

# UPPER MYAKKA RIVER CONSERVATION PROJECT

## Wingate East Mine Off-Site Mitigation Project

Myakka River Management Coordinating Council Meeting  
December 11, 2015



# Compensatory Mitigation



**Compensatory Mitigation is provided by Mosaic through Onsite and Offsite Mitigation**

## **Onsite Mitigation Elements:**

- Onsite mitigation focuses on the mine (site) wide reclamation plan to optimize compensatory mitigation in terms of enhancing wildlife corridors (IHN)
- Preservation and protection of avoided lands
- In-kind establishment to replace wetlands, streams and their associated functions
- Protection of established wetlands and streams via perpetual conservation easements



# What is Offsite Mitigation?



- Projects that offset wetland impacts by preserving offsite wetlands (**outside the project boundary, but in addition to onsite mitigation**) within the same watershed
- Offsite mitigation projects or initial phases must be in place providing wetland function prior to mining activities
  - Reduces Temporal Lag
- Mosaic's offsite mitigation projects are incorporated into the proposed mining permits
- Offsite Mitigation Projects:
  - Involve larger, more ecologically valuable parcels
  - Rigorous scientific and technical analysis, planning and implementation
  - Significant investment of financial resources

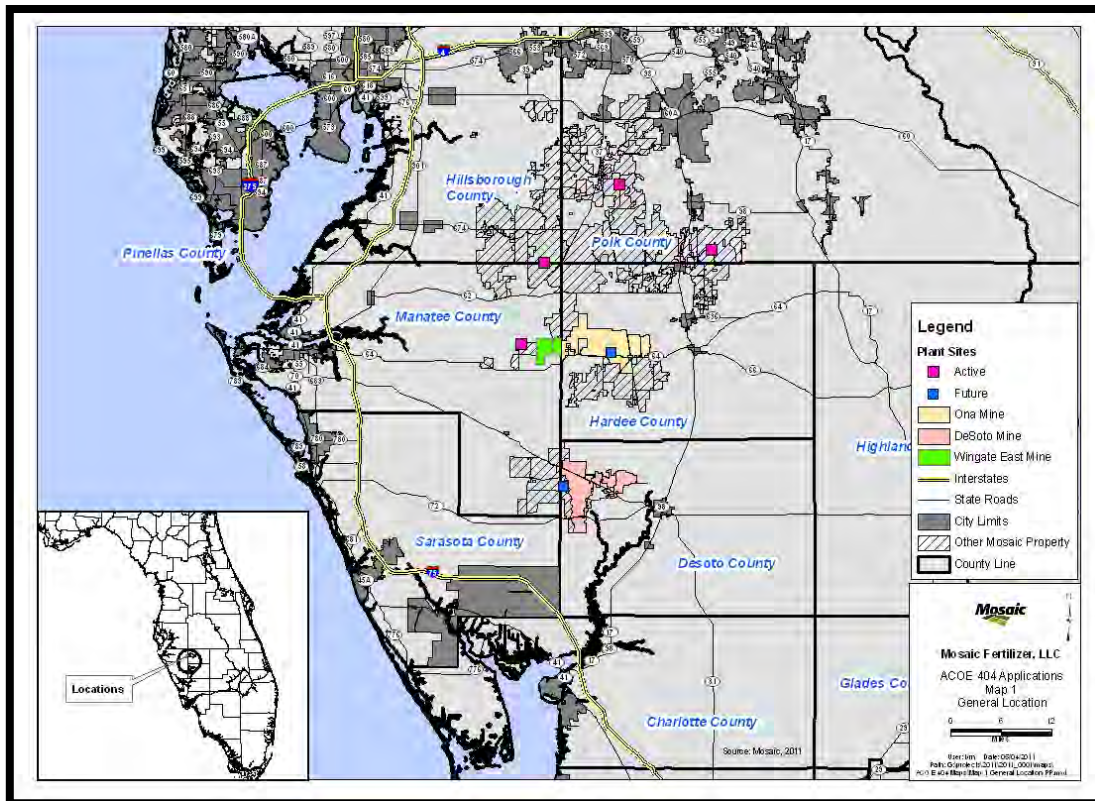
# Offsite Mitigation Projects



- Projects focus on benefits at watershed/ regional scale as well as site specific benefits
- The CHNEP Comprehensive Conservation and Management Plan (CCMP) meets the definition of a watershed plan
- CCMP Four Priority Problems:
  - Water Quality Degradation
  - Hydrologic Alterations
  - Fish and Wildlife Habitat Loss
  - Stewardship Gaps
- Offsite mitigation projects will employ state-of-the-art wetland and stream restoration techniques



# Wingate East Mine Update



## Federal CWA 404 Permit

- Project Evaluated as Part of the AEIS
- November 26, 2014, Submitted Revised Application Incorporating AEIS Framework and Findings

