



CITY OF BRYAN



Permit for Brushy Creek Wastewater Treatment Facility

January 13, 2022

PUBLIC MEETING

**CDM
Smith**



Introductions



City of Bryan
Mathews & Freeland
CDM Smith



Need for the Plant

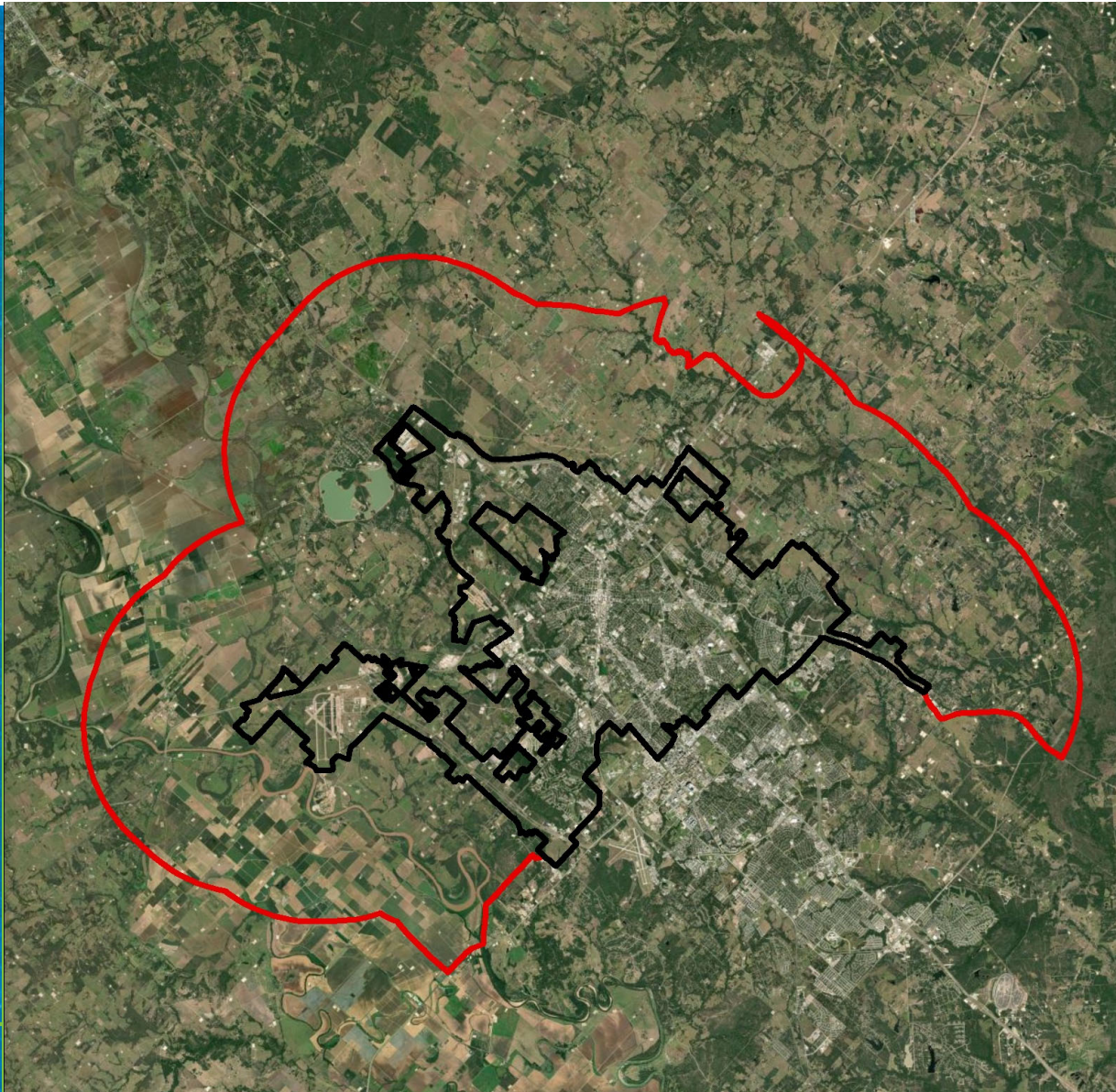


Population Growth in Bryan (WW growth)

