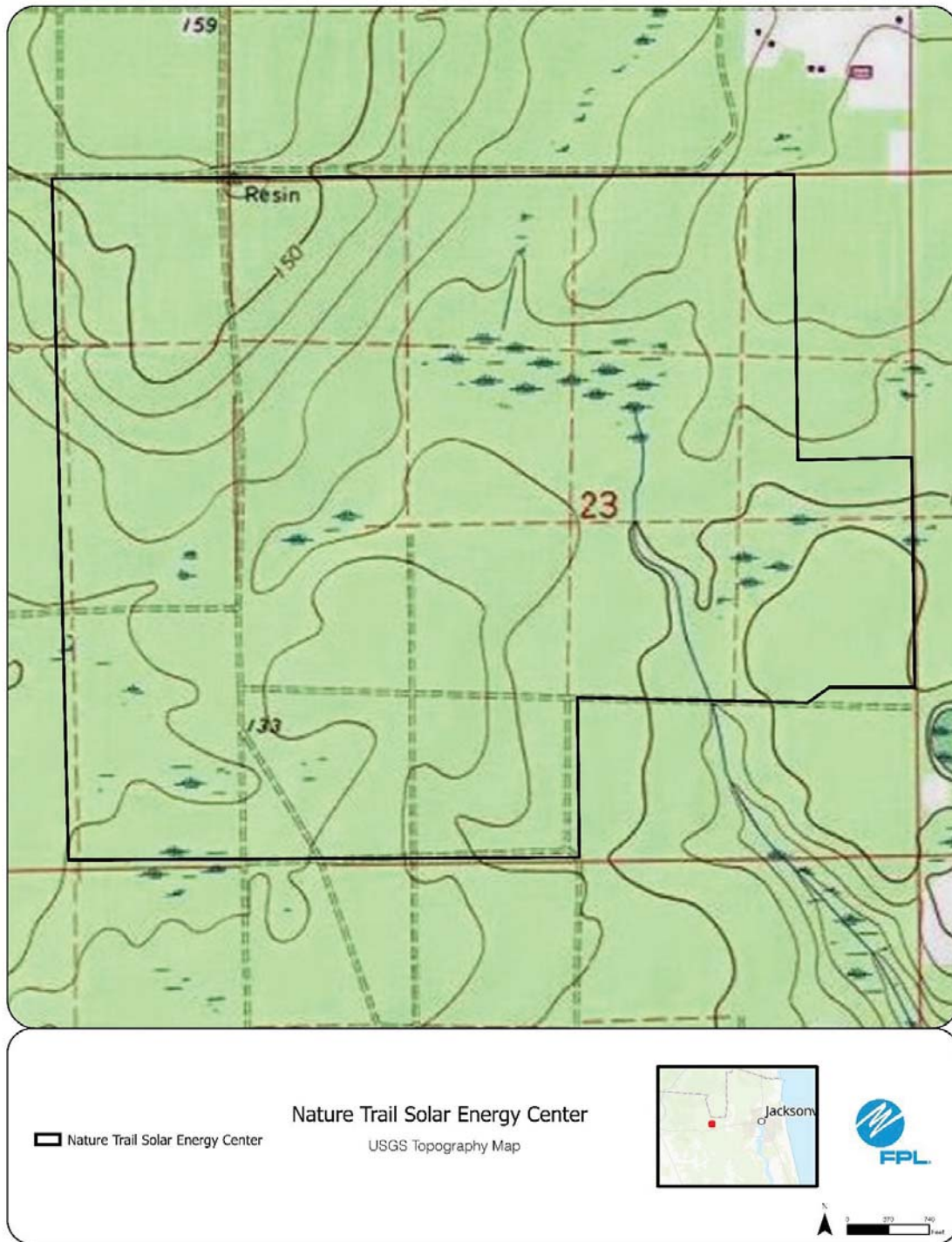
e. Supply Sources

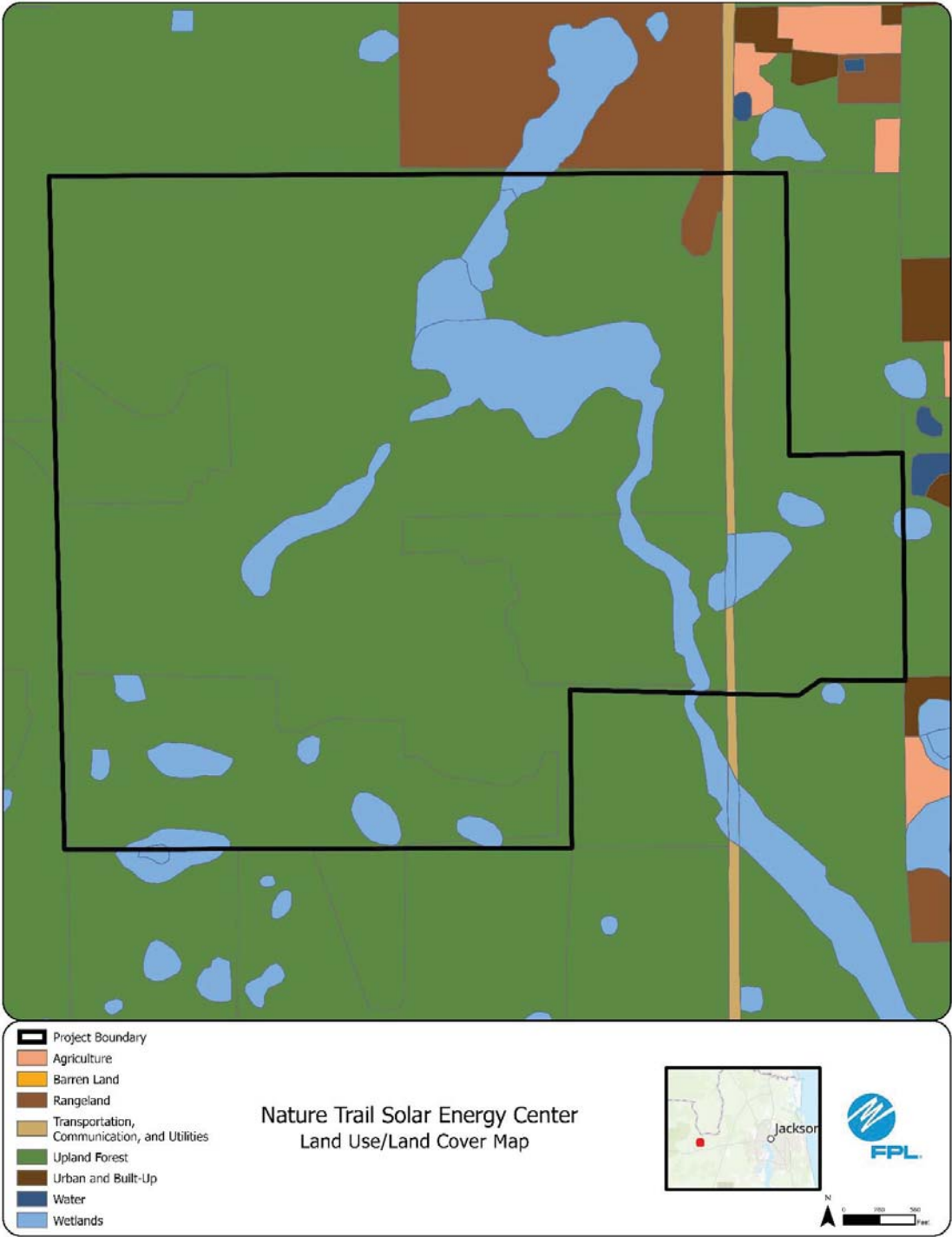
Cooling: Not Applicable for PV.

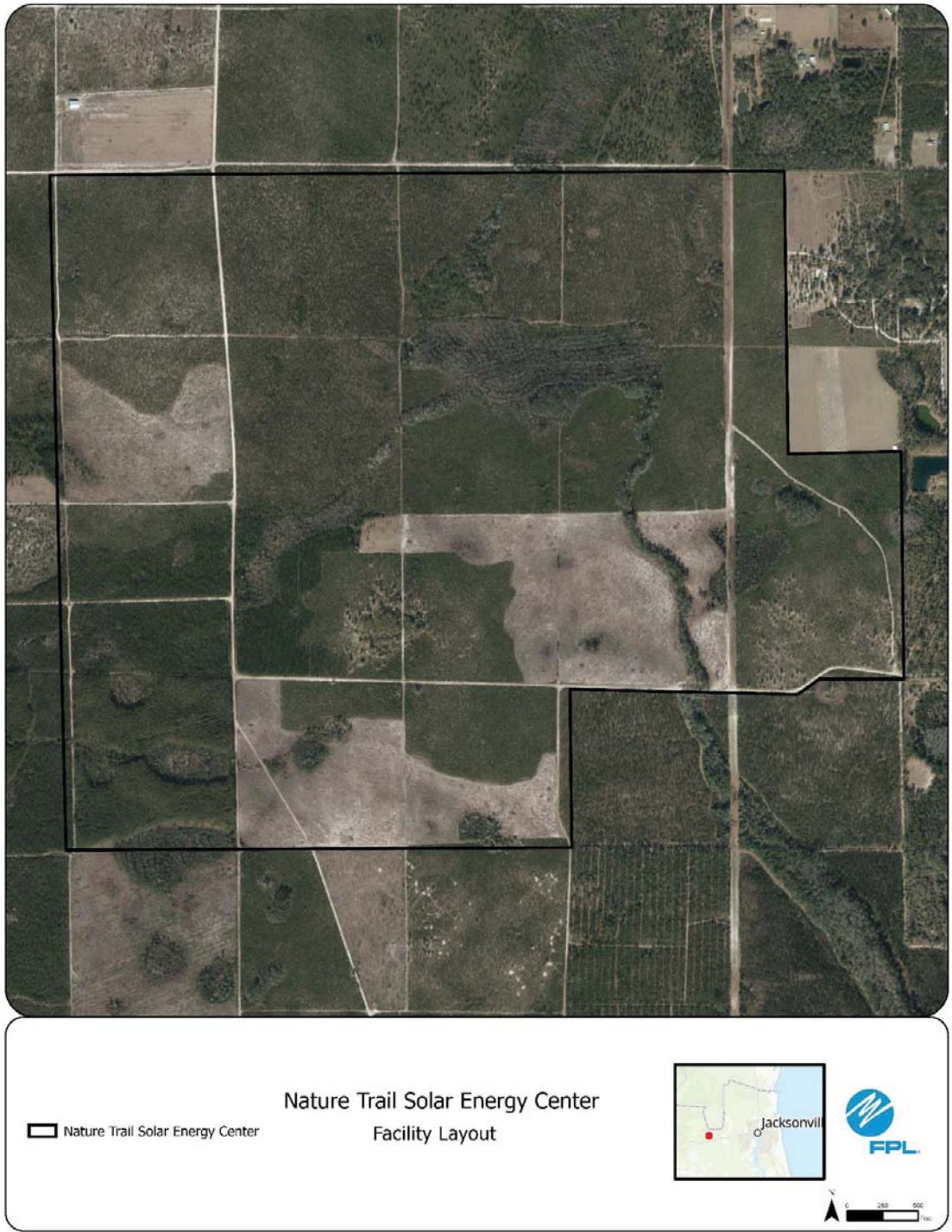
Process: Not Applicable for PV.

Potable: Not Applicable for PV.