## Florida ERP Permit

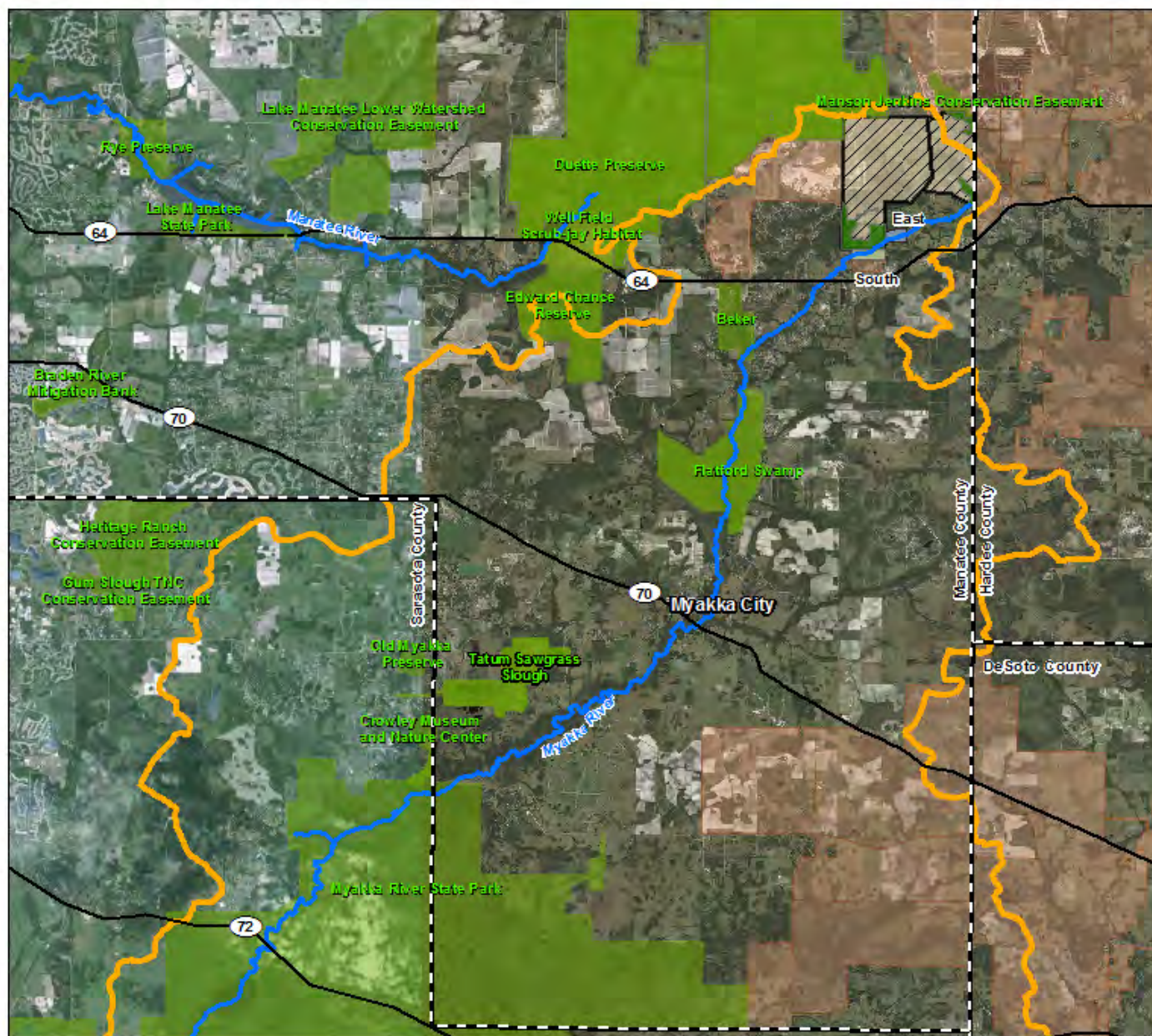
- Issued November 13, 2015

## Manatee County

- Deemed Complete November 16, 2015



# Myakka River Basin Conservation Lands

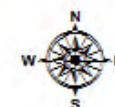


## Location Key



## Legend

- County Lines
- Major Rivers
- Myakka River Basin
- Conservation Lands
- East Parcel
- South Parcel
- Wingate East Boundary
- Wingate East Boundary
- Mosaic Holdings
- Wingate East Preservation