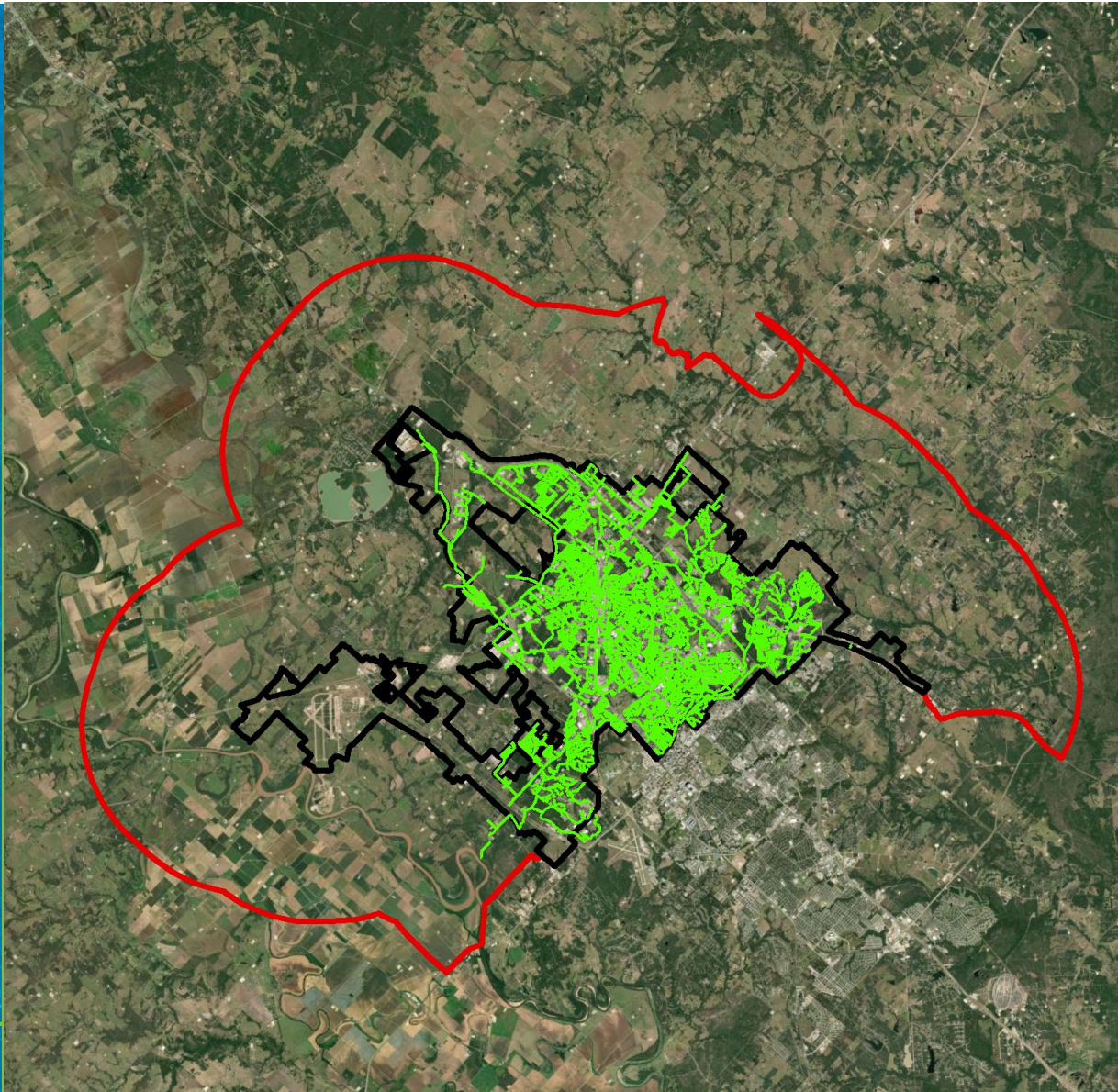
East Side Growth

Aging Infrastructure (Burton Creek)