Panel Cleaning: Trucked in if and when needed for PV.







FPL Area Potential Site #3: Fawn Solar Energy Center

This potential site in Martin County is under evaluation for future PV.

a. U.S. Geological Survey (USGS) Map

See Figures on subsequent pages.

b. Existing Land Uses of Site and Adjacent Areas

Site is active row crop farmland and unused agricultural land. Surrounding area is primarily used for agricultural purposes including cropland, pasture, and citrus groves and undeveloped land formerly used for agricultural purpose.

c. Environmental Features

The site includes active row cropland, agricultural ditches, and canals. No adverse impacts to listed species are anticipated.

d. Water Quantities Required

Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Minimal for PV.

Panel Cleaning: Minimal for PV and only needed in the absence of sufficient rainfall.

e. Supply Sources

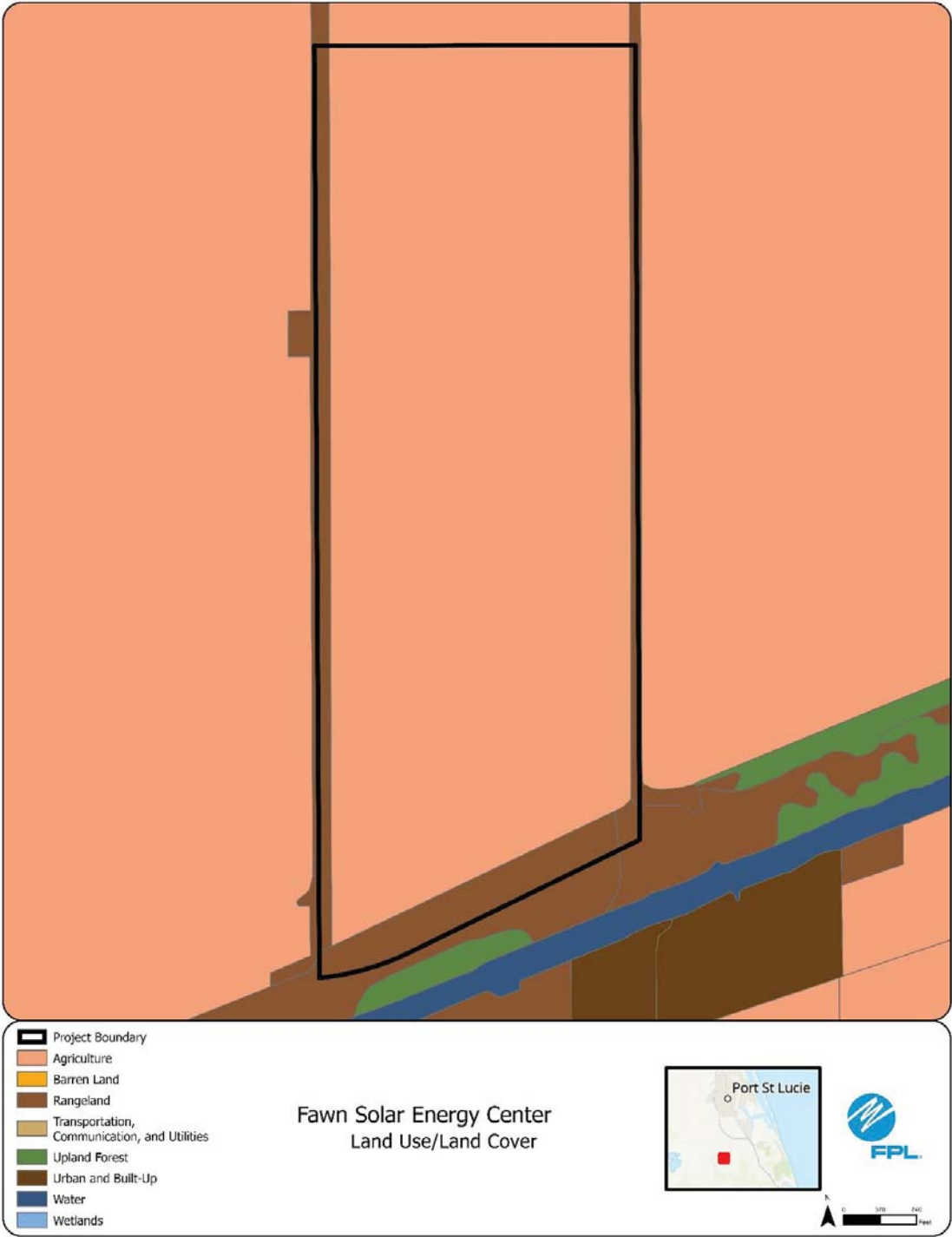
Cooling: Not Applicable for PV.

Process: Not Applicable for PV.


Potable: Not Applicable for PV.

Panel Cleaning: Trucked in if and when needed for PV.







 Fawn Solar Energy Center

Fawn Solar Energy Center
Facility Layout Map



FPL Area Potential Site #4: Holopaw Solar Energy Center

This potential site in Palm Beach County is under evaluation for future PV.

a. U.S. Geological Survey (USGS) Map

See Figures on subsequent pages.

b. Existing Land Uses of Site and Adjacent Areas

Site is characterized as improved pastureland for cattle. Surrounding area is categorized by agricultural lands to the north, west, and south, while the eastern boundary of the project site is separated from the J.W. Corbett Wildlife Management Area by the SFWMD L-8 Canal.

c. Environmental Features

The site includes an active sugar cane operation with associated irrigation ditches, improved pasture, an abandoned tree farm/grove, and jurisdictional wetlands. No adverse impacts to listed species are anticipated.

d. Water Quantities Required

Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Minimal for PV.

Panel Cleaning: Minimal for PV and only needed in the absence of sufficient rainfall.

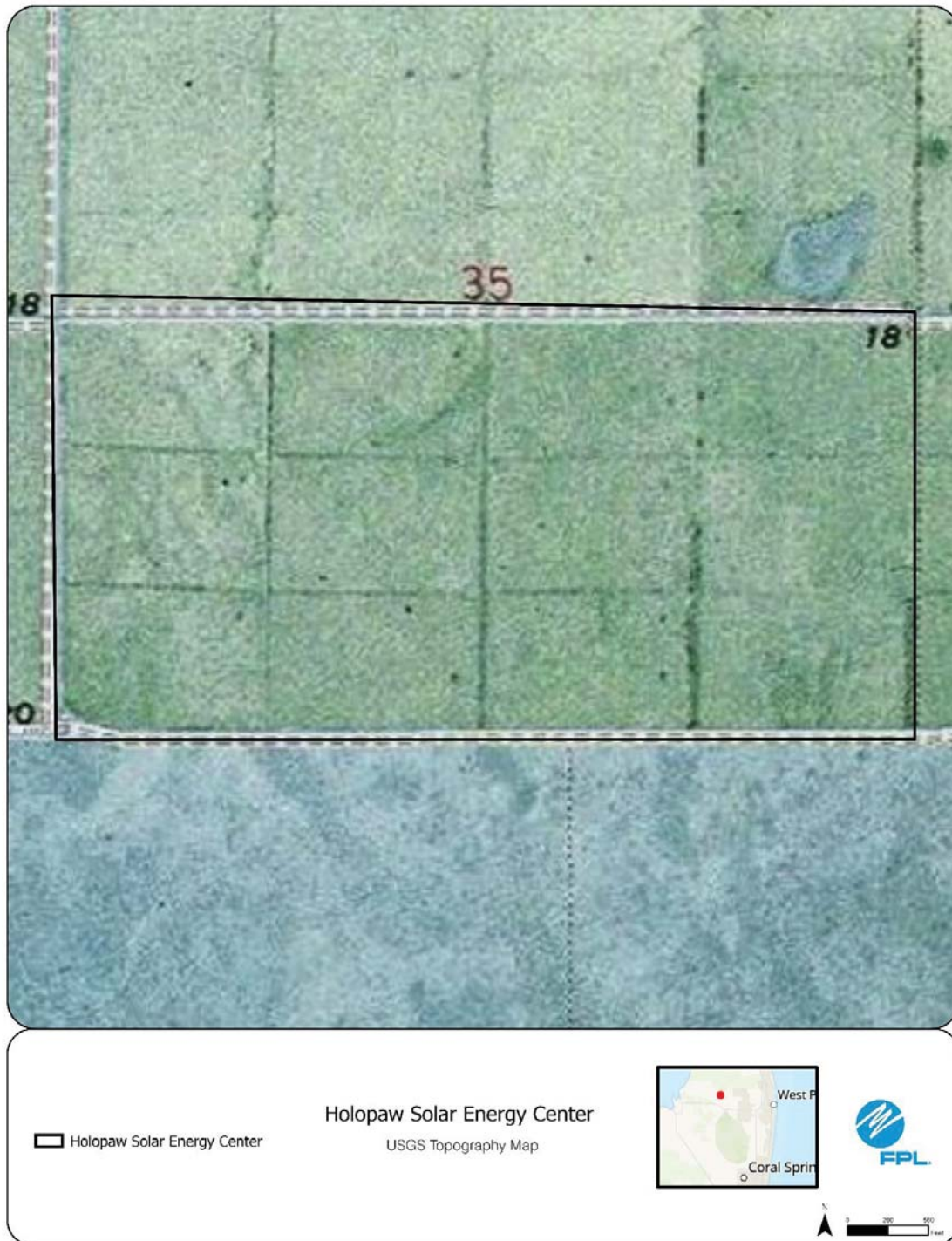
e. Supply Sources

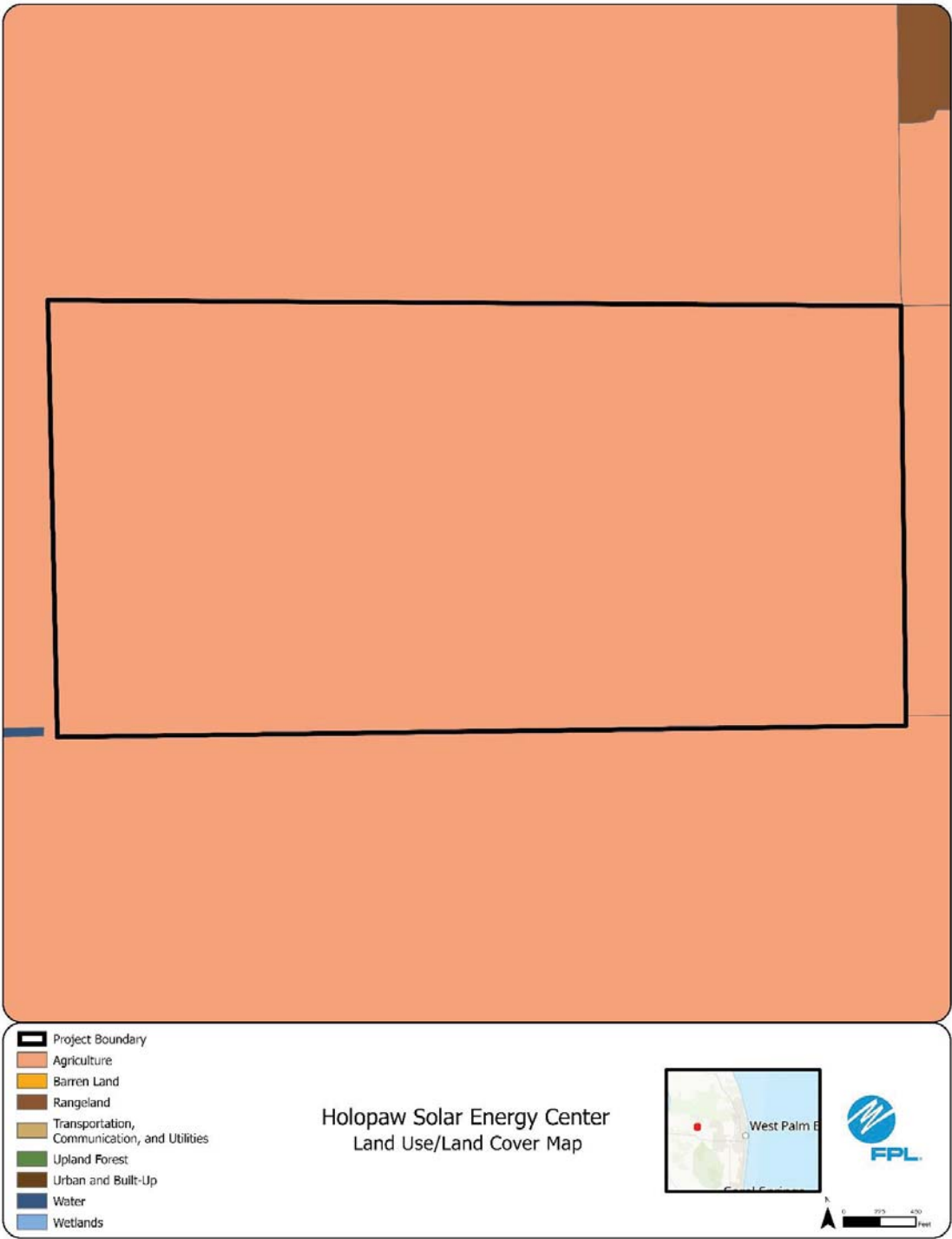
Cooling: Not Applicable for PV.

