Final Hydraulic and Hydrologic Modeling Report

(Volume II of III)

Langdale Project (FERC No. 2341)
and
Riverview Project (FERC No. 2350)

Prepared for:
Georgia Power Company

Prepared by:
Kleinschmidt Associates

August 2022

Kleinschmidt

APPENDIX B

ACRONYMS

COMMONLY USED ACRONYMS AND ABBREVIATIONS

#

1D	1-dimensional
2D	2-dimensional

A

ACF	Apalachicola-Chattahoochee-Flint (River Basin)
ADCNR	Alabama Department of Conservation and Natural Resources
ADEM	Alabama Department of Environmental Management
AHC	Alabama Historical Commission
APE	Area of Potential Effects

B

BOD	Biological Oxygen Demand

C

°C	Degrees Celsius or Centrigrade
CEII	Critical Energy Infrastructure Information
CFR	Code of Federal Regulation
cfs	Cubic Feet per Second
CPUE	Catch-per-unit-effort
CRK	Chattahoochee River Keeper
Crow Hop Dam	Crow Hop Diversion Dam
CWA	Clean Water Act

D

DEM	Digital Elevation Model
DO	Dissolved Oxygen
dsf	day-second-feet

E

EAWSFPD	East Alabama Water, Sewer, and Fire Protection District
EAP	Emergency Action Plan
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act

F

°F	Degrees Fahrenheit
ft	Feet
F&W	Fish and Wildlife
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FPA	Federal Power Act
fps	Feet per second

G

Georgia Power	Georgia Power Company
GADNR	Georgia Department of Natural Resources
EPD	Georgia Department of Natural Resources-Environmental Protection Division
HPD	Georgia Department of Community Affairs – Historic Preservation Division
WRD	Georgia Department of Natural Resources-Wildlife Resources Division
GEC	Geotechnical & Environmental Consultants
GIS	Geographic Information System
GPS	Global Positioning Systems

H

H&H	Hydraulic and Hydrologic
H&H Report	Hydraulic and Hydrologic Modeling Report
HEC	Hydrologic Engineering Center
HEC-DSSVue	HEC-Data Storage System and Viewer
HEC-FFA	HEC-Flood Frequency Analysis
HEC-RAS	HEC-River Analysis System
HEC-SSP	HEC-Statistical Software Package
HDSS	High Definition Stream Survey
hp	Horsepower

I

J

K

kV	Kilovolt
kva	Kilovolt-amp
kHz	Kilohertz

L

LIDAR	Light Detection and Ranging

M

m	Meter
m^3	Cubic Meter
M&I	Municipal and Industrial
mg/L	Milligrams per liter
ml	Milliliter
mgd	Million Gallons per Day
mi^2	Square Miles
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
msl	Mean Sea Level
MW	Megawatt
MWh	Megawatt Hour

N

NAVD	North American Vertical Datum
NEPA	National Environmental Policy Act
NGO	Non-governmental Organization
NHPA	National Historic Preservation Act
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NWI	National Wetlands Inventory

O

P

PDF	Portable Document Format
Projects	Langdale and Riverview Hydroelectric Projects
PWC	Personal Watercraft

PWS	Public Water Supply

Q

R

RM	River Mile

S

SEPA	Southeastern Power Administration
SHPO	State Historic Preservation Officer

T

TMDL	Total Maximum Daily Load
TNC	The Nature Conservancy

U

USGS	U.S. Geological Survey
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service