Extraterritorial Jurisdiction

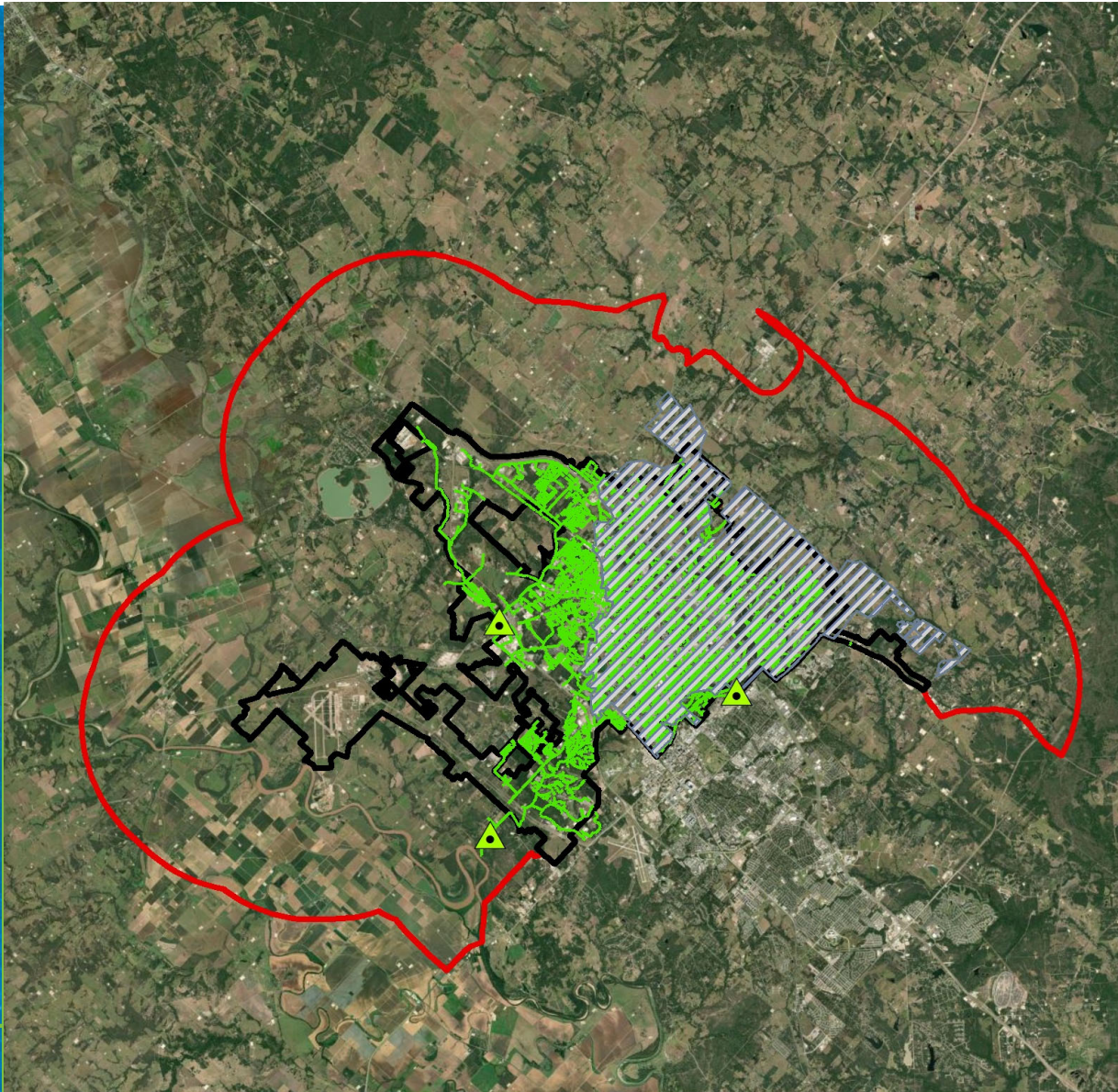







Existing WW Pipelines



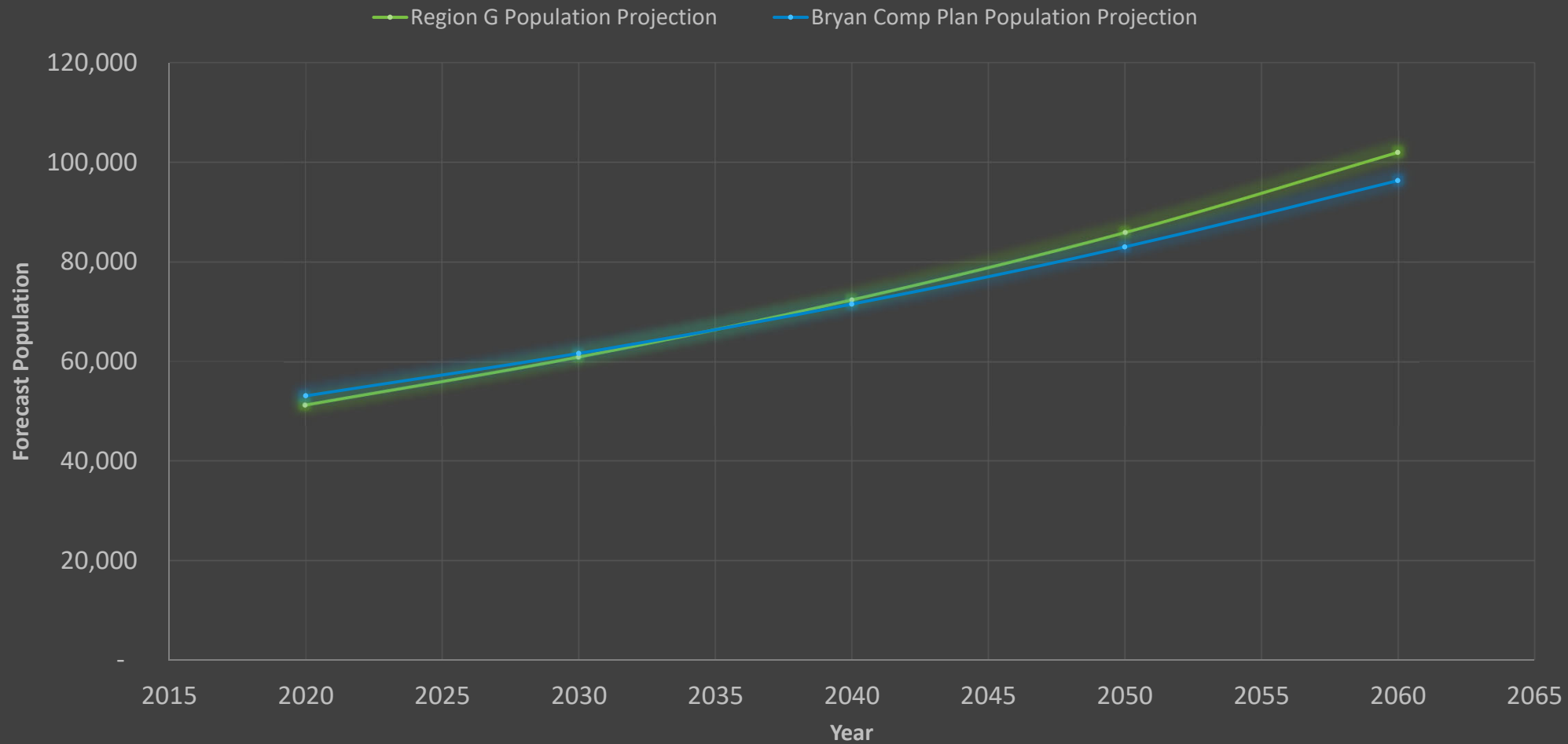
- Existing WW Pipelines
- City Limits
- ETJ