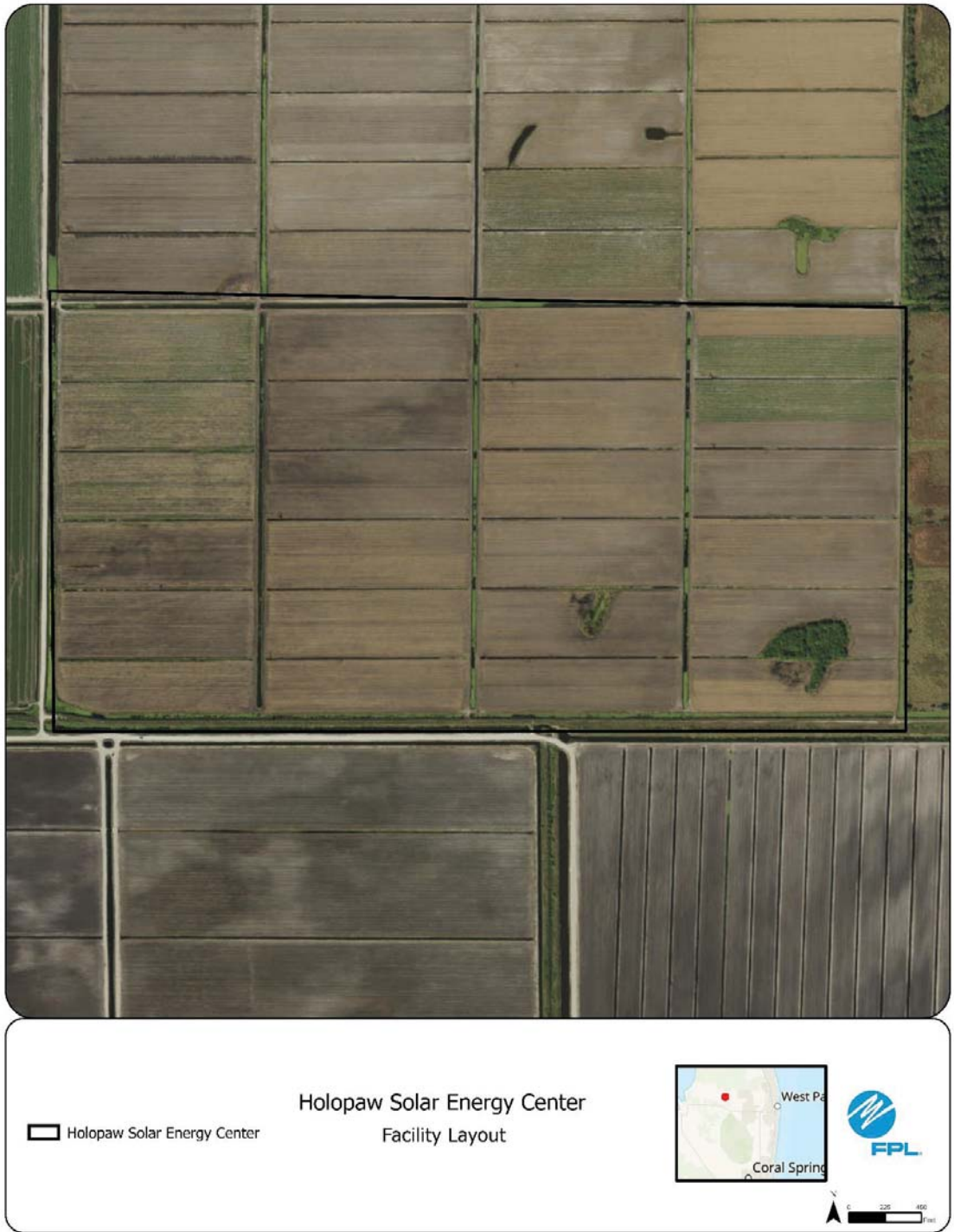
Process: Not Applicable for PV.

Potable: Not Applicable for PV.

Panel Cleaning: Trucked in if and when needed for PV.







FPL Area Potential Site #5: Crystal Mine Solar Energy Center

This potential site in Okeechobee County is under evaluation for future PV.

a. U.S. Geological Survey (USGS) Map

See Figures on subsequent pages.

b. Existing Land Uses of Site and Adjacent Areas

Site is active pastureland for cattle. Surrounding area is primarily used for agricultural purposes including cropland, pasture, and citrus groves.

c. Environmental Features

Site is mostly pastureland with few forested uplands and wetlands. No adverse impacts to listed species are anticipated.

d. Water Quantities Required

Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Minimal for PV.

Panel Cleaning: Minimal for PV and only needed in the absence of sufficient rainfall.

e. Supply Sources

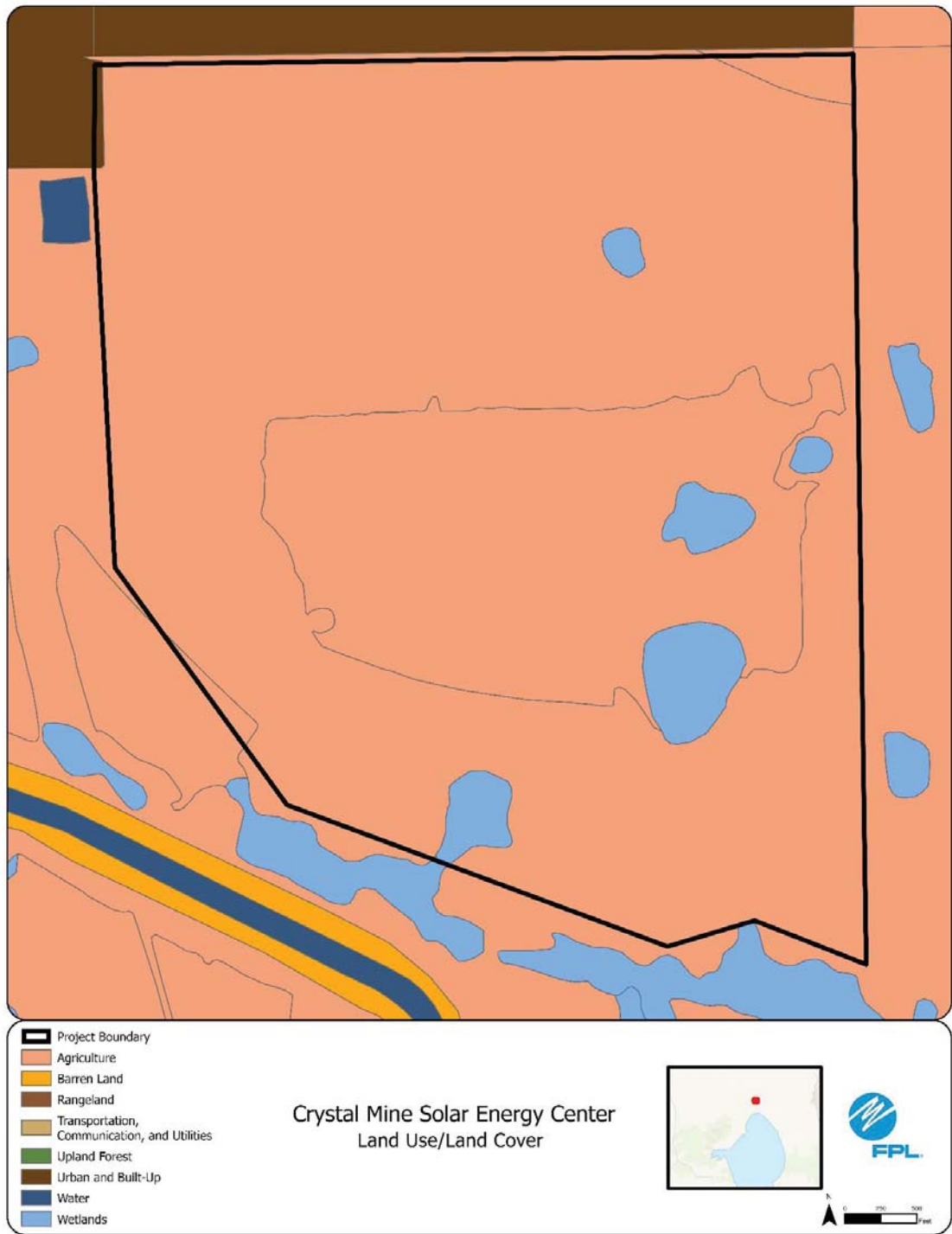
Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Not Applicable for PV.

Panel Cleaning: Trucked in if and when needed for PV.







FPL Area Potential Site #6: Buttonwood Solar Energy Center

This potential site in St. Lucie County is under evaluation for future PV.

a. U.S. Geological Survey (USGS) Map

See Figures on subsequent pages.

b. Existing Land Uses of Site and Adjacent Areas

Site is mostly active citrus groves. Surrounding area is primarily used as pasture/grazing land and citrus groves.

c. Environmental Features

Site consists mainly of active citrus groves, with a large surface water in the northern portion of the property, few sparsely located hardwood forest areas along the eastern side of the property, and irrigation ditches occurring throughout the property. No adverse impacts to listed species are anticipated.

d. Water Quantities Required

Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Minimal for PV.

Panel Cleaning: Minimal for PV and only needed in the absence of sufficient rainfall.