V

Valley WWTP	EAWSFPD's Lower Valley Wastewater Treatment Plant

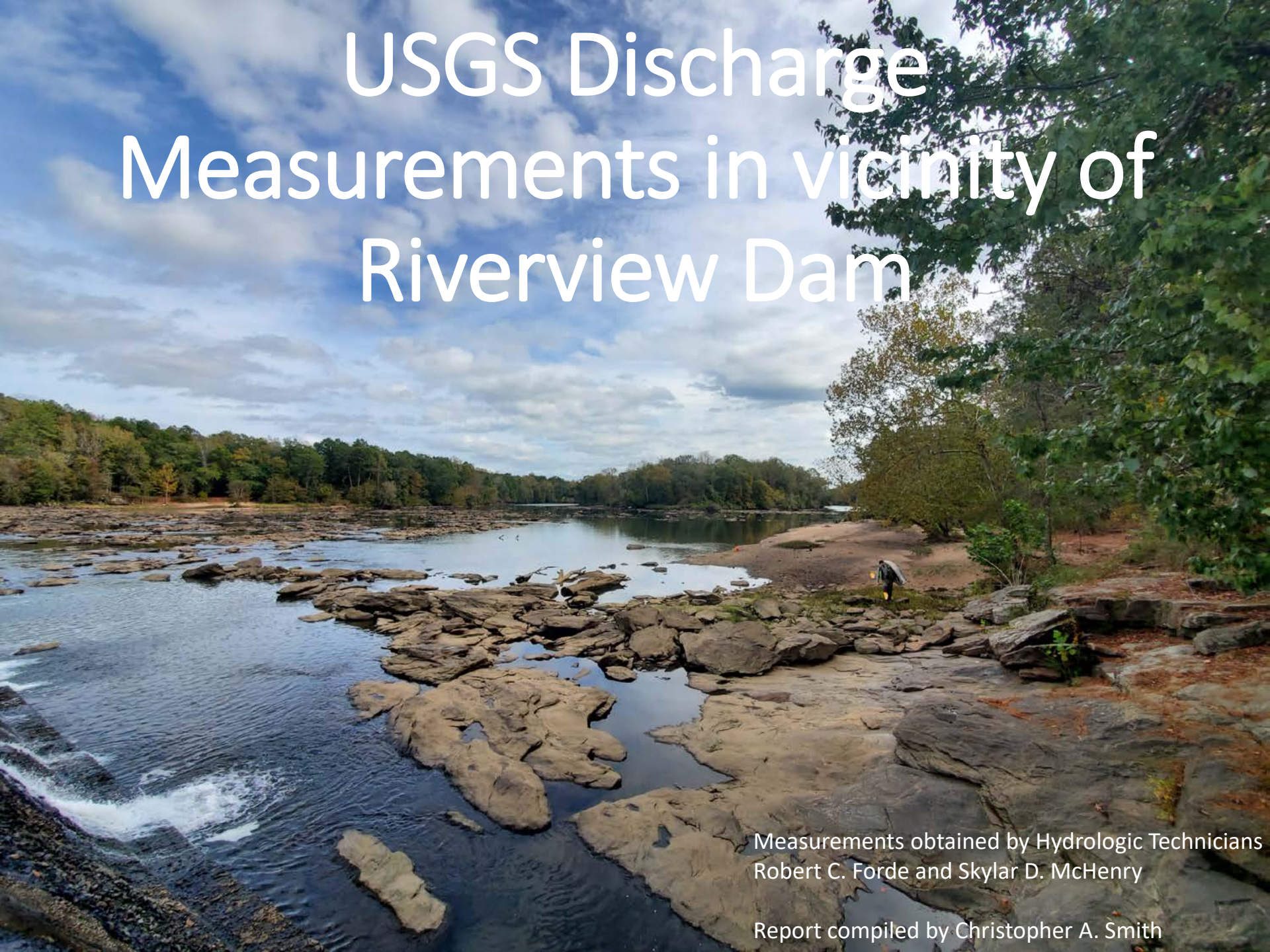
W

WP Min Flow	West Point Minimum Flow
WQC	Water Quality Certification

APPENDIX C

USGS FLOW MEASUREMENTS

USGS Discharge Measurements in vicinity of Riverview Dam

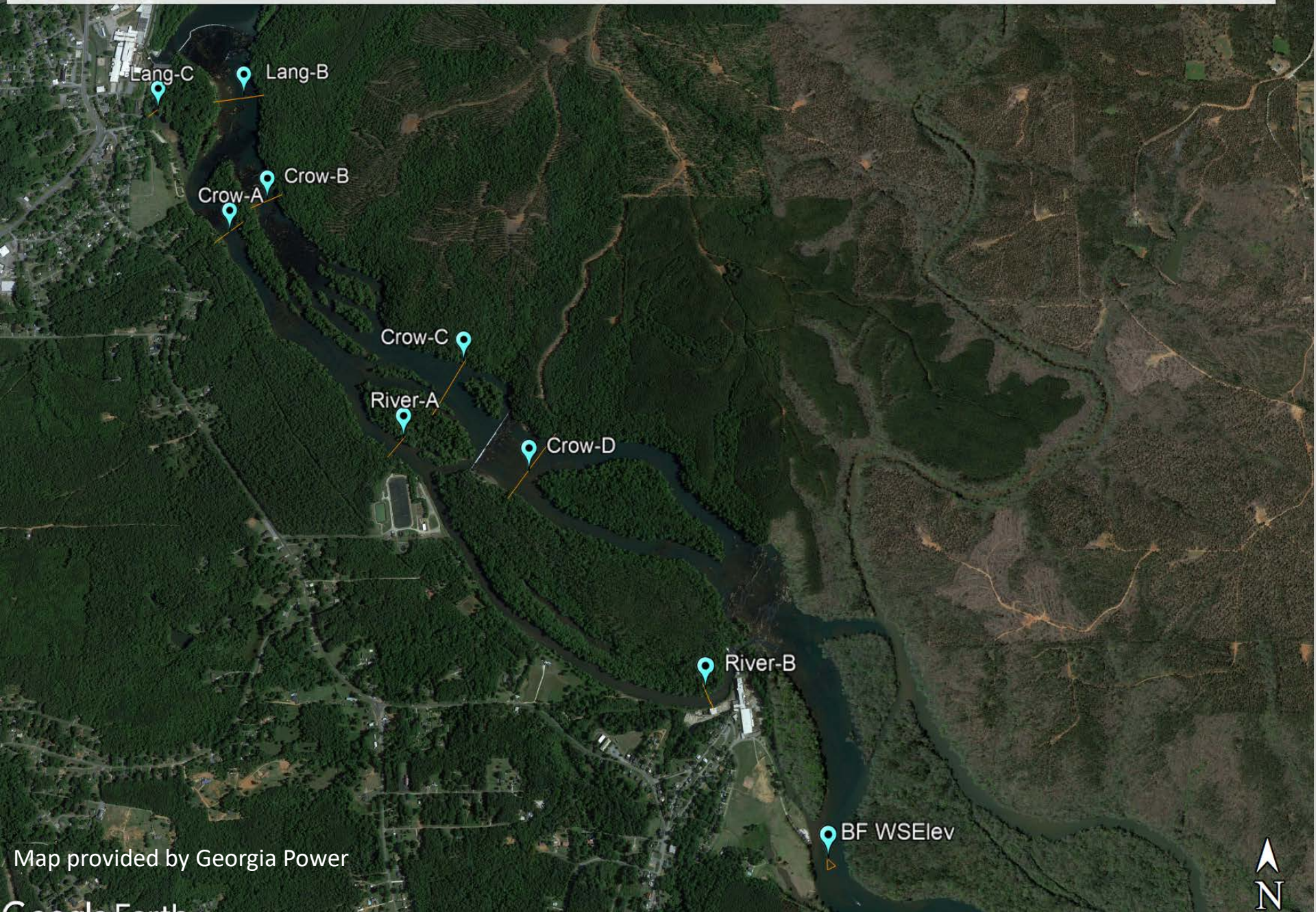


Measurements obtained by Hydrologic Technicians
Robert C. Forde and Skylar D. McHenry