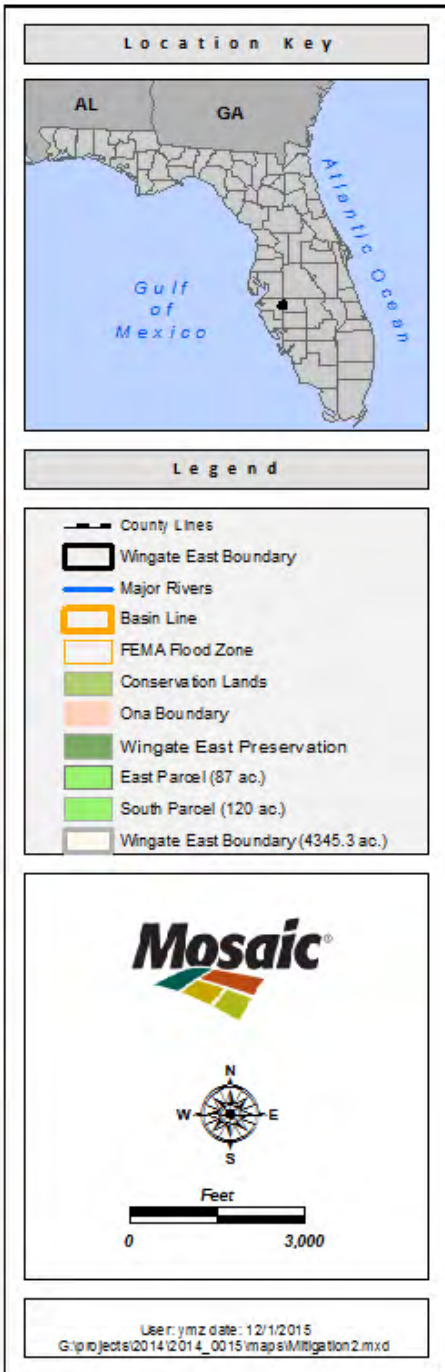
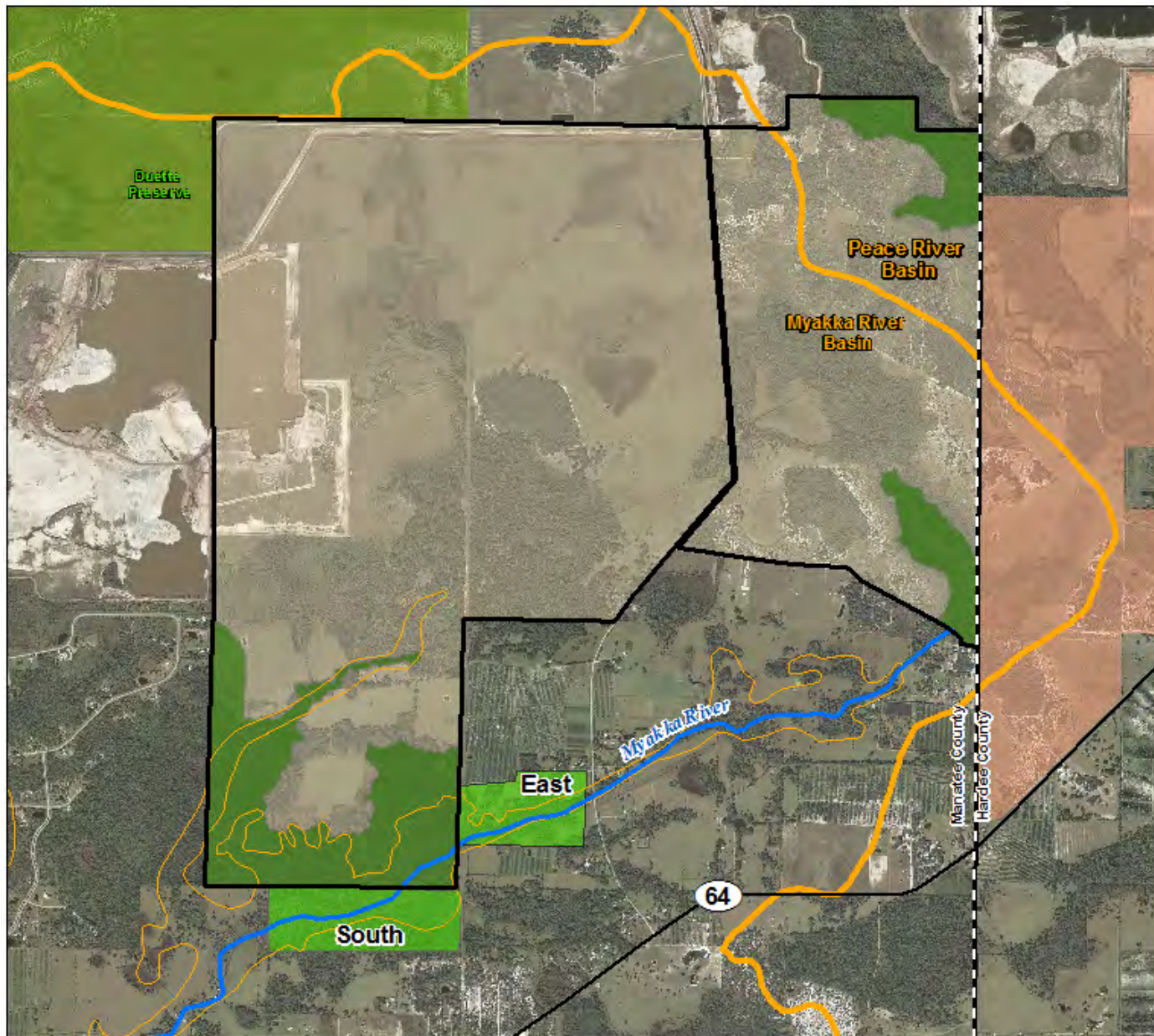