Brushy Creek Wastewater Service Area



-  Existing WWTP
-  Service Area
-  Existing WW Pipelines
-  City Limits
-  ETJ

Brushy Creek Service Area Population Forecast





Site Selection



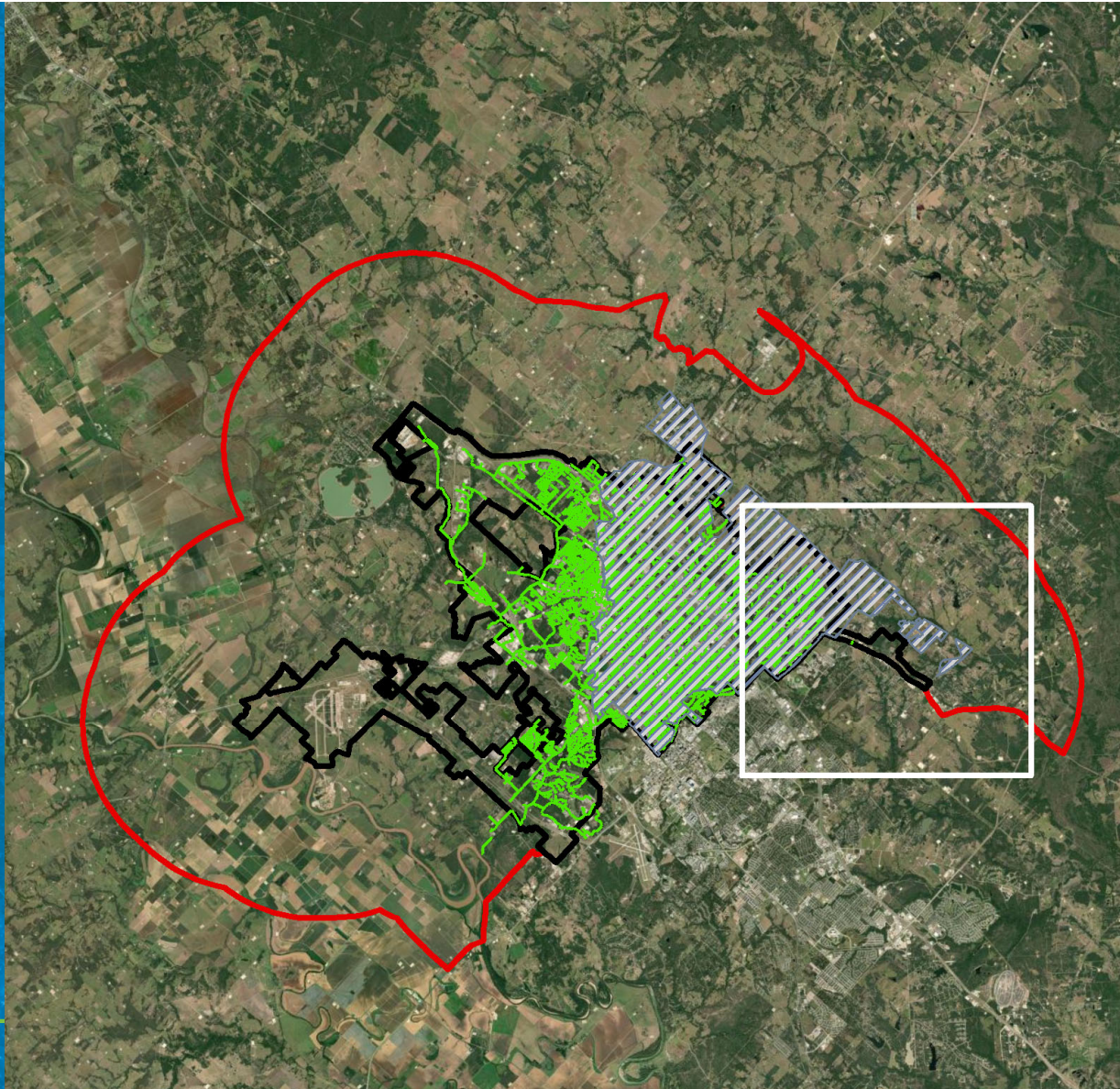
Accessibility to Future Flows





Receiving Water

Floodplain

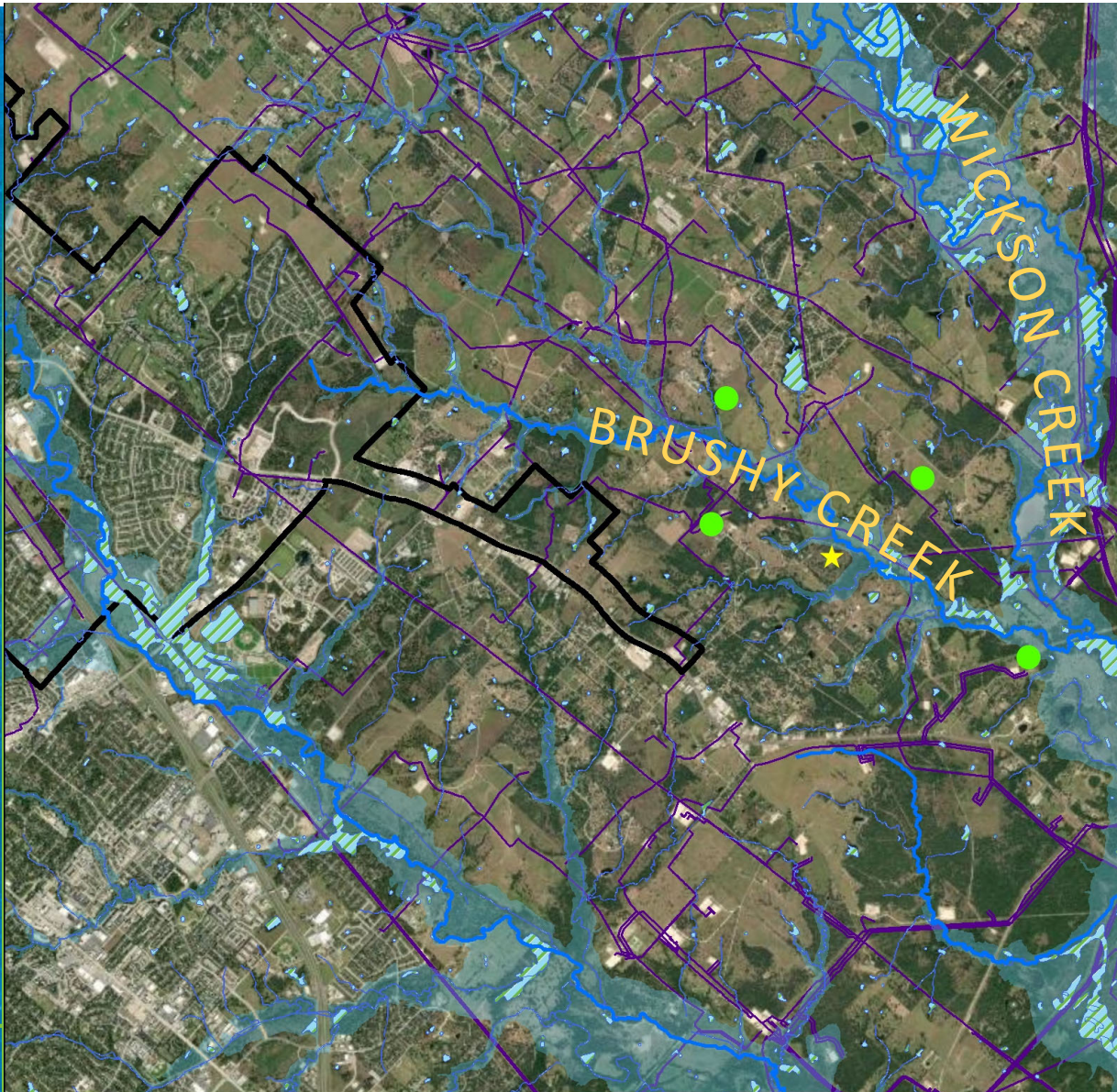
Environmental Issues

Study Area