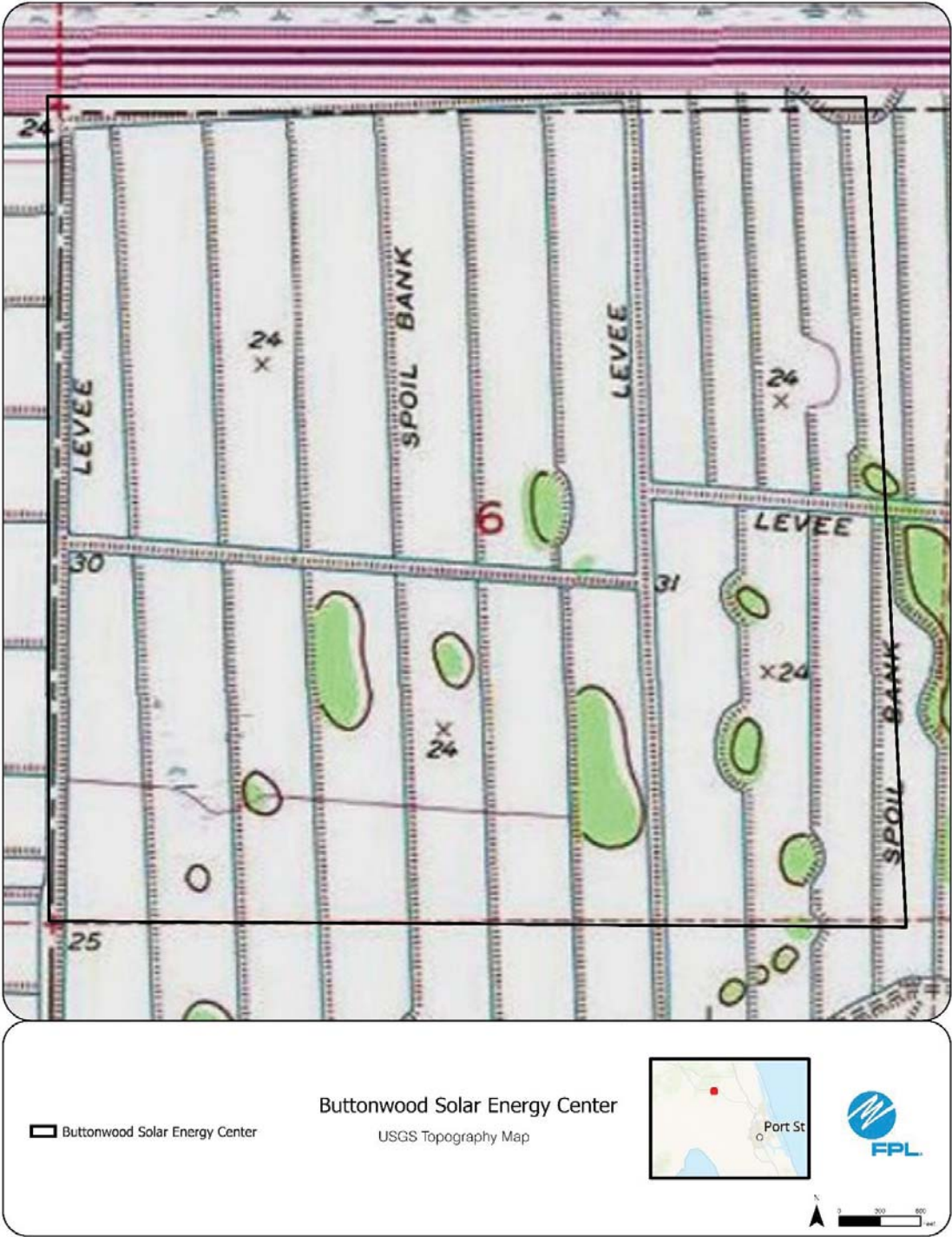
e. Supply Sources

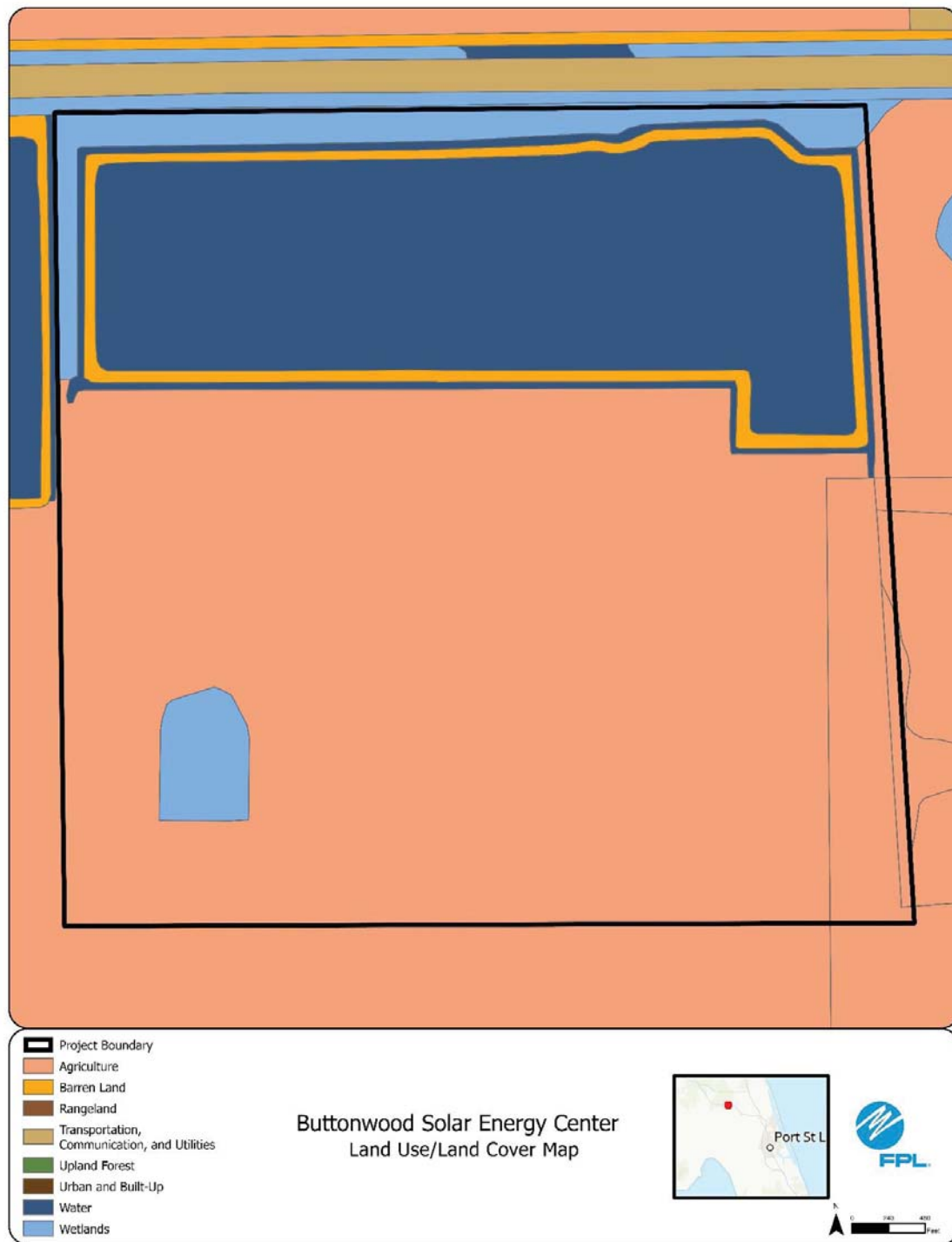
Cooling: Not Applicable for PV.

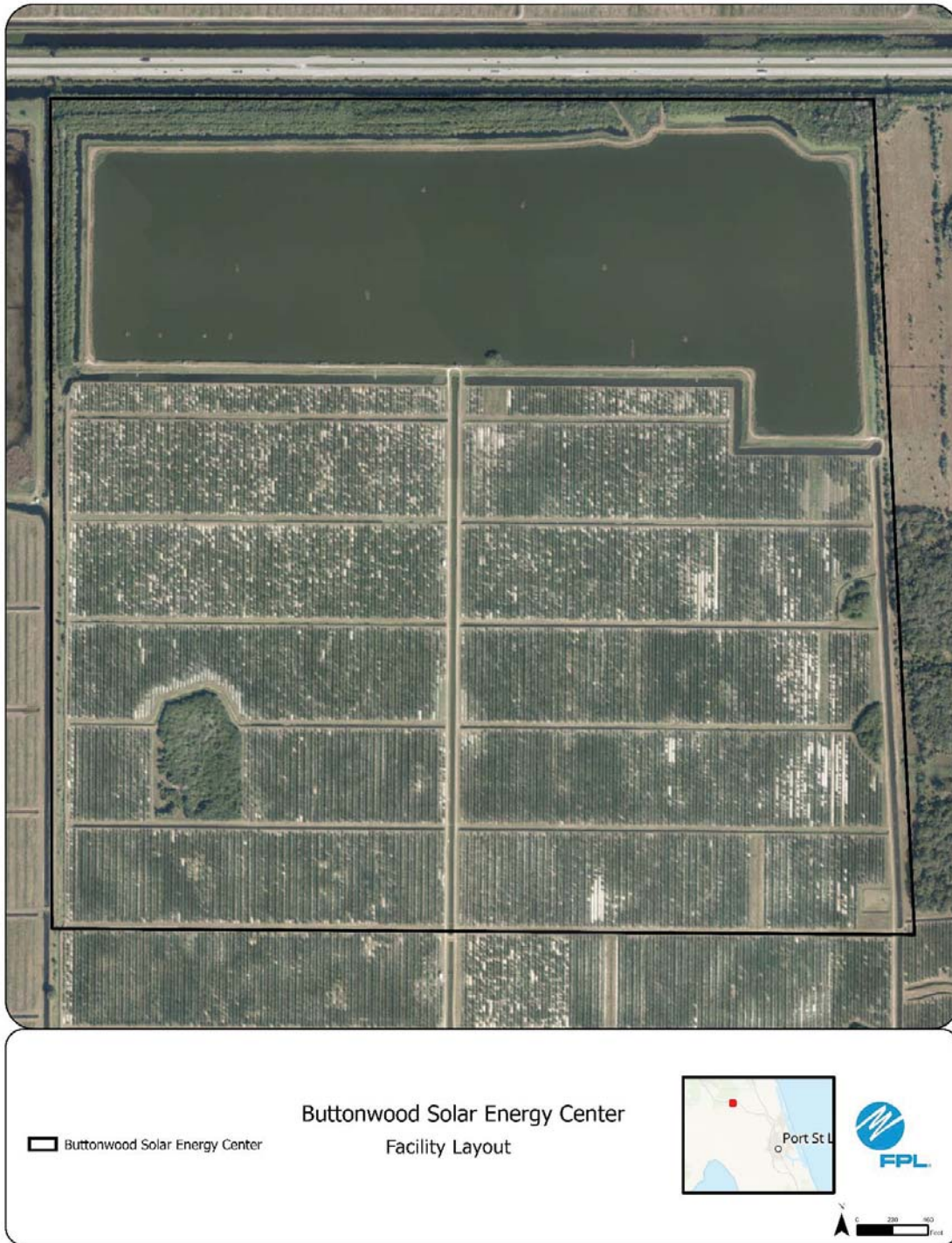
Process: Not Applicable for PV.

Potable: Not Applicable for PV.

Panel Cleaning: Trucked in if and when needed for PV.