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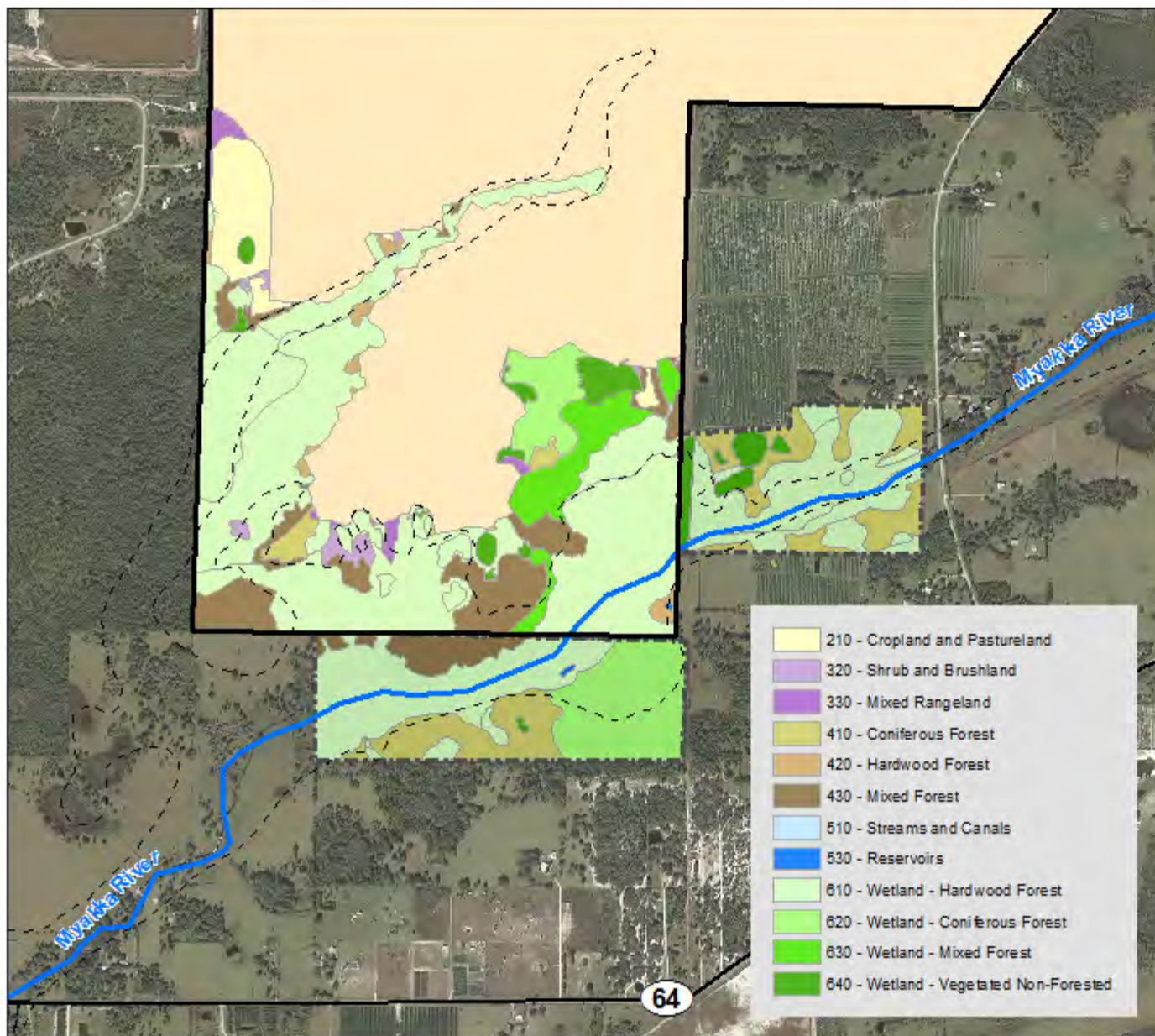


# Myakka River Headwaters Project Parcels





# Myakka River Headwater Project



## Location Key



## Legend

- Major Rivers
- FEMA Flood Zone
- Myakka River Headwater Project
- Wingate East Boundary