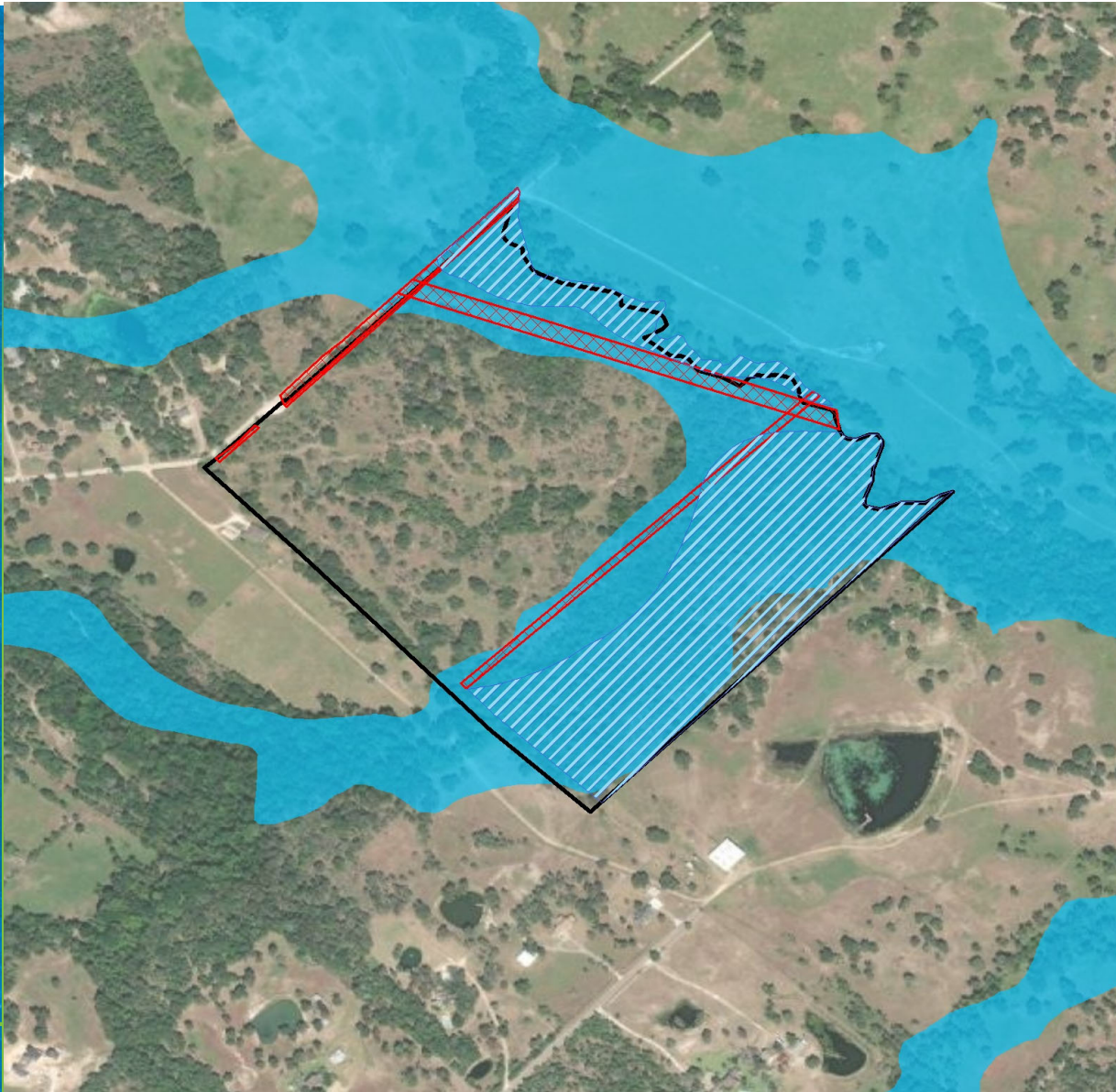
-  Service Area
-  Existing WW Pipelines
-  City Limits
-  ETJ





Potential Plant Sites



- ★ Brushy Creek WWTP
- Potential Sites
- Streamlines
- ▨ Wetlands
- ▭ City Limits
- 100-yr Floodplain
- Oil and Gas Pipelines

Site Constraints



-  Wetland
-  Utility Easement
-  Property Boundary
-  100-yr Floodplain (FEMA)
Detailed study underway