FPL Area Potential Site #7: Orchard Solar Energy Center

This potential site in St. Lucie/Indian River County is under evaluation for future PV.

a. U.S. Geological Survey (USGS) Map

See Figures on subsequent pages.

b. Existing Land Uses of Site and Adjacent Areas

Site is an active citrus grove. Adjoining properties include active and inactive citrus groves, improved pastures, undeveloped wetlands, and the 122nd Avenue SW right of way.

c. Environmental Features

The site is an active citrus grove with approximately 40 acres of wetland along its eastern boundary. No adverse impacts to listed species are anticipated.

d. Water Quantities Required

Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Minimal for PV.

Panel Cleaning: Minimal for PV and only needed in the absence of sufficient rainfall.

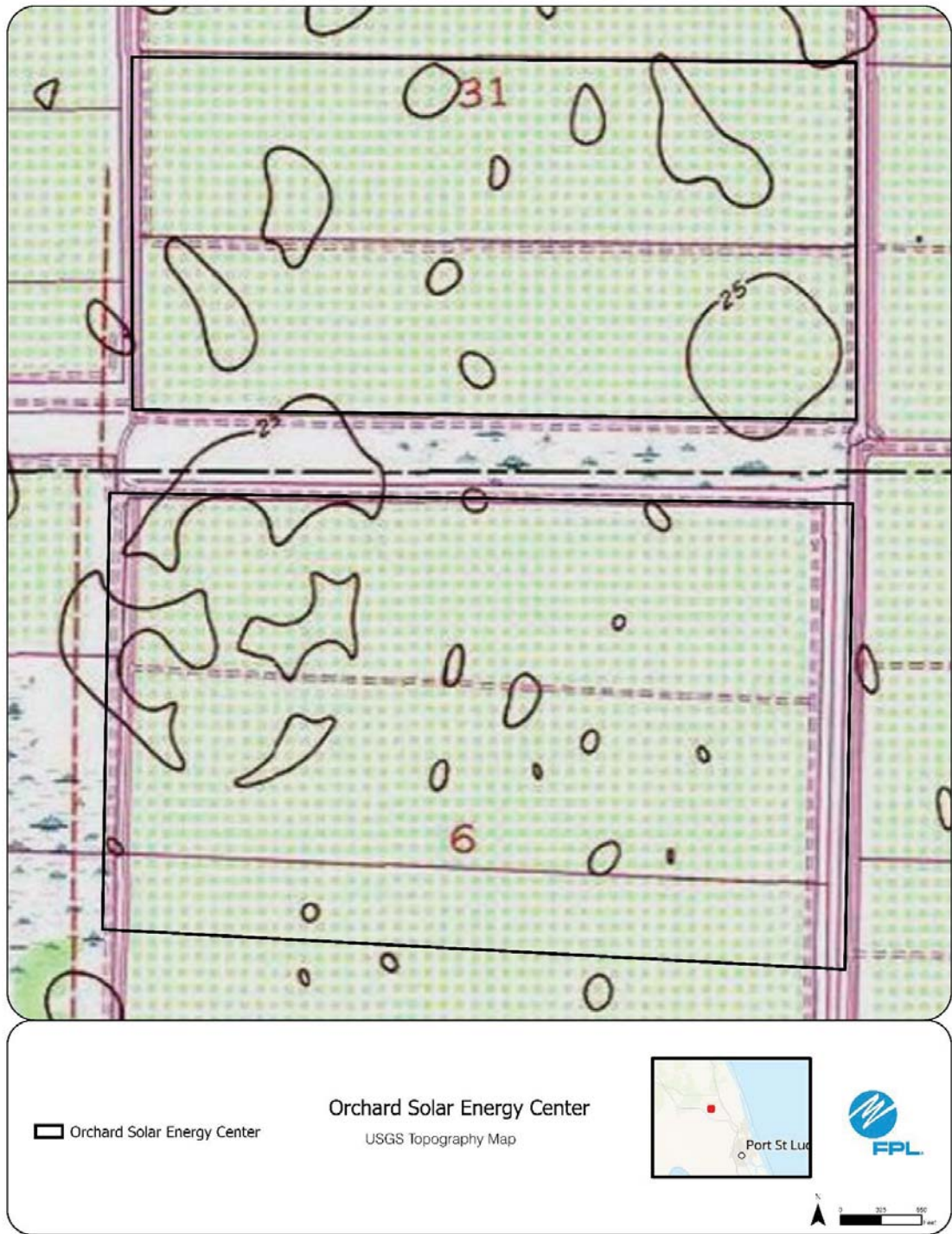
e. Supply Sources

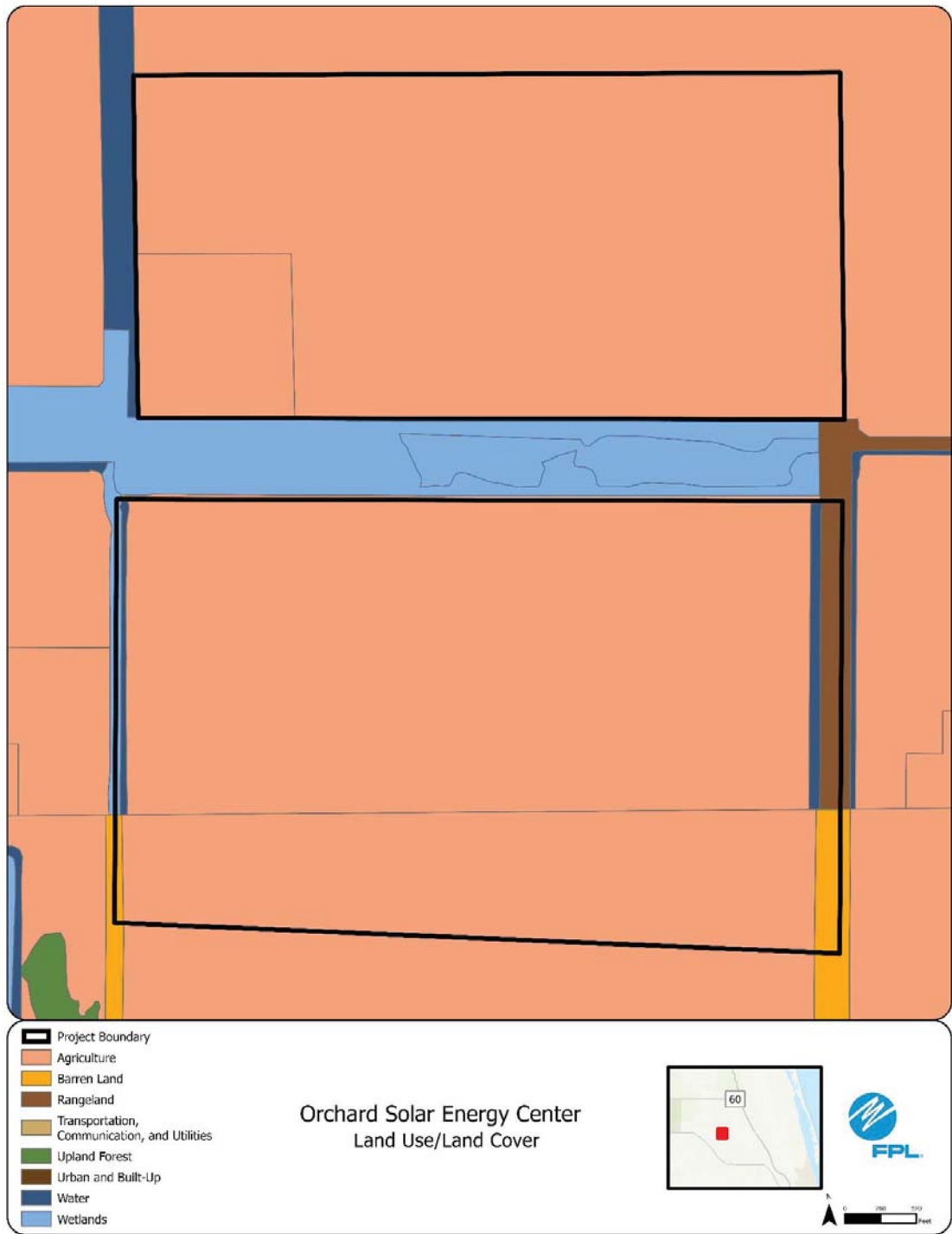
Cooling: Not Applicable for PV.

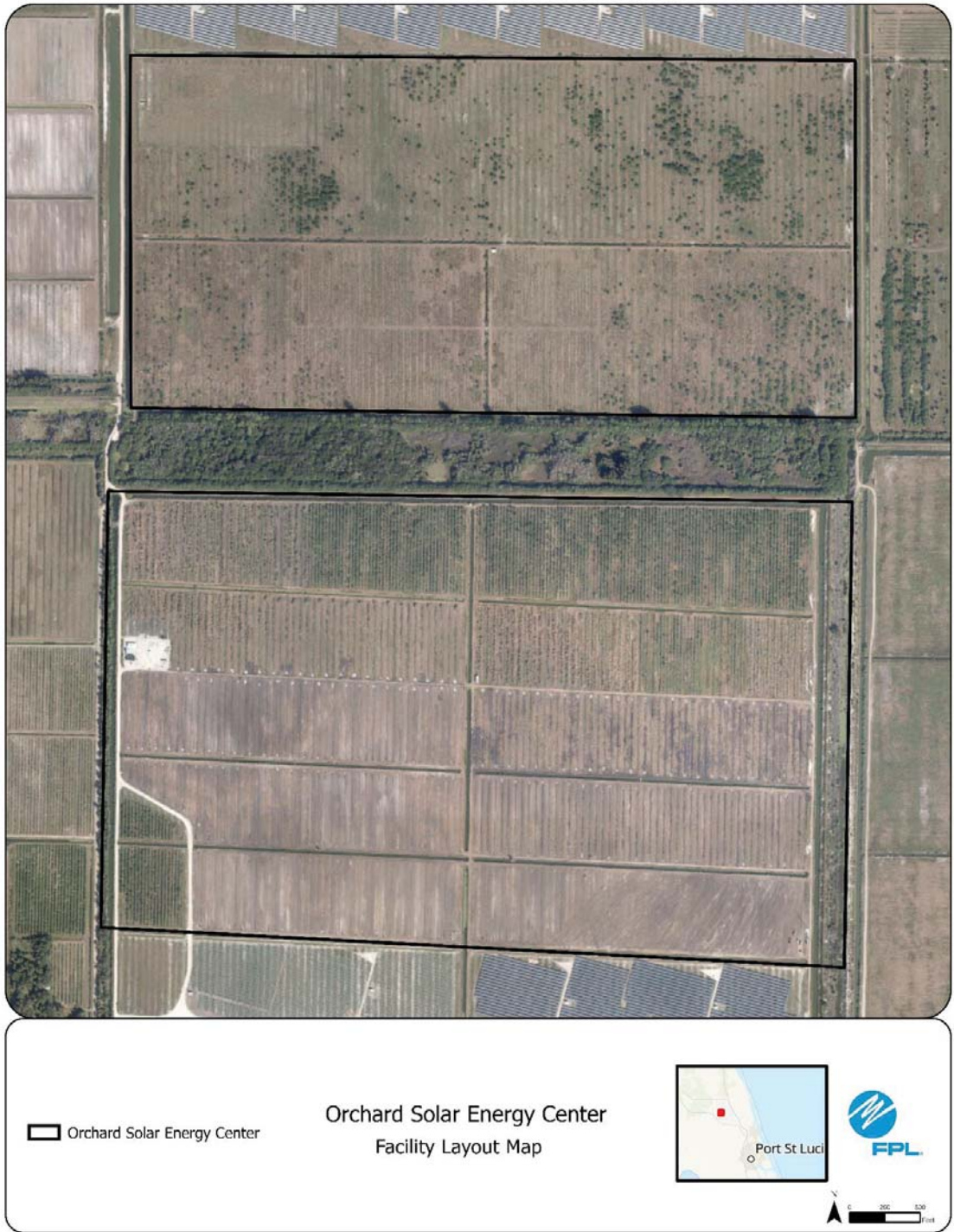
Process: Not Applicable for PV.