Report compiled by Christopher A. Smith

Langdale and Riverview

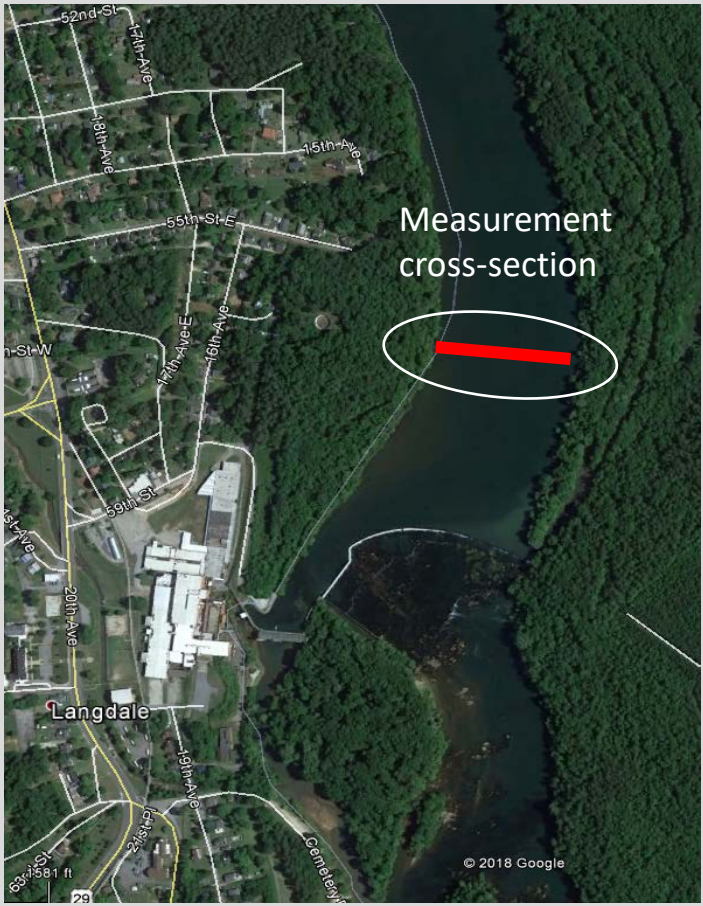
Flow measurements and water surface elevation measurements at all locations except BF WSElev, which is just a water surface elevation measurement.

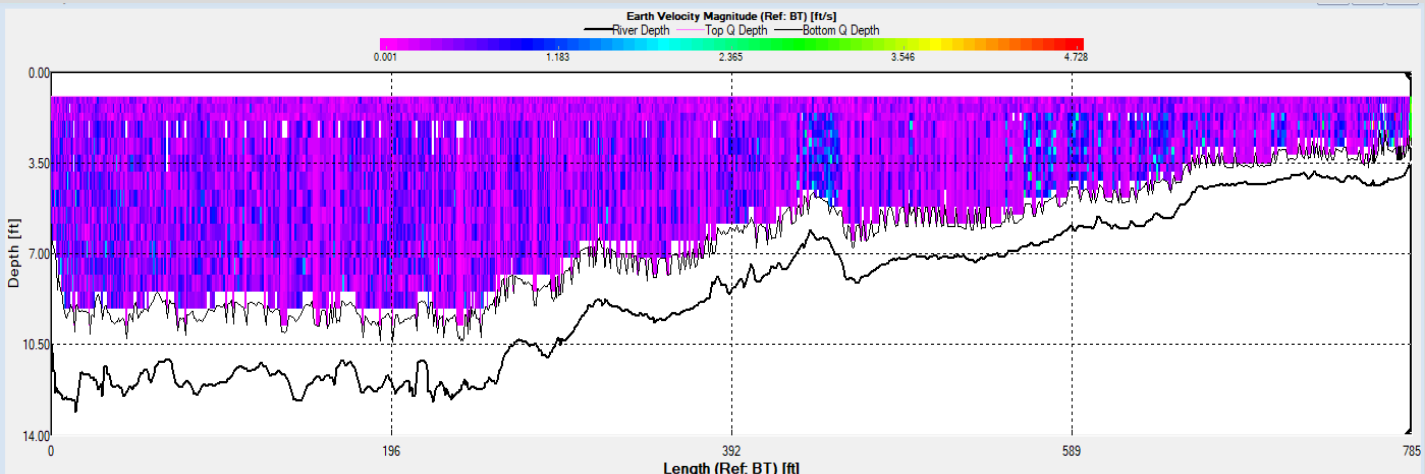


Map provided by Georgia Power

Discharge measurement above Langdale Dam

- Location of cross-section identified as **Lang-A** on map provided.
- Discharge measurement made above the influence of the dam on the cross section. This location chosen due to channel conditions.
- Velocity in this section was low but fairly uniform throughout the cross section.
- W/S = 550.4 feet. GPS accuracy of +/- 0.30 feet.