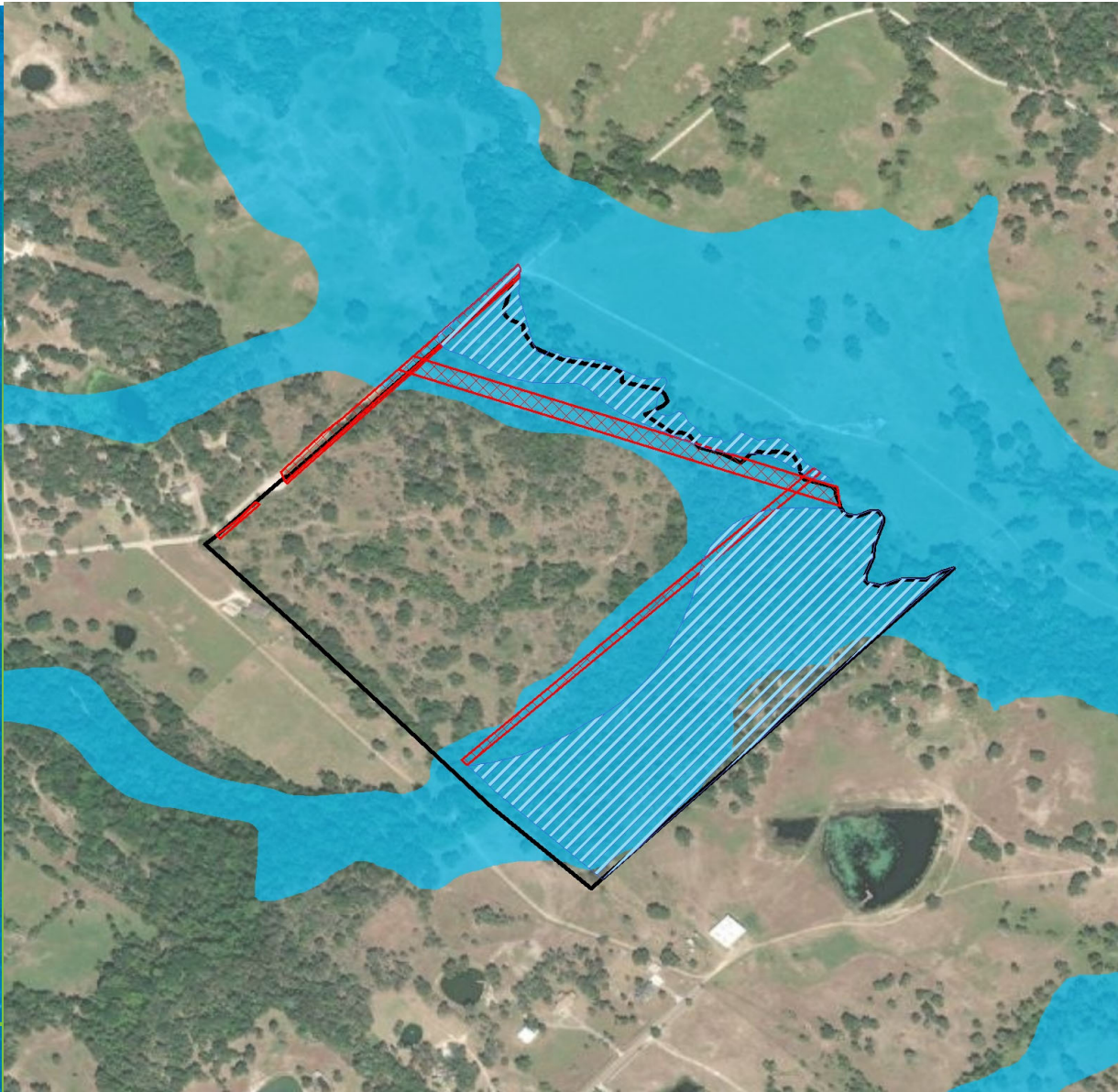


Site Development

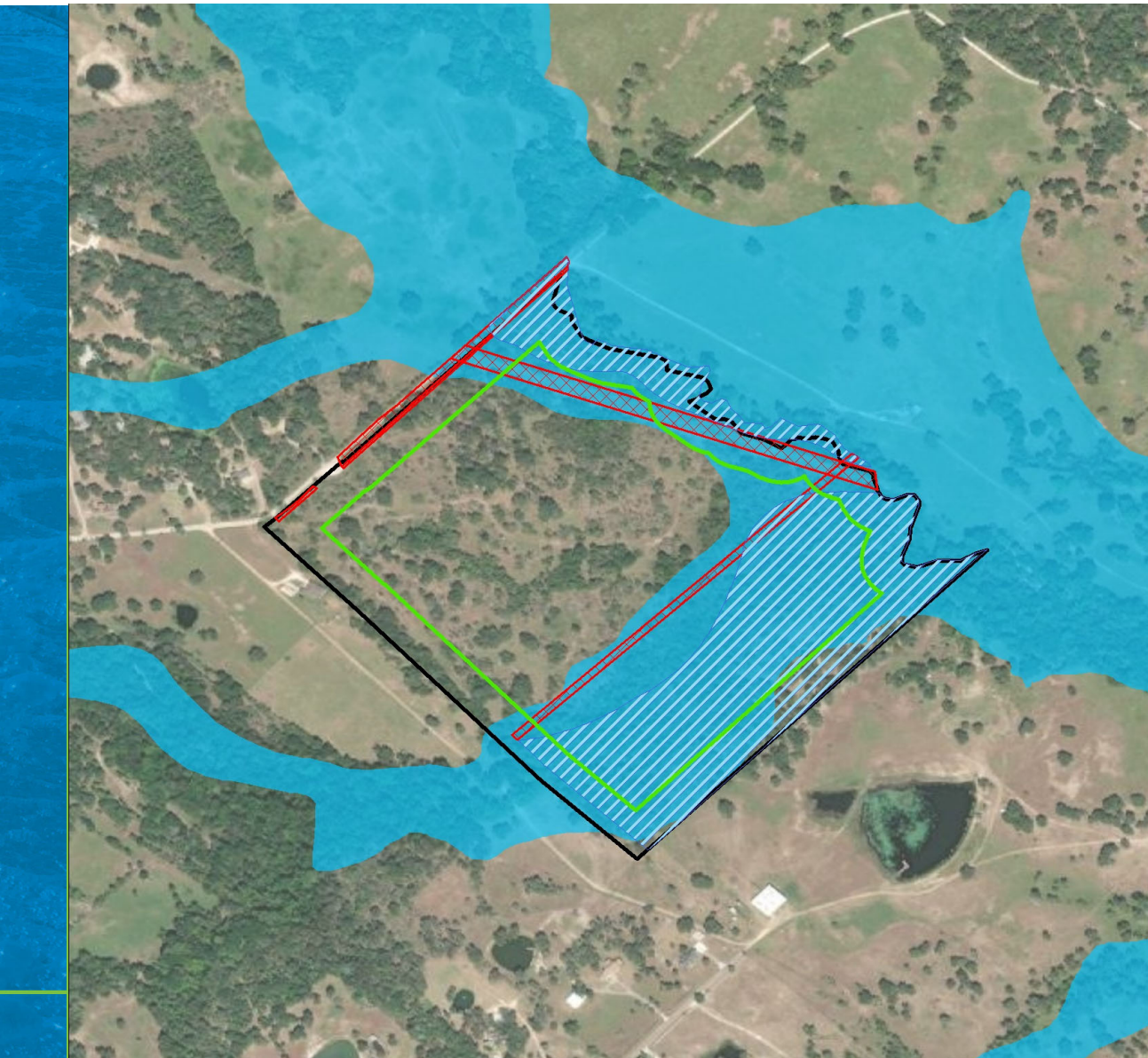


Buffer Zones
Site Layout

Site Layout



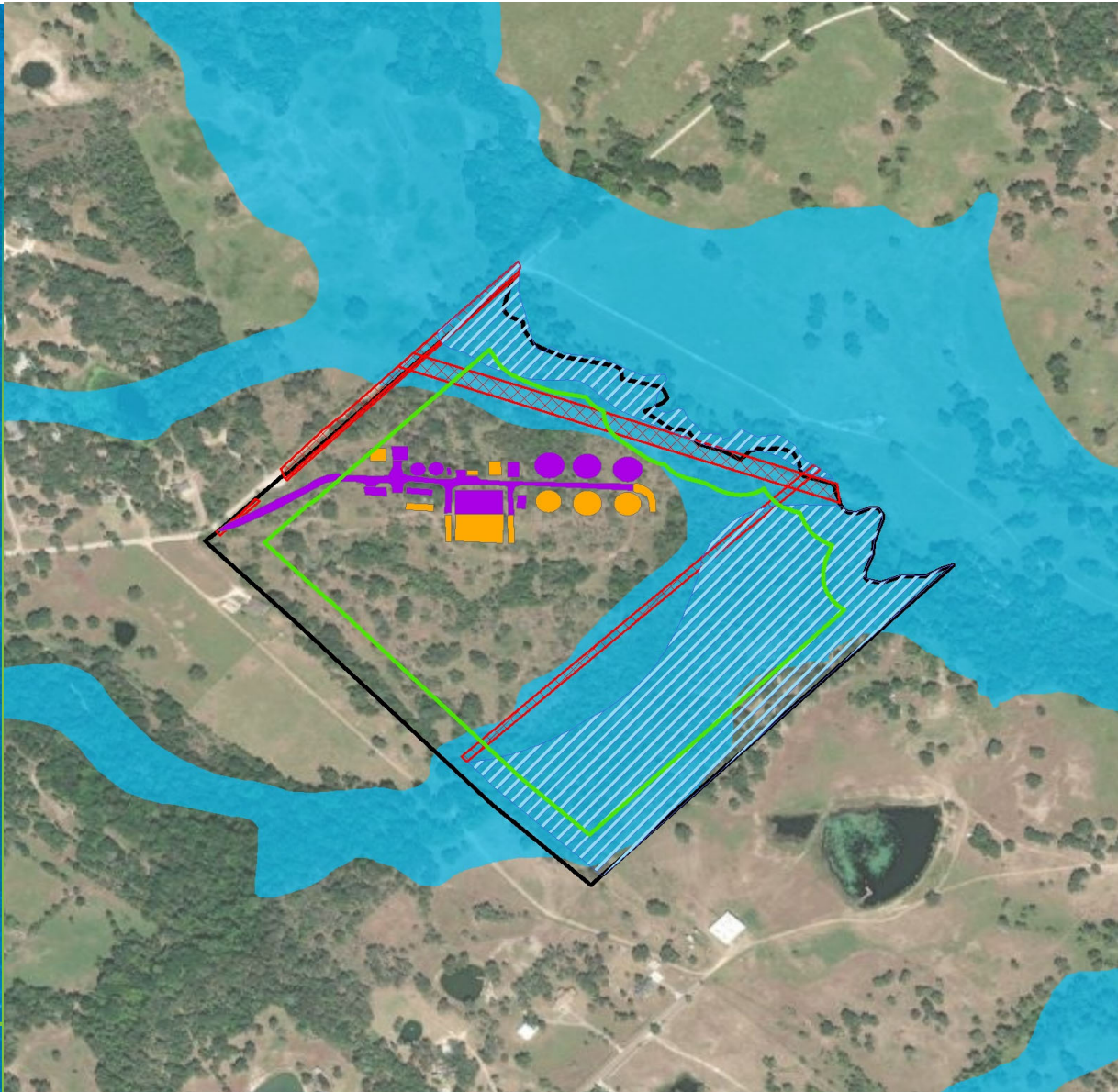
-  Wetland
-  Utility Easement
-  Property Boundary
-  100-yr Floodplain



Site Layout

-  150-ft Buffer Zone
-  Wetland
-  Utility Easement
-  Property Boundary
-  100-yr Floodplain