Potable: Not Applicable for PV.

Panel Cleaning: Trucked in if and when needed for PV.







FPL Area Potential Site #8: Hog Bay Solar Energy Center

This potential site in DeSoto County is under evaluation for future PV.

a. U.S. Geological Survey (USGS) Map

See Figures on subsequent pages.

b. Existing Land Uses of Site and Adjacent Areas

Site is characterized as active citrus groves. Surrounding area is primarily used for agricultural purposes including cropland, pasture, and citrus groves and undeveloped land formerly used for agricultural purpose in addition to several residential properties.

c. Environmental Features

Site consists mainly of active citrus groves with irrigation ditches occurring throughout the property. No adverse impacts to listed species are anticipated.

d. Water Quantities Required

Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Minimal for PV.

Panel Cleaning: Minimal for PV and only needed in the absence of sufficient rainfall.

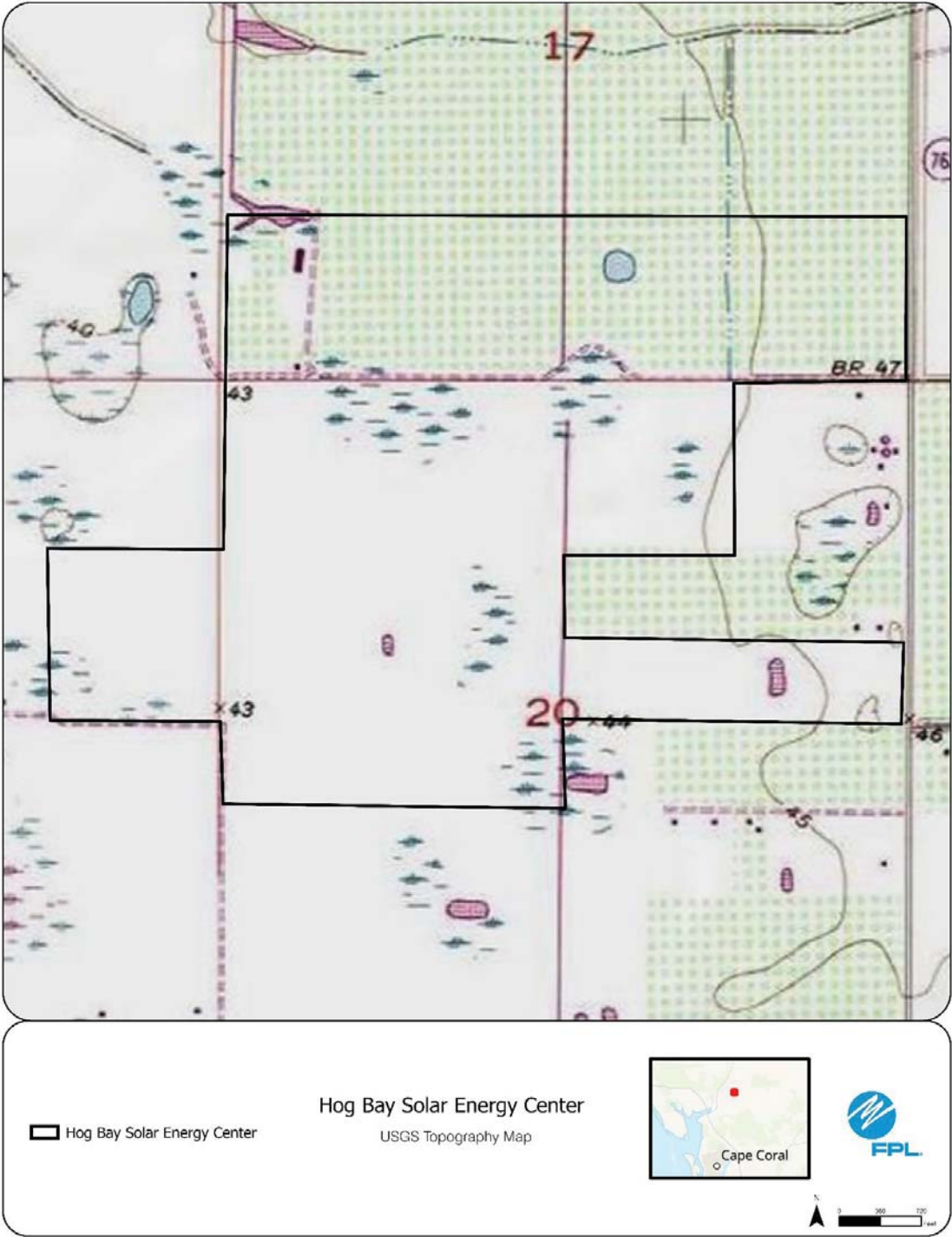
e. Supply Sources

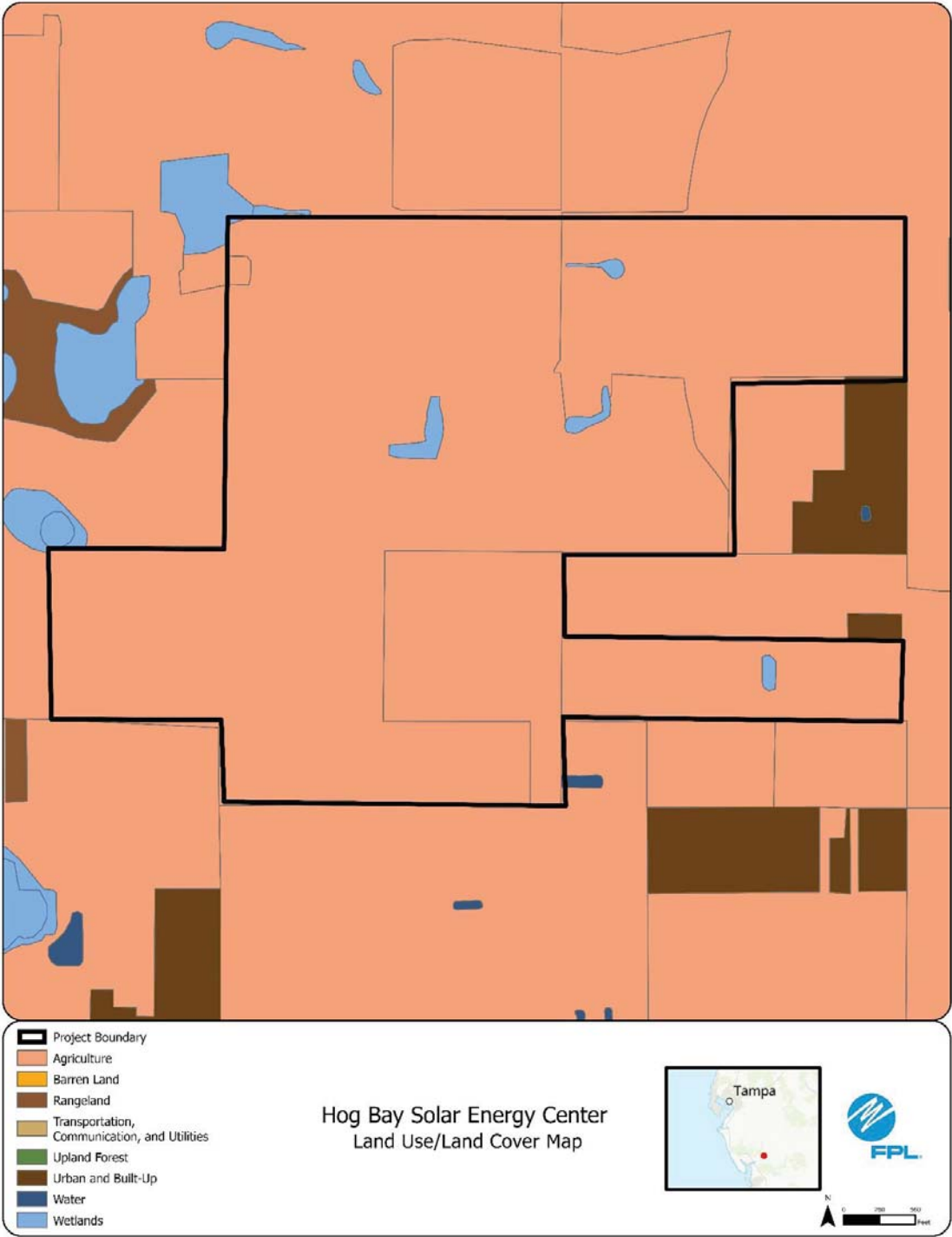
Cooling: Not Applicable for PV.

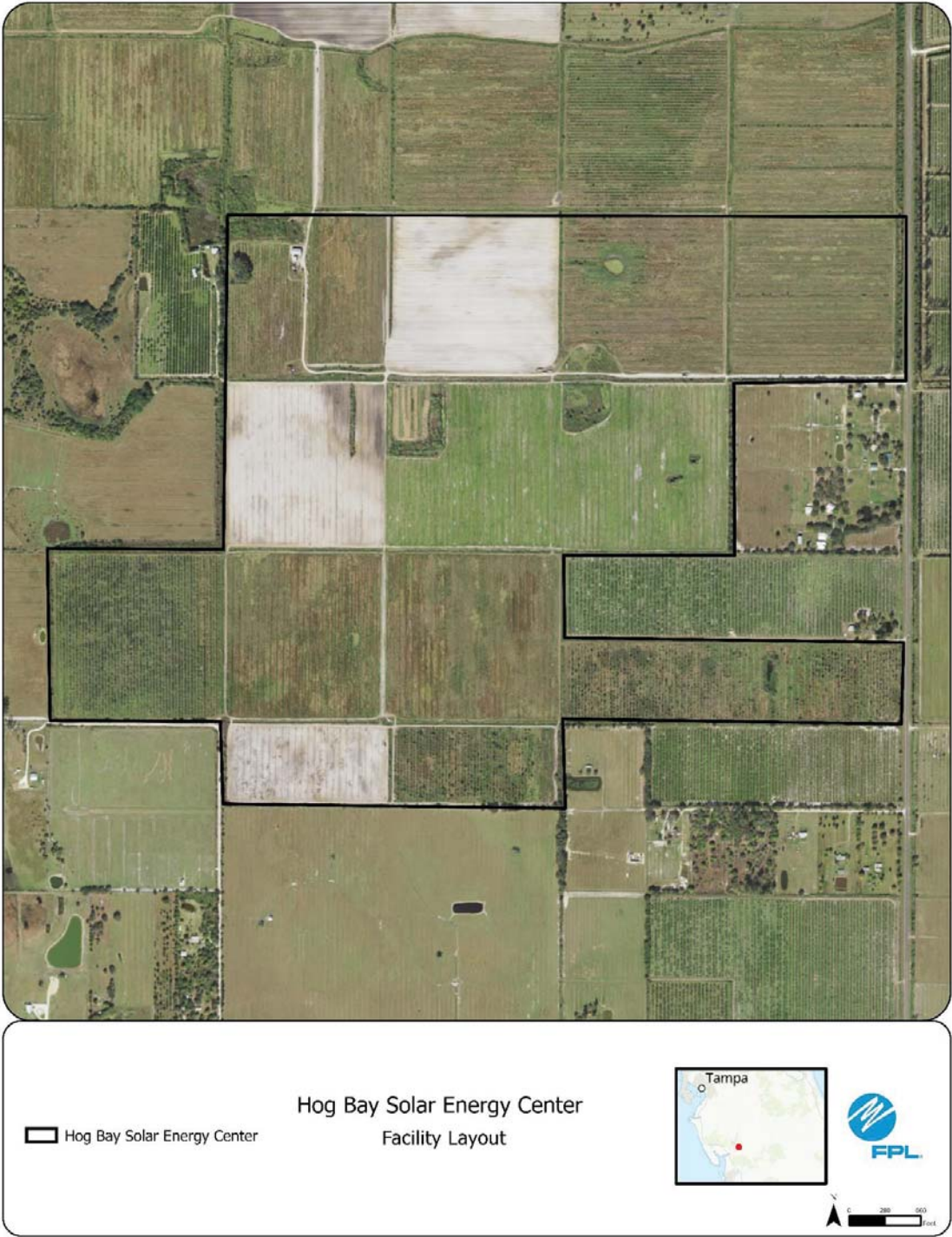
Process: Not Applicable for PV.