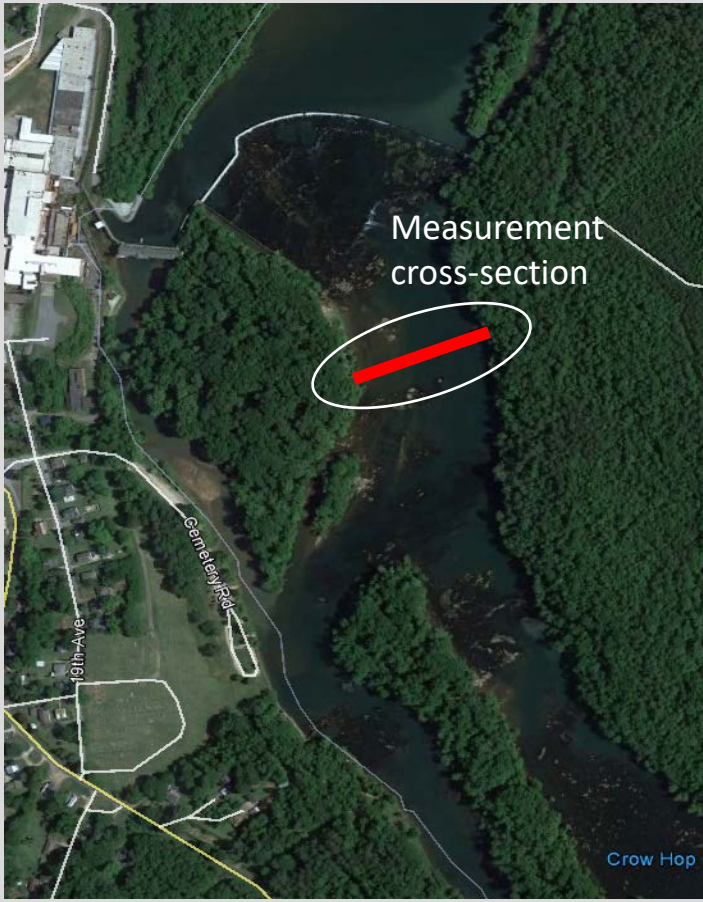


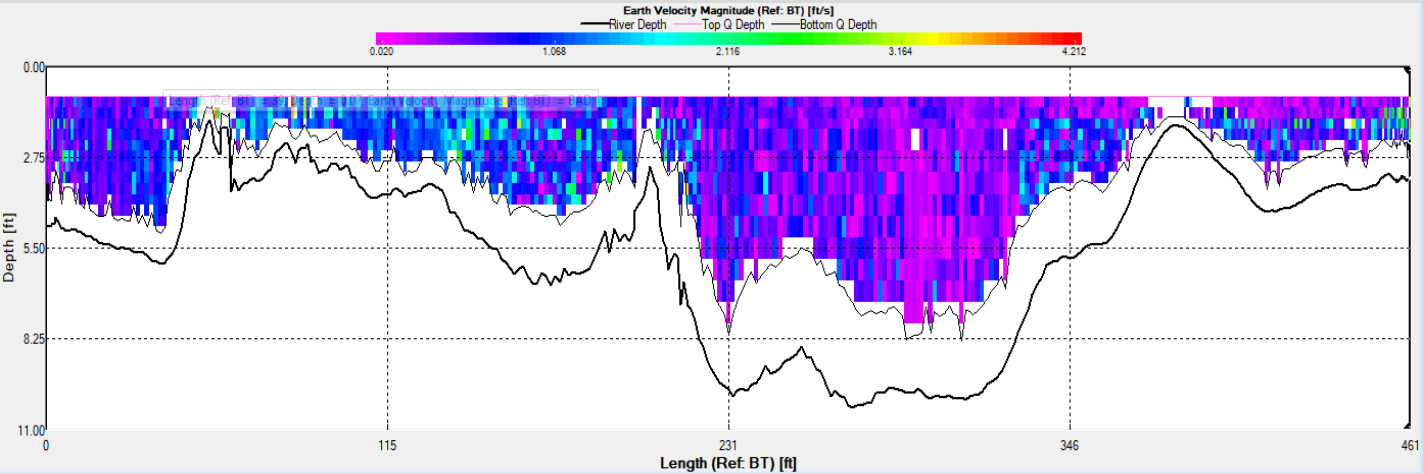
Channel Characteristics

- 800 feet wide
- 0.15 ft/s mean velocity
- 6,300 ft² area
- ***Total Q = 859 ft³/s***
- Sandy, rocky bottom

Discharge measurement below Langdale Dam

- Location of cross-section identified as **Lang-B** on map provided.
- Discharge measurement made below the influence of the dam on the cross section. This location is between two large shoals.
- Velocity in this section was low and not uniform throughout the majority of the cross section.
- W/S = 534.6 feet. GPS accuracy of +/- 0.30 feet.



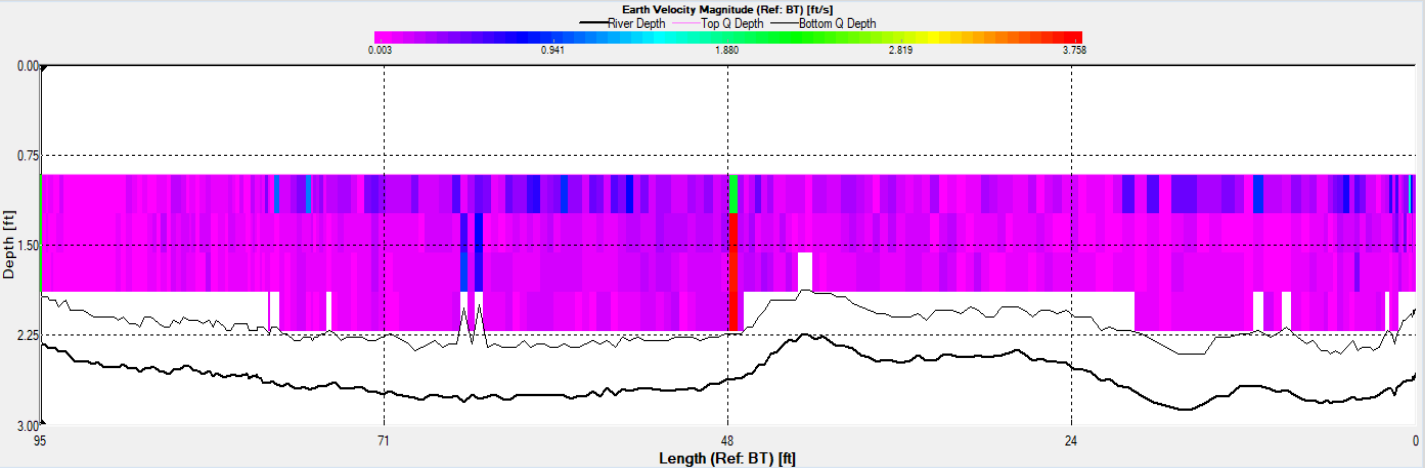


Channel Characteristics

- 610 feet wide
- 0.31 ft/s mean velocity
- 2,720 ft² area
- ***Total Q = 840 ft³/s***
- Sandy and rock boulder bottom