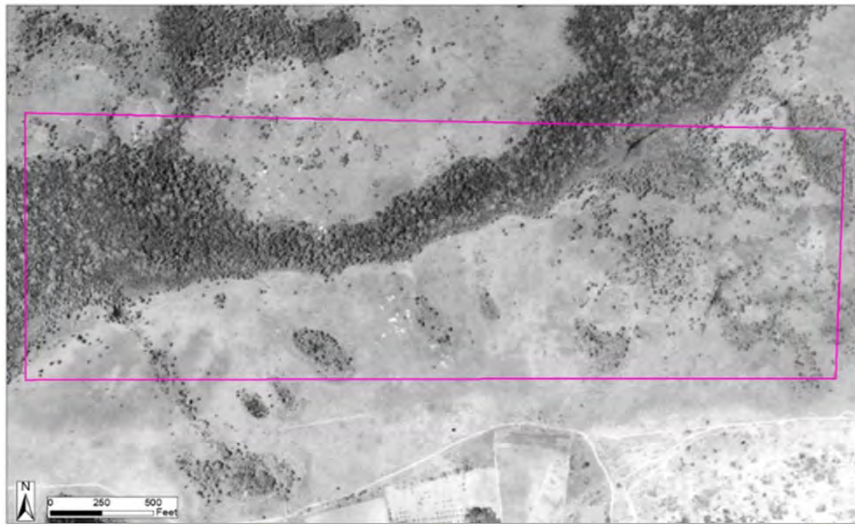
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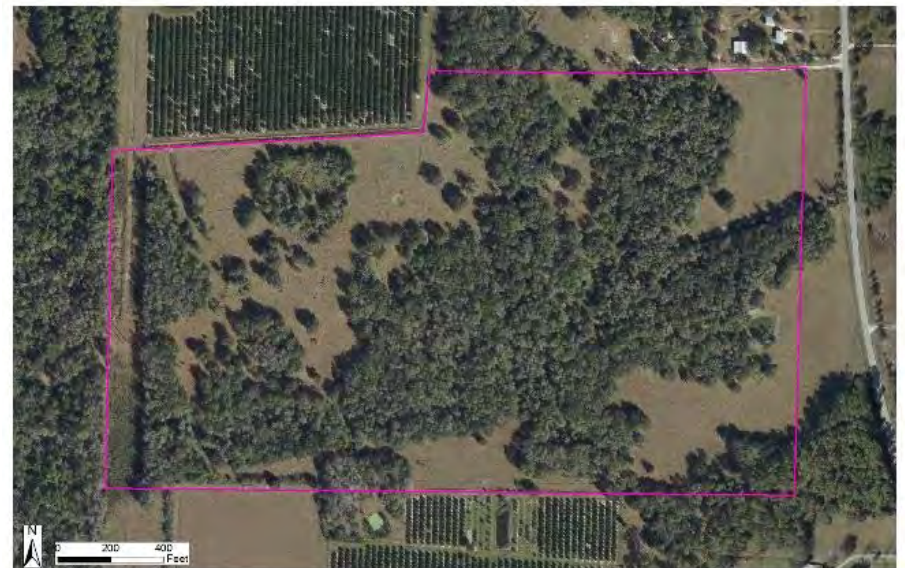
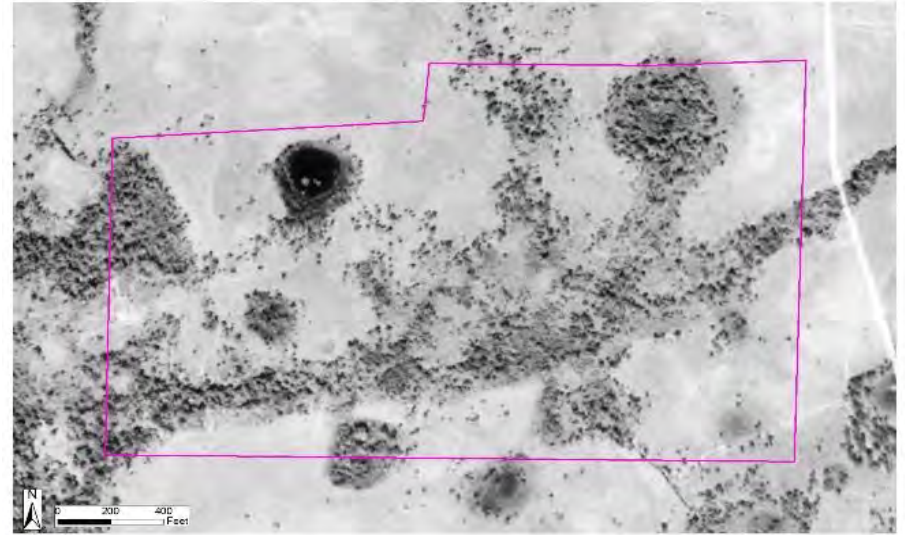