Potable: Not Applicable for PV.

Panel Cleaning: Trucked in if and when needed for PV.







FPL Area Potential Site #9: Green Pasture Solar Energy Center

This potential site in Charlotte County is under evaluation for future PV.

a. U.S. Geological Survey (USGS) Map

See Figures on subsequent pages.

b. Existing Land Uses of Site and Adjacent Areas

Site is characterized as citrus groves and grazing land. Surrounding area is primarily used as pasture/grazing land and citrus groves.

c. Environmental Features

Site is generally comprised of pastureland for cattle with sections of citrus groves and sod-grass farmland. No adverse impacts to listed species are anticipated.

d. Water Quantities Required

Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Minimal for PV.

Panel Cleaning: Minimal for PV and only needed in the absence of sufficient rainfall.

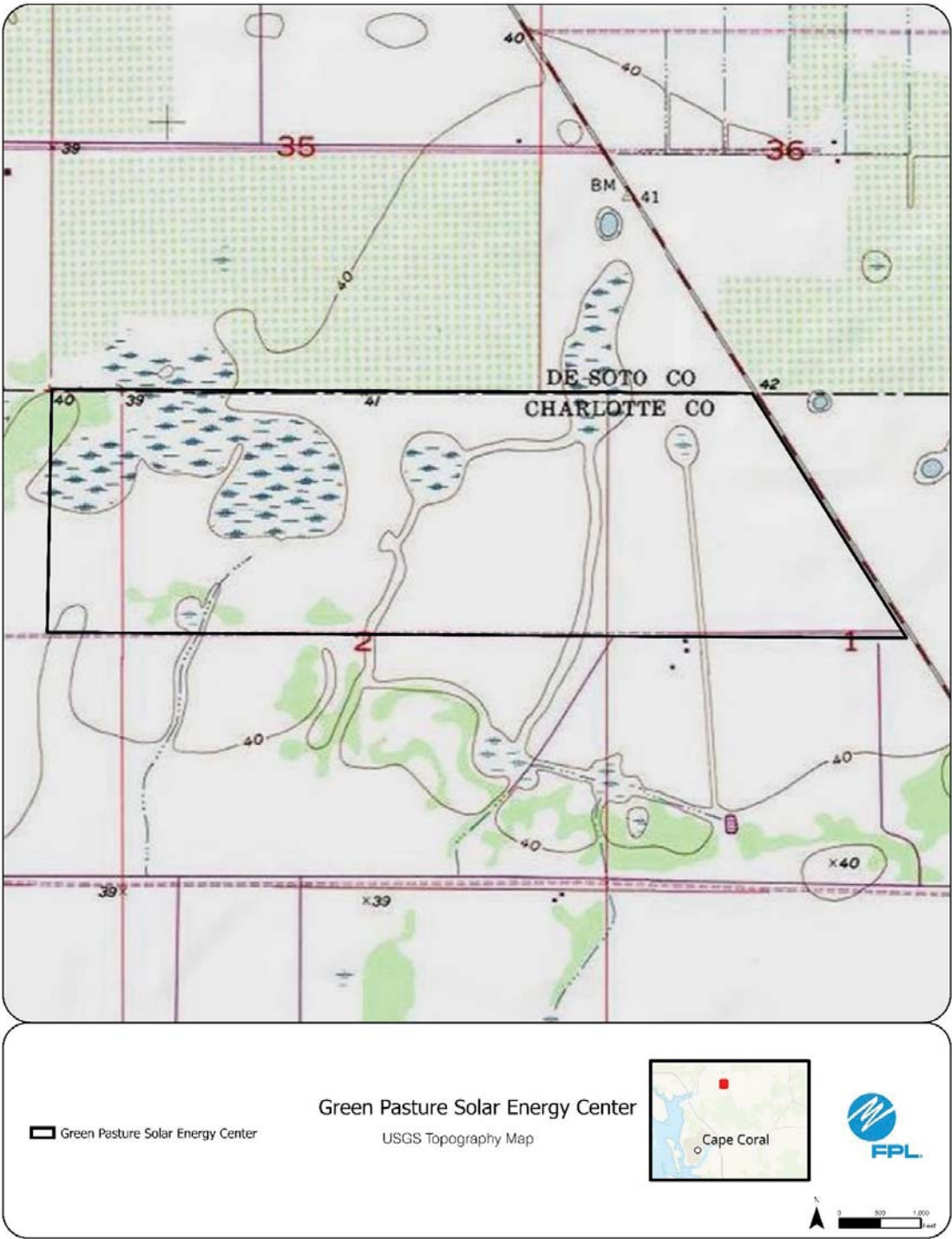
e. Supply Sources

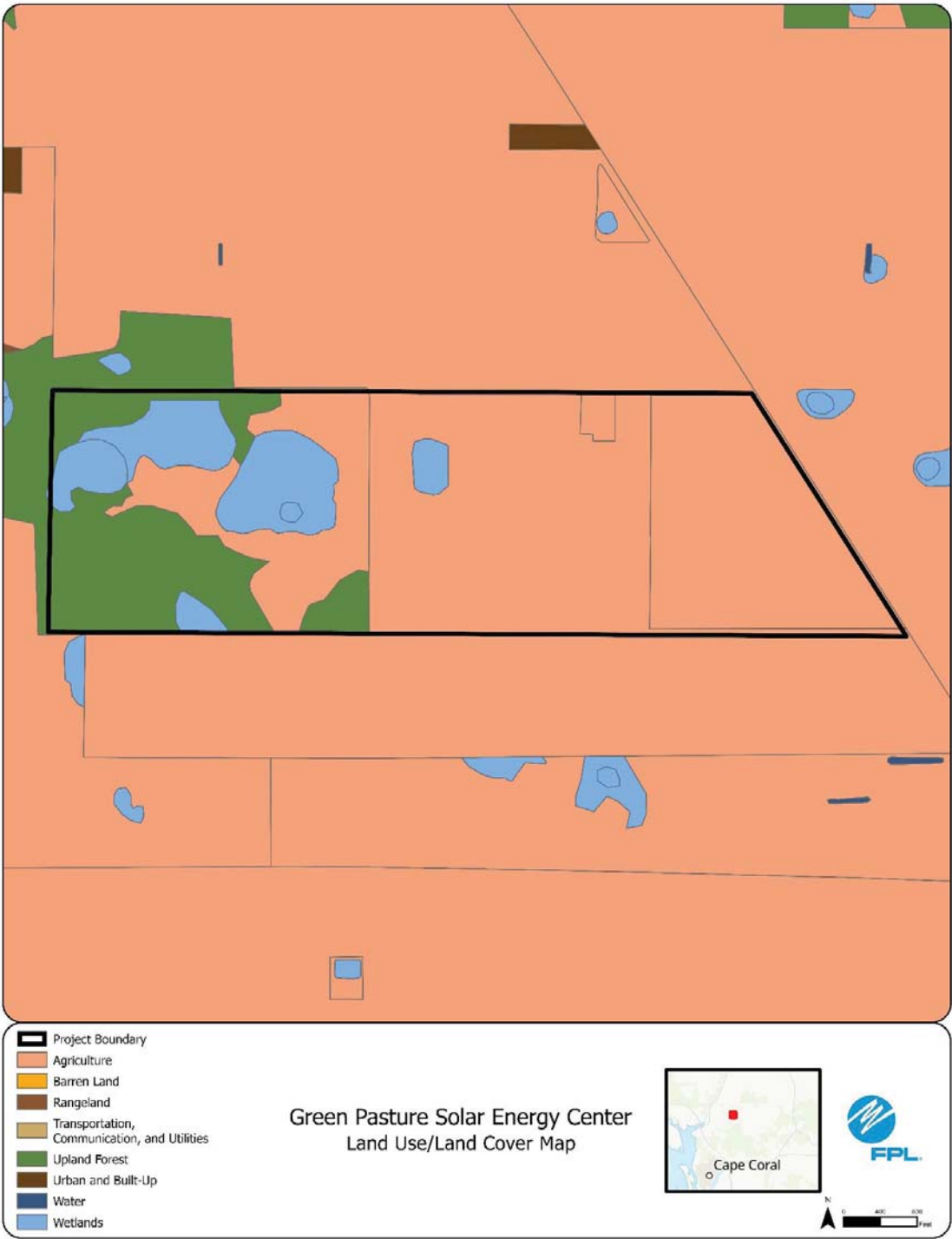
Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Not Applicable for PV.

Panel Cleaning: Trucked in if and when needed for PV.







FPL Area Potential Site #10: Fox Trail Solar Energy Center

This potential site in Brevard County is under evaluation for future PV.

a. U.S. Geological Survey (USGS) Map

See Figures on subsequent pages.

b. Existing Land Uses of Site and Adjacent Areas

Site is active row crop farmland and unused agricultural land. Surrounding area is primarily used for agricultural purposes including cropland and pasture, in addition to several residential properties.

c. Environmental Features

The site includes active row cropland, agricultural ditches, and canals. No adverse impacts to listed species are anticipated.

d. Water Quantities Required

Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Minimal for PV.

Panel Cleaning: Minimal for PV and only needed in the absence of sufficient rainfall.