Discharge measurement below Langdale Dam

- Location of cross-section identified as **Lang-C** on map provided.
- Discharge measurement made below the influence of the dam on the cross section. This location is downstream of suggested location but provided best channel conditions for measurement.
- Velocity in this section was extremely low fairly uniform throughout the cross section.
- W/S = 534.6 feet. GPS accuracy of +/- 0.30 feet.

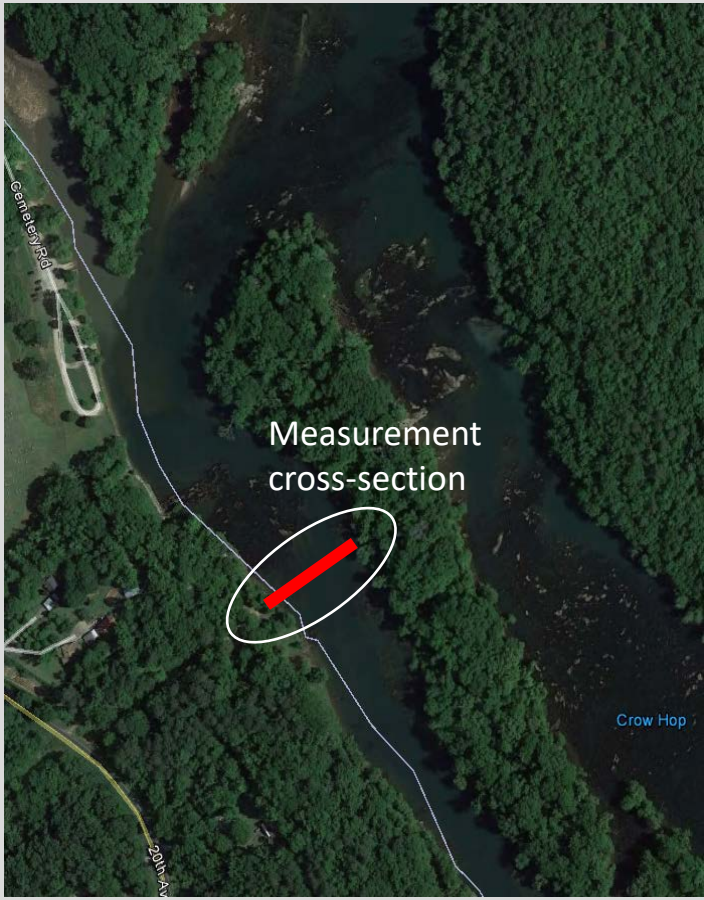


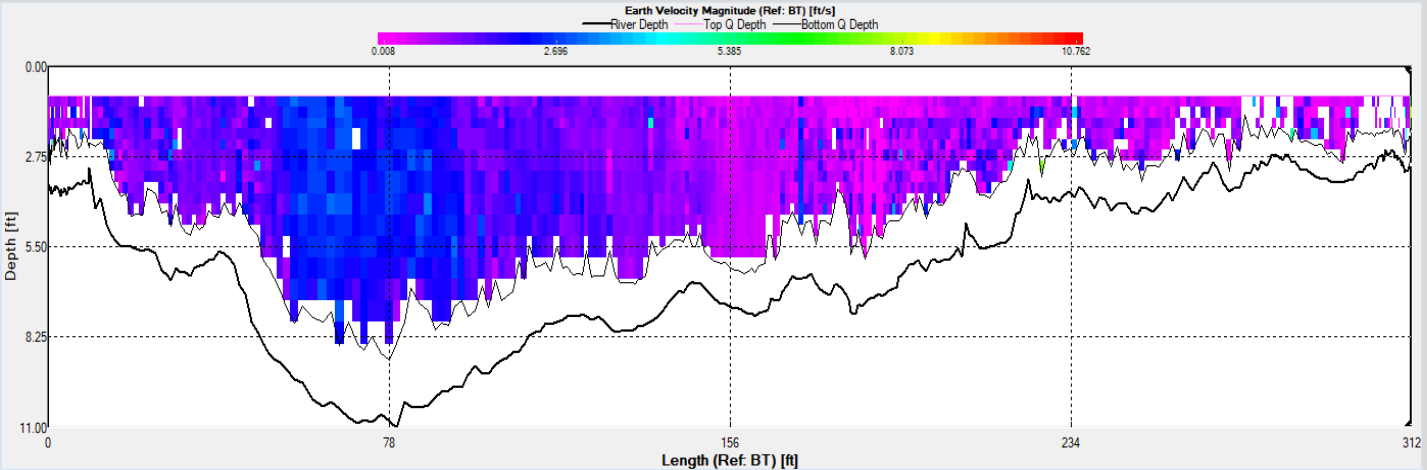
Channel Characteristics

- 126 feet wide
- 0.10 ft/s mean velocity
- 255 ft^2 area
- ***Total Q = 16 ft^3/s***
- Measurement quality is POOR.