# 1940's Historical Aerials vs Today

**SOUTH PARCEL**

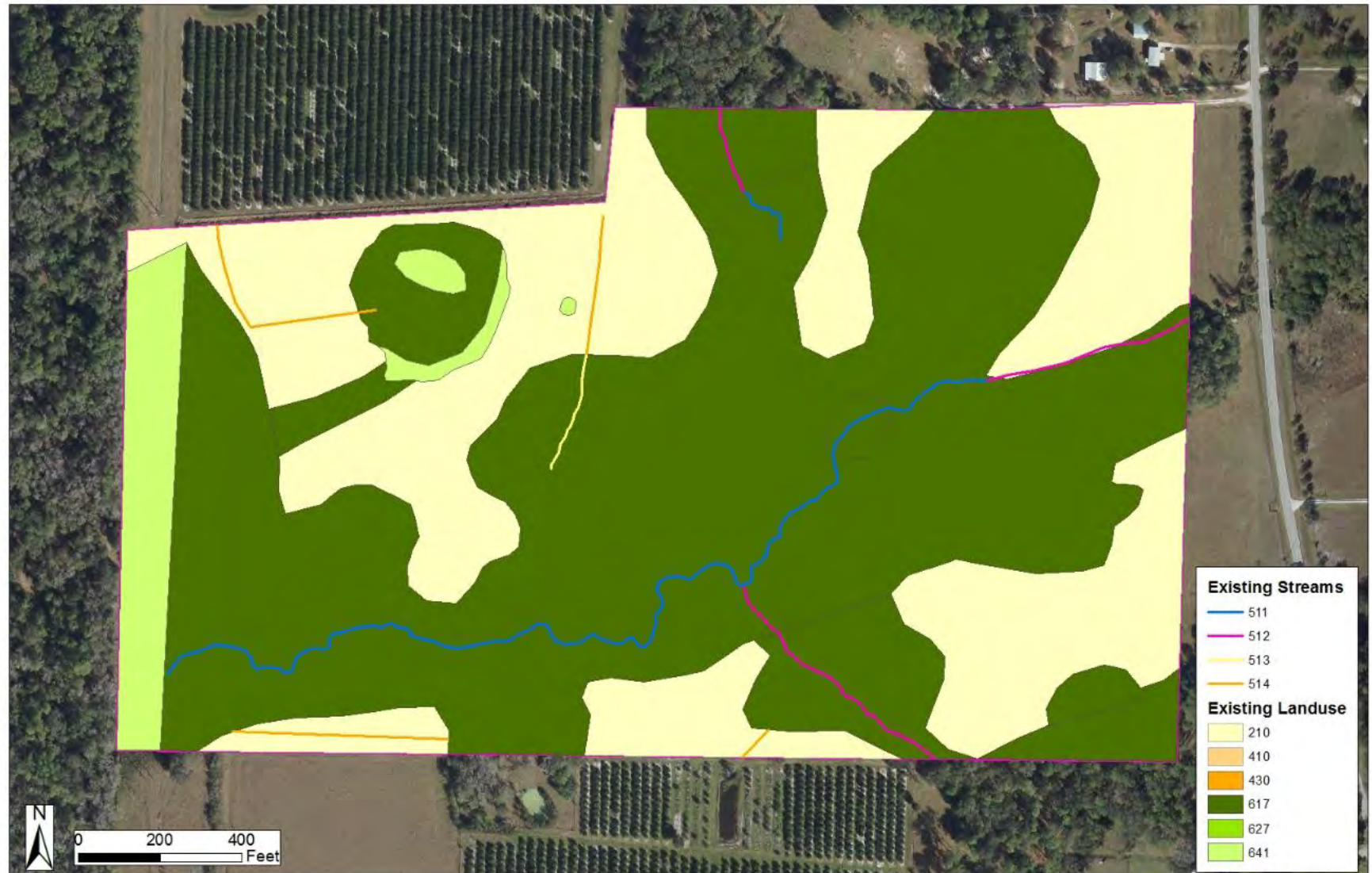


**EAST PARCEL**



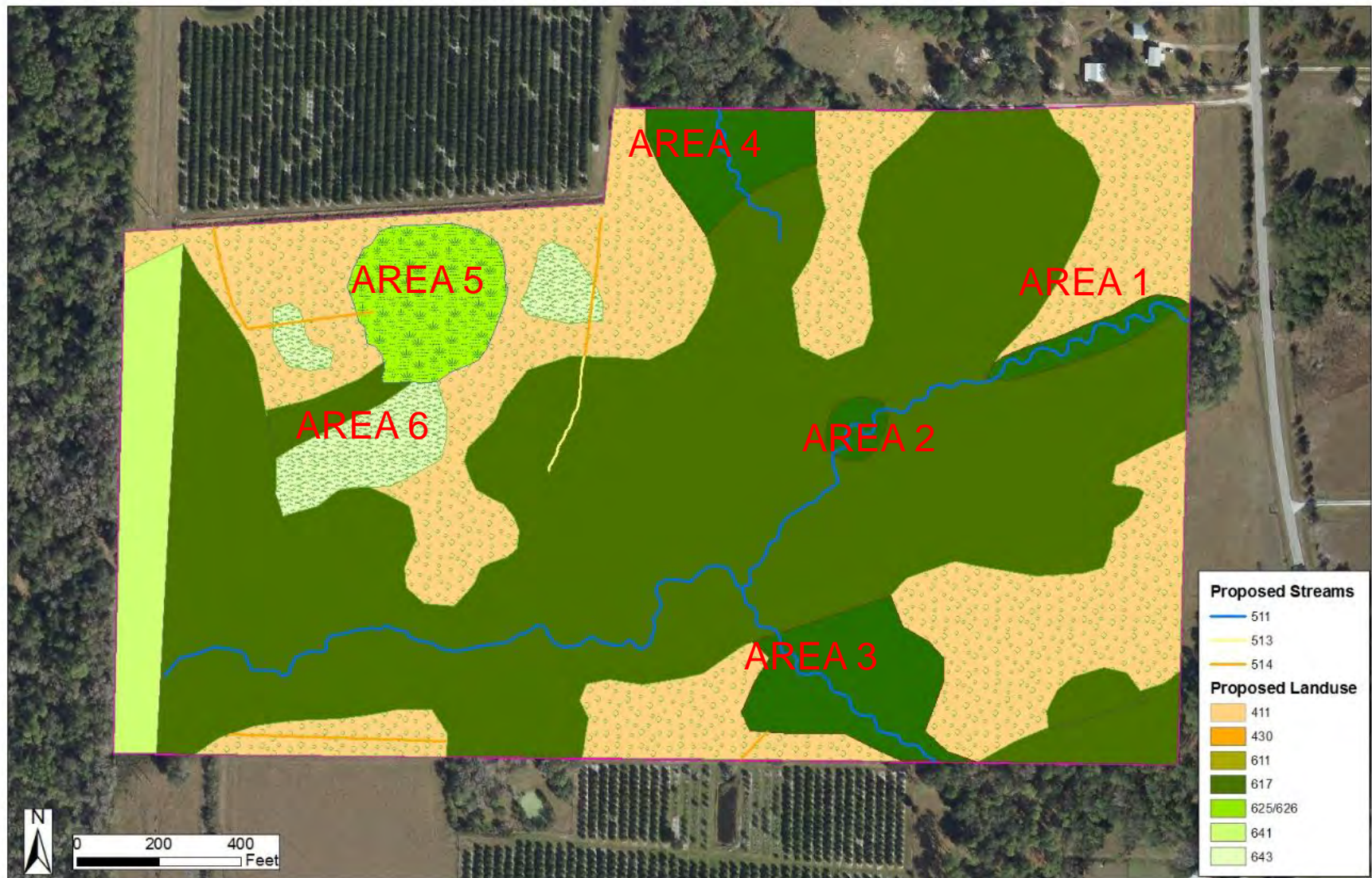


# East Parcel– Existing Conditions