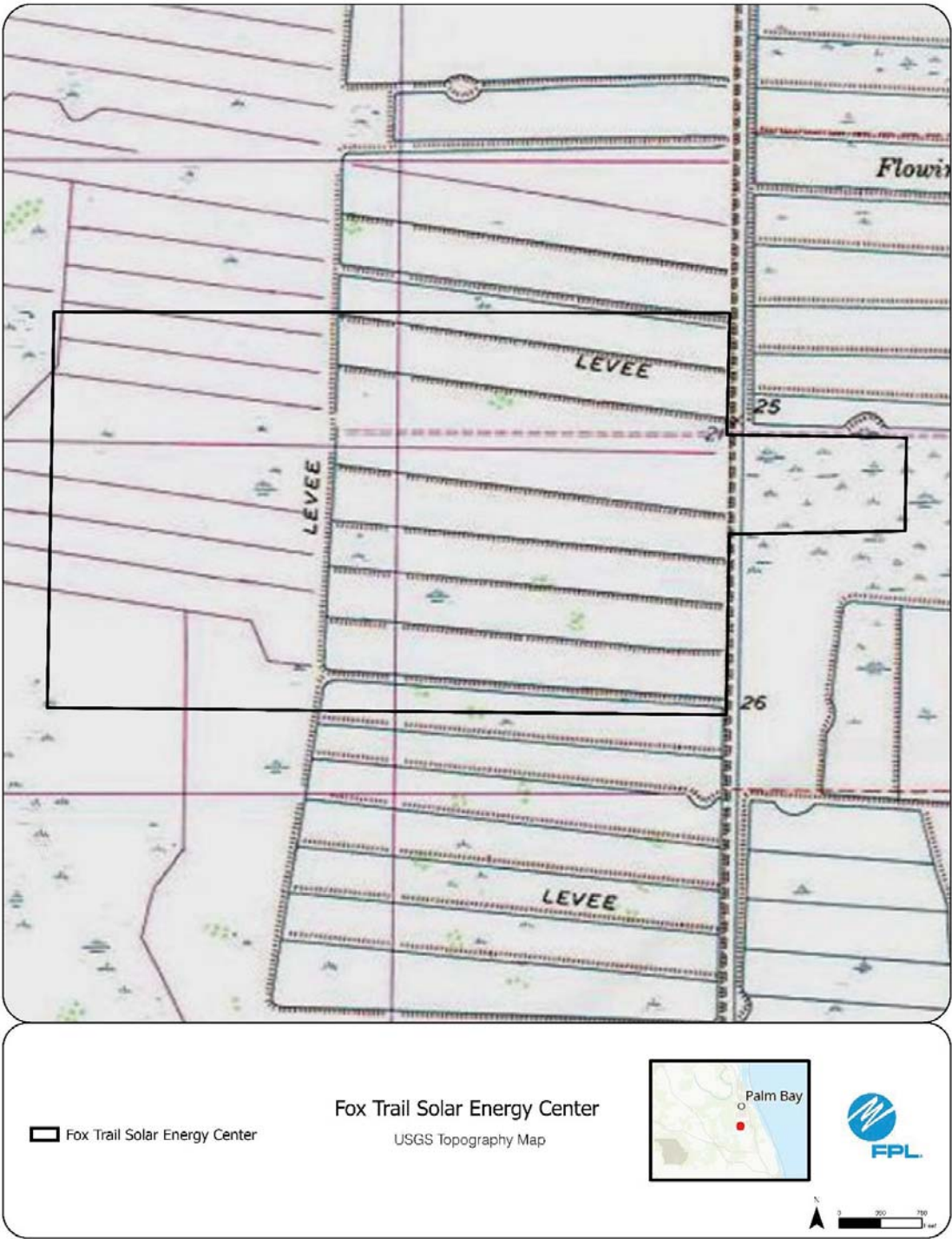
e. Supply Sources

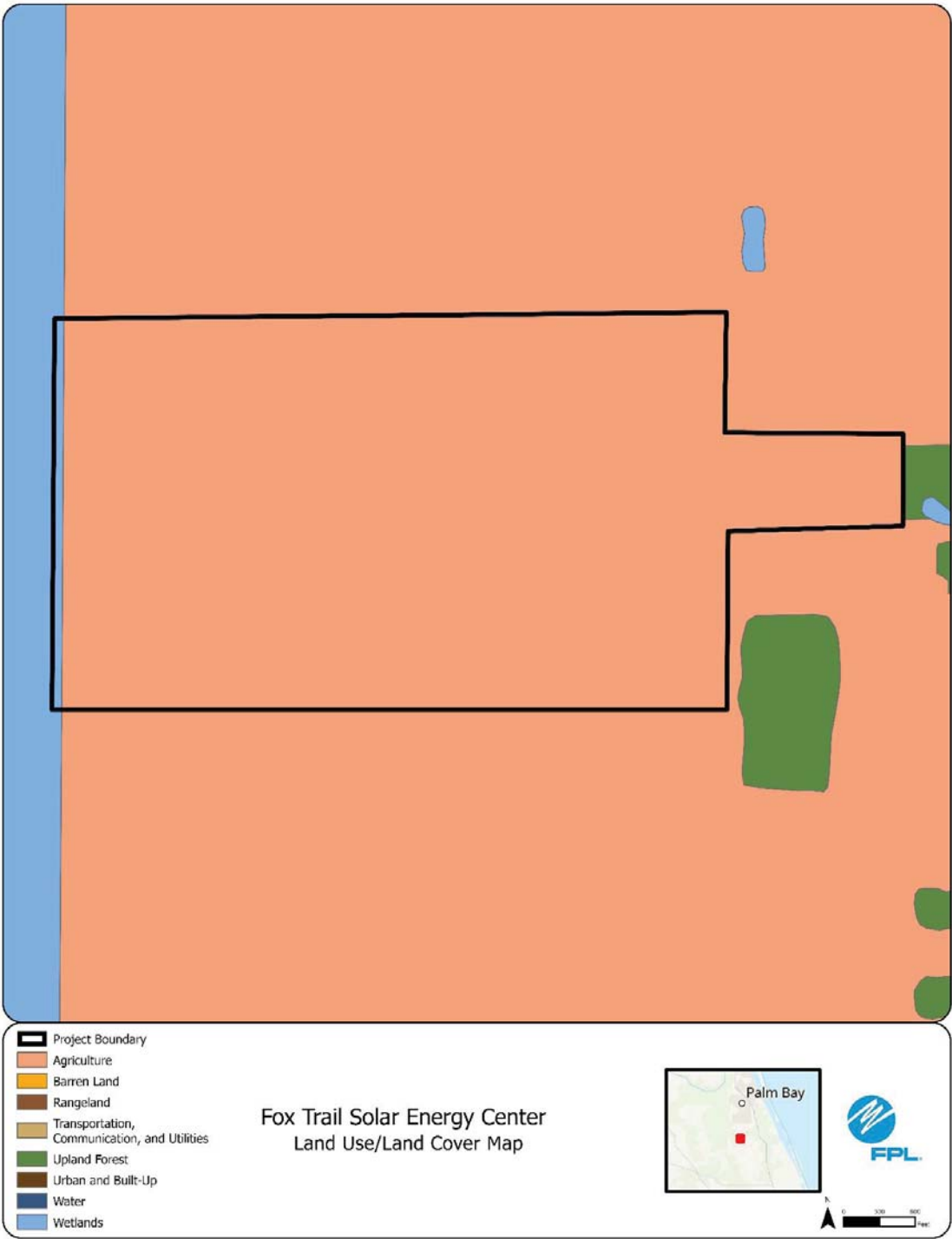
Cooling: Not Applicable for PV.

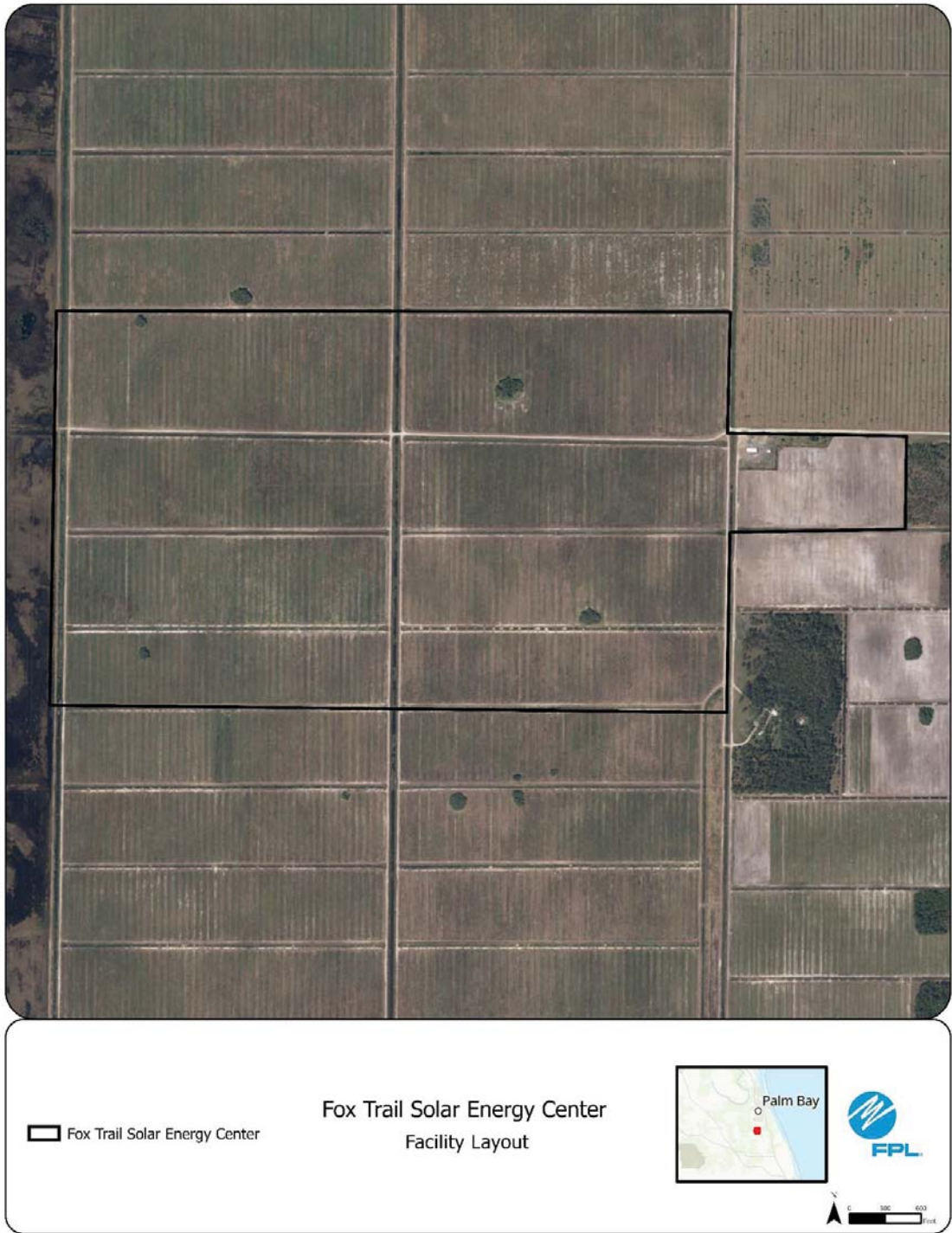
Process: Not Applicable for PV.

Potable: Not Applicable for PV.

Panel Cleaning: Trucked in if and when needed for PV.







FPL Area Potential Site #11: Hendry Solar Energy Center

This potential site in Hendry County is under evaluation for future PV.

a. U.S. Geological Survey (USGS) Map

See Figures on subsequent pages.

b. Existing Land Uses of Site and Adjacent Areas

Site is active agricultural fields surrounded by agricultural land and low density residential.

c. Environmental Features

The site includes pasture and agricultural land, agricultural ditches and canals. No adverse impacts to listed species are anticipated.

d. Water Quantities Required

Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Minimal for PV.

Panel Cleaning: Minimal for PV and only needed in the absence of sufficient rainfall.

e. Supply Sources

Cooling: Not Applicable for PV.

Process: Not Applicable for PV.

Potable: Not Applicable for PV.

Panel Cleaning: Trucked in if and when needed for PV.