Discharge measurement above Crow Hop Dam

- Location of cross-section identified as **Crow-A** on map provided.
- Discharge measurement location is at suggested location.
- Velocity in this section was fairly uniform throughout the cross section.
- Channel bottom is composed of sand and large boulders.
- W/S = 534.3 feet. GPS accuracy of +/- 0.30 feet.



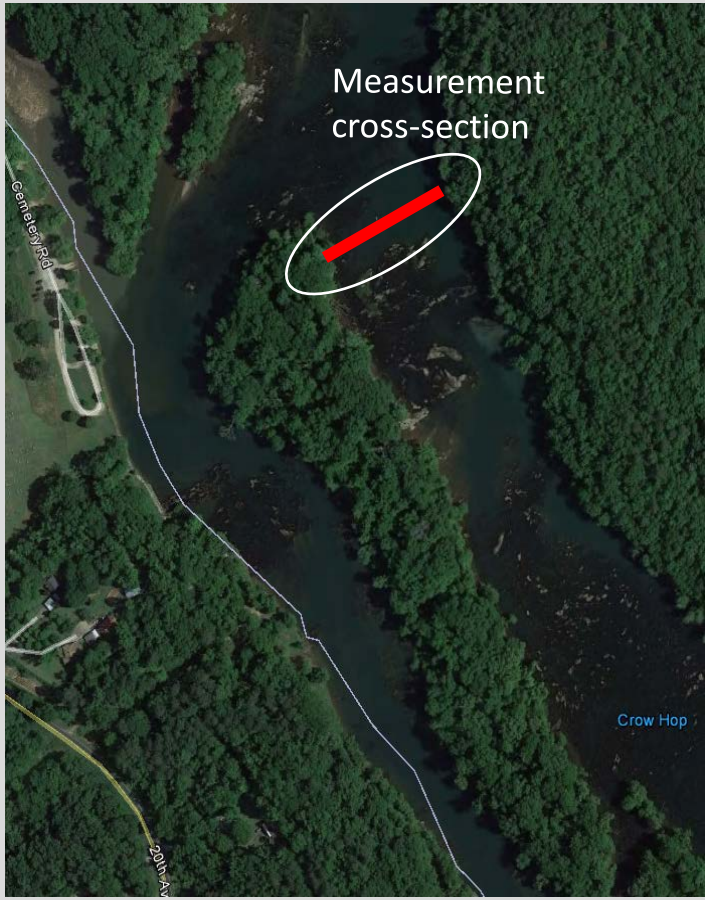


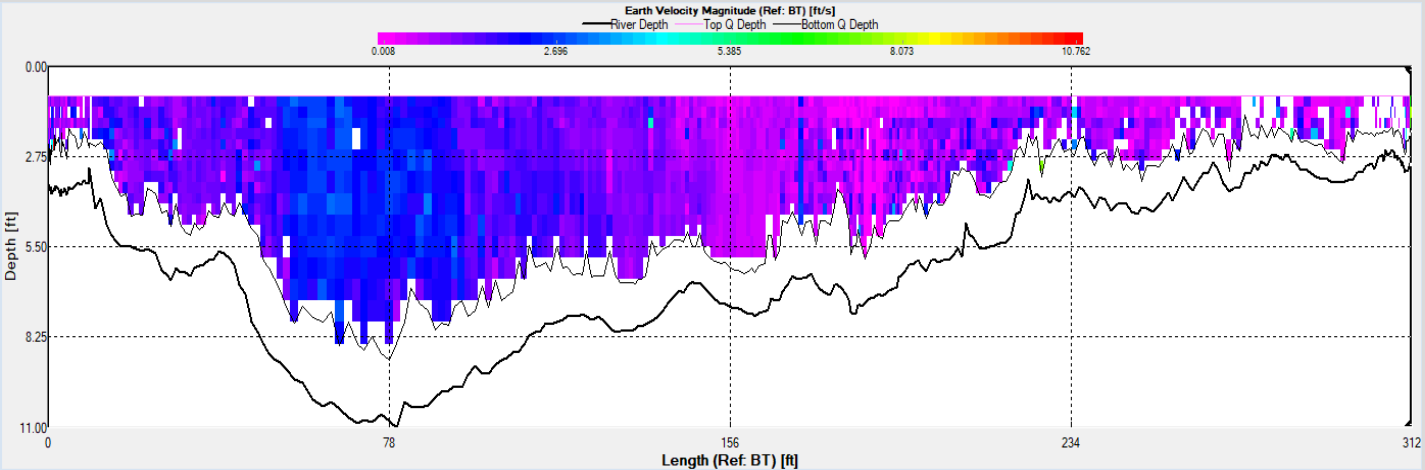
Channel Characteristics

- 322 feet wide
- 0.71 ft/s mean velocity
- 1,730 ft² area
- ***Total Q = 838 ft³/s***
- Measurement quality is POOR.

Discharge measurement above Crow Hop Dam

- Location of cross-section identified as **Crow-B** on map provided.
- Discharge measurement location is upstream of suggested location but provided best channel conditions for measurement.
- Velocity in this section was fairly uniform throughout the cross section.
- Channel bottom is composed of sand and large boulders.