# East Parcel – Proposed Conditions





# Stream and Wetland Restoration Activities

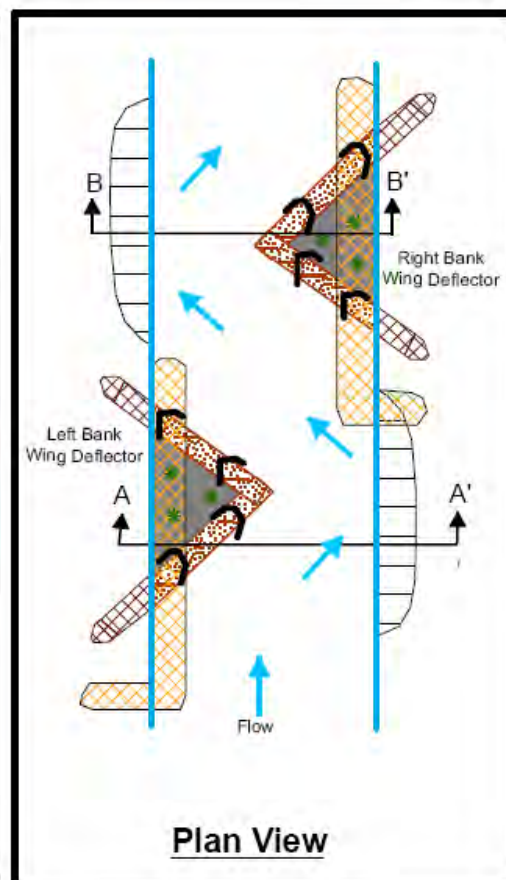
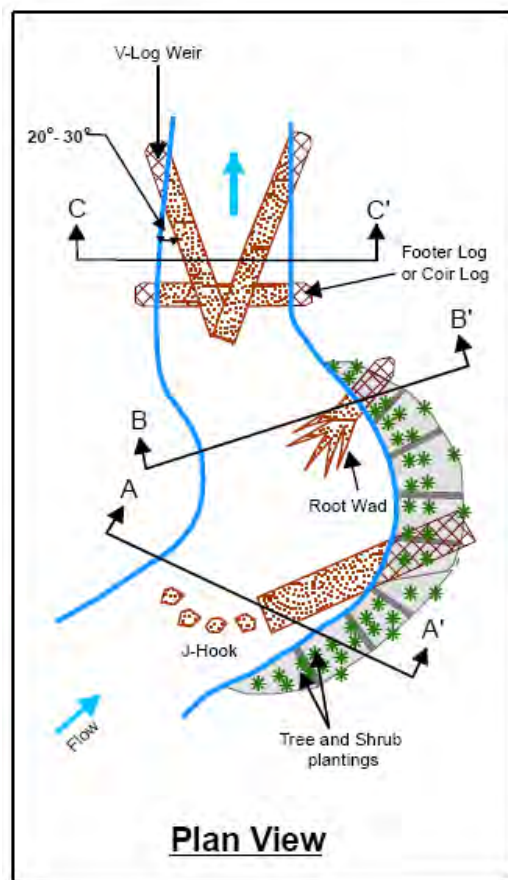
## Existing Conditions