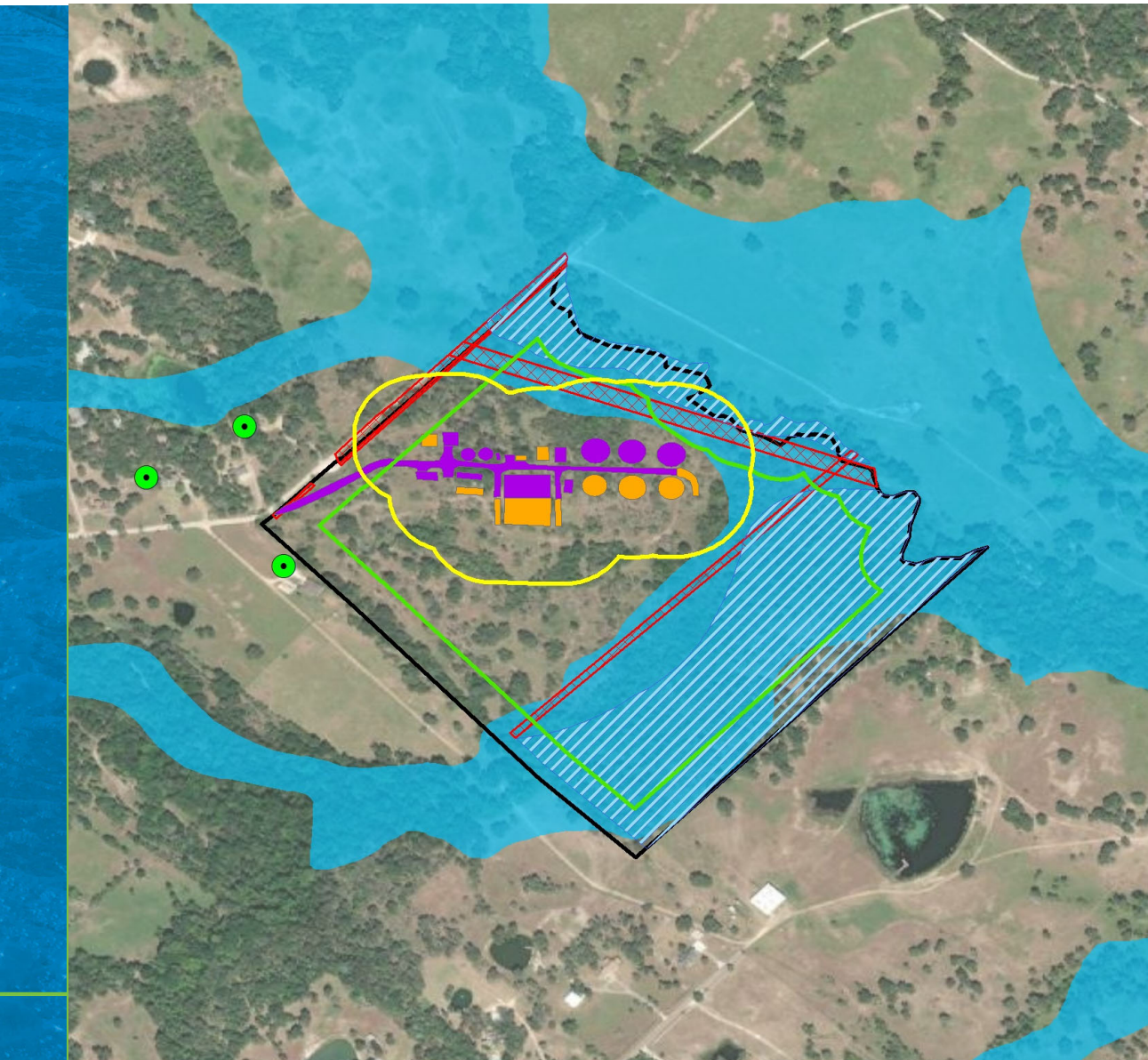
Site Layout





-  150-ft Buffer Zone
-  Wetland
-  Utility Easement
-  Property Boundary
-  100-yr Floodplain

Process Structures

-  Phase 1
-  Phase 2



Site Layout

-  Private Wells
-  250-ft Private Well Setback
-  150-ft Buffer Zone
-  Wetland
-  Utility Easement
-  Property Boundary
-  100-yr Floodplain
- Process Structures**
 -  Phase 1
 -  Phase 2



Addressing Neighbor's Concerns



- Buffer Zone
- Odor Control
- Light Control
- Flooding
- Traffic (Construction, Operation)

Buffer Zone

- Compliant with 150-ft setback requirements

Odor Control

- 150-ft buffer
- Process enhancements to control odor
 - Take air underneath cover and blow into aeration basin

Lighting

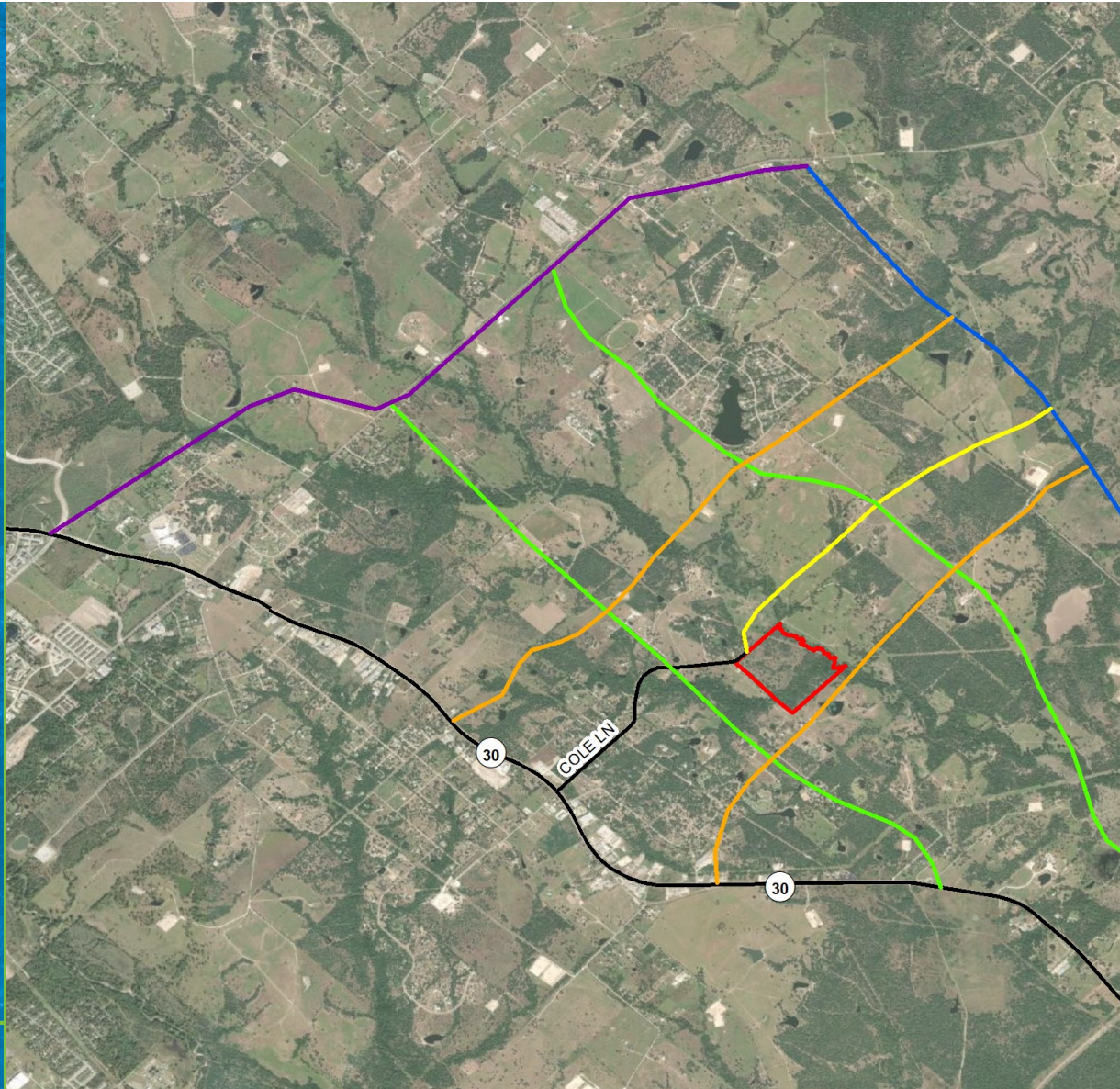
- 150-ft buffer
- Downcast lighting
- Most lighting is used only on an as-needed basis

Existing Access to Site



- Roadways
- Property Boundary

Proposed Access to Site



- Roadways
- Property Boundary
- Bryan Thoroughfare Plan**
- Freeway
- Super Arterial
- Major Arterial
- Minor Arterial
- Major Collector

Comparison of Creek and Plant Peak Flows

█ Flood Flows █ Peak Permitted Plant Flows