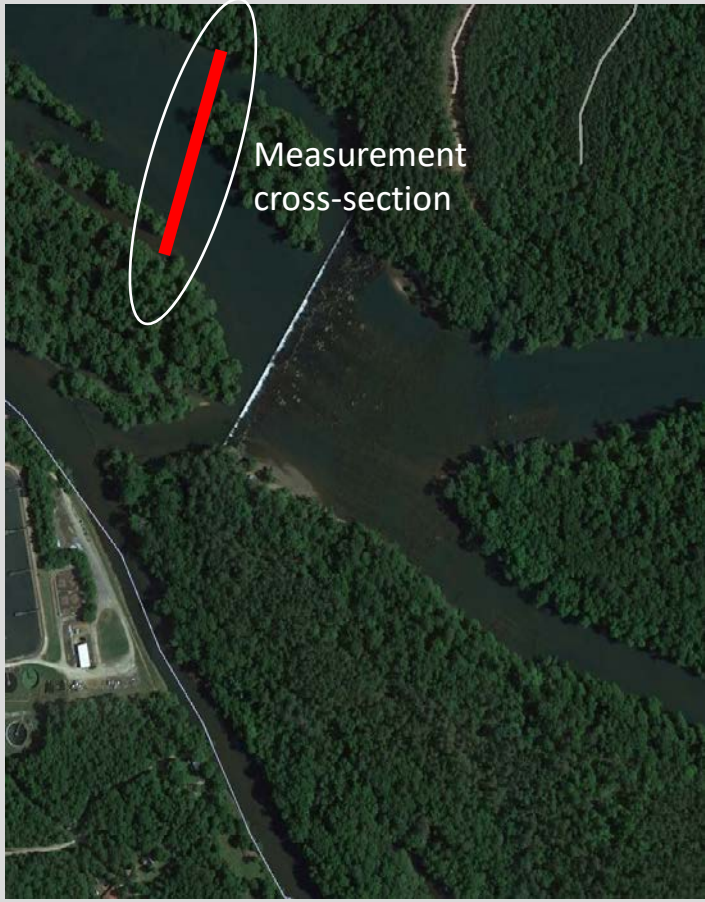


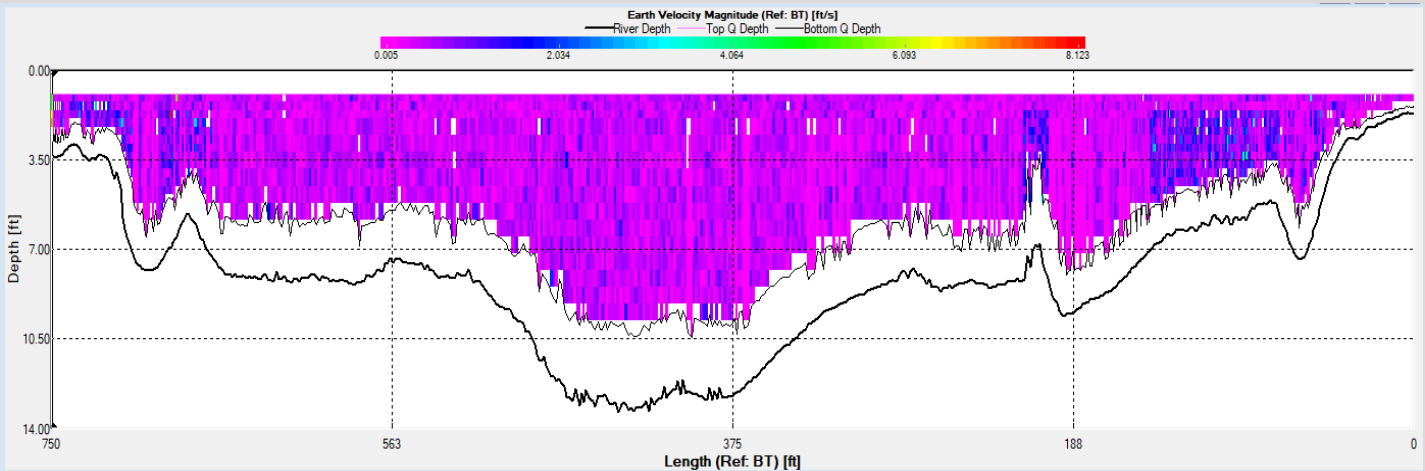
Channel Characteristics

- 353 feet wide
- 0.03 ft/s mean velocity
- 1,730 ft² area
- ***Total Q = 39 ft³/s***
- Measurement quality is POOR.

Discharge measurement above Crow Hop Dam

- Location of cross-section identified as **Crow-C** on map provided.
- Discharge measurement location is near suggested location.
- Velocity in this section was extremely sluggish but uniform throughout the cross section.
- Channel bottom is composed of sand.