# Stream and Wetland Restoration Activities

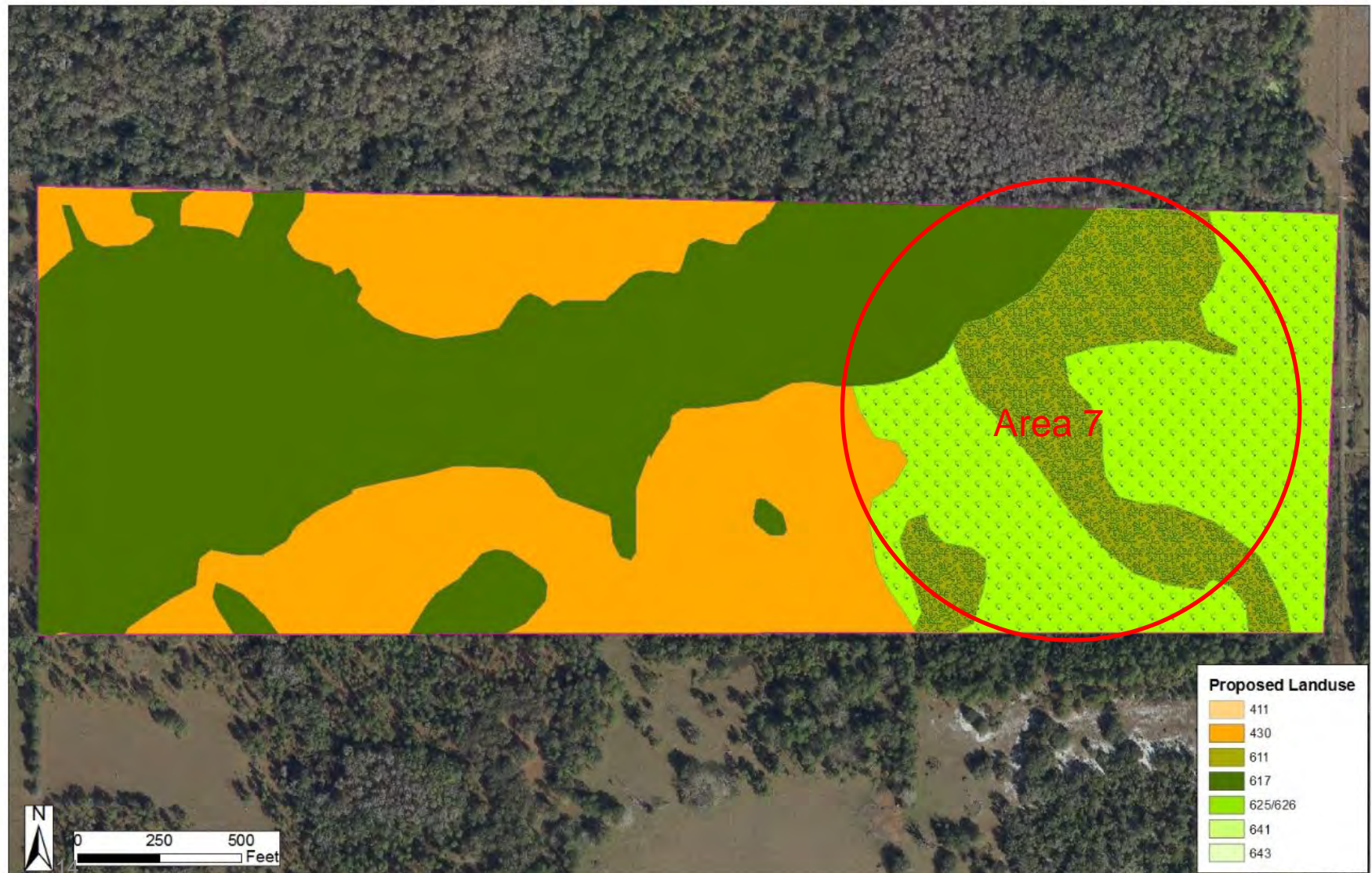
## Proposed Conditions



Wing deflector (Maron Run)

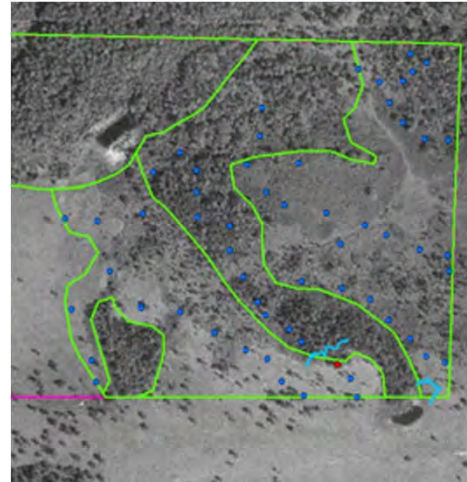


# South Parcel – Proposed Conditions





# Area 7 - Wetland Enhancement



## – Existing conditions

- Extensive encroachment of pines
- 35.7 acres slash pine swamp



## – Proposed conditions

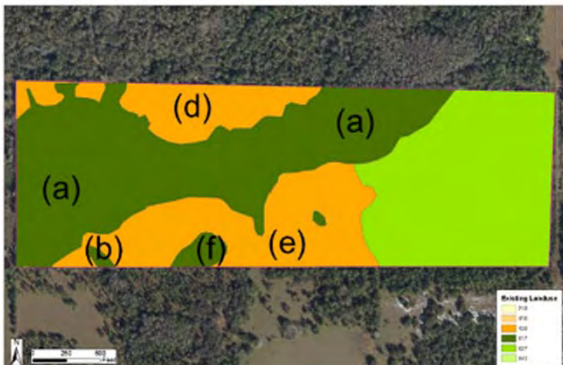
- 23.2 acres hydric pine flatwoods/savanna,
- 12.5 acres bay strands





# Conservation Opportunities Within Properties

- Myakka River bottomlands (a) & (c)
- Seepage Swamps (b)
- Hammocks (d)
- Pine flatwoods/hammocks (e)
- Palustrine hardwood swamps (f)





# Myakka River Headwaters Project Summary



- Regionally significant project within the Myakka River Watershed
  - Conserves a 207-acre portion of Myakka River's headwater corridor
  - 46% property to be ecologically improved
    - » Restore fire ecology
    - » Increase diversity
    - » Reduce erosion (2,243 LF stream stabilization)
  - Widens and lengthens the preserved Wingate East preservation corridor
  - Permanently preserves and extensively buffers 1.5 miles of the Myakka River



# Incorporation of CHNEP Priority Actions

| Offsite Mitigation Plan Objectives | CHNEP Priority Action | Method of Implementation   |
|------------------------------------|-----------------------|--|
| Myakka River Headwaters Project    | WQ-E                  | Offset anthropogenic impacts elsewhere in watershed  |
|                                    | FW-C                  | Restore freshwater wetlands  |
|                                    | FW-F                  | Restore and protect aquatic and terrestrial native habitat                                     |
|                                    | FW-H                  | Increase conservation lands  |
|                                    | FW-L                  | Remove exotic vegetation   |
|                                    | HA-N                  | Restore lands with changed hydroperiods and reverse historic removal of flood storage capacity |
|                                    | WQ-D                  | Reduce non-point source pollutants associated with stormwater runoff                           |
|                                    | WQ-E                  | Protect water quality to offset anthropogenic impacts elsewhere in watershed                   |



# Questions