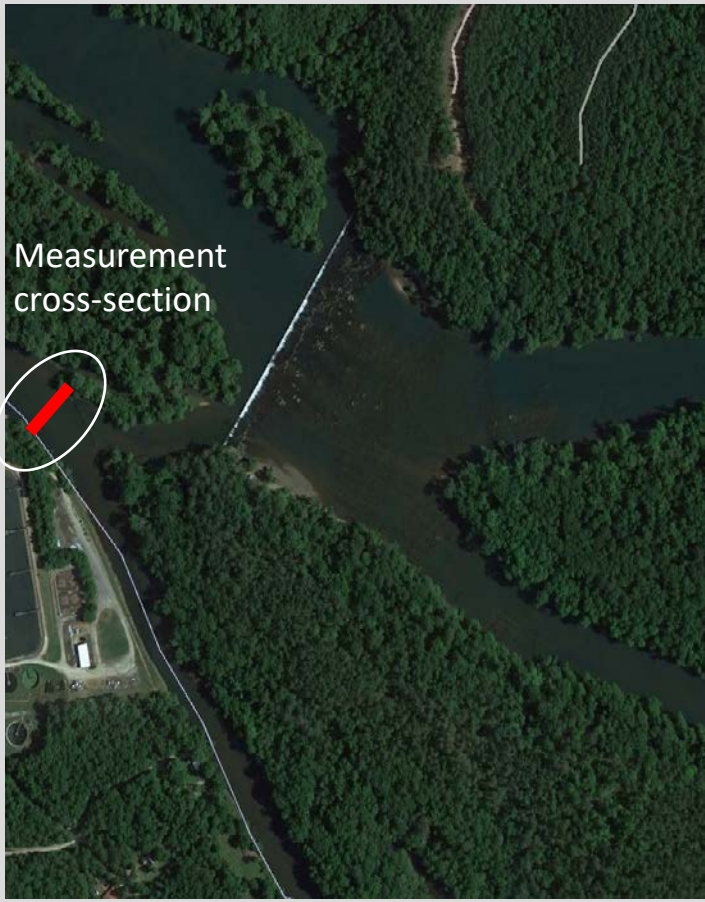


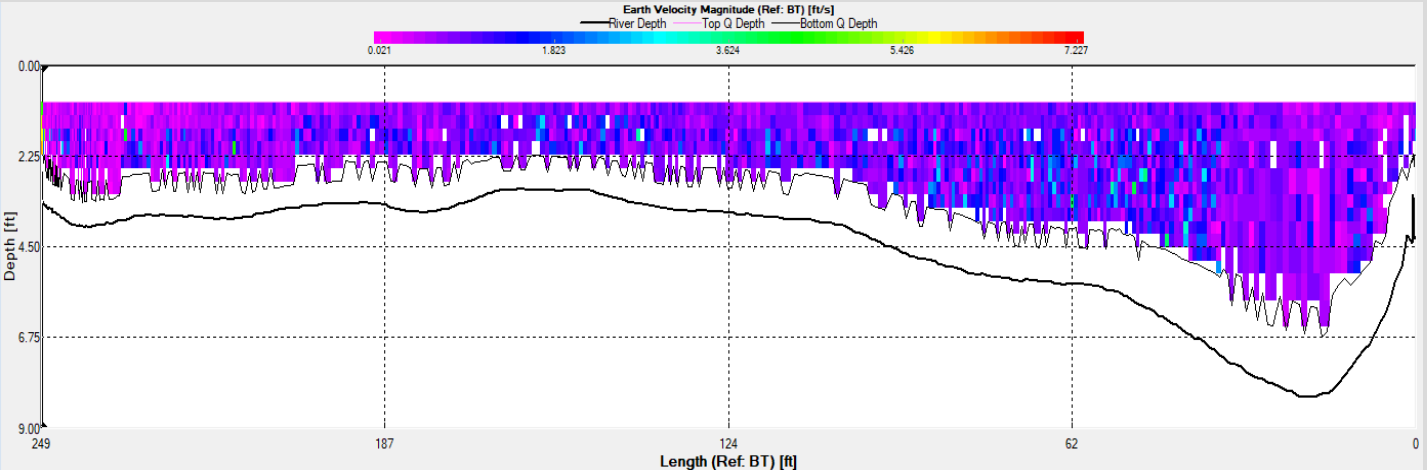
Channel Characteristics

- 808 feet wide
- 0.08 ft/s mean vel.
- 5,880 ft² area
- ***Total Q = 233 ft³/s***
- Measurement quality is extremely POOR.

Discharge measurement above Crow Hop Dam

- Location of cross-section identified as **River-A** on map provided.
- Discharge measurement location is near suggested location.
- Velocity in this section was good and fairly uniform throughout the cross section.
- Channel bottom is composed of sand and boulders. There was also some small amounts of scattered debris within the section.





Channel Characteristics

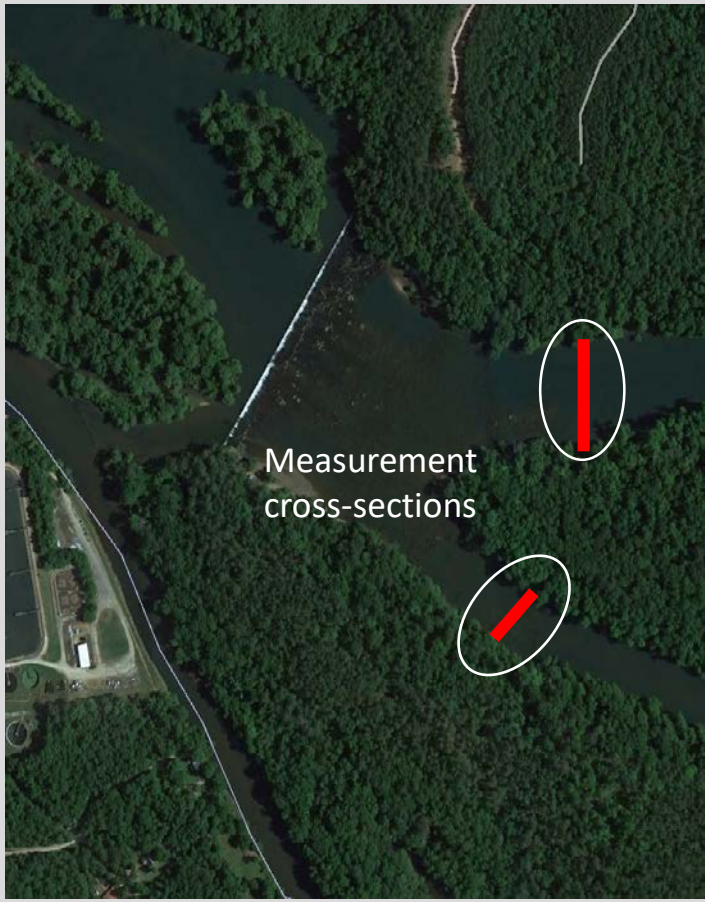
- 260 feet wide
- 0.56 ft/s mean vel.
- 1,090 ft² area
- ***Total Q = 612 ft³/s***
- Measurement quality is FAIR.

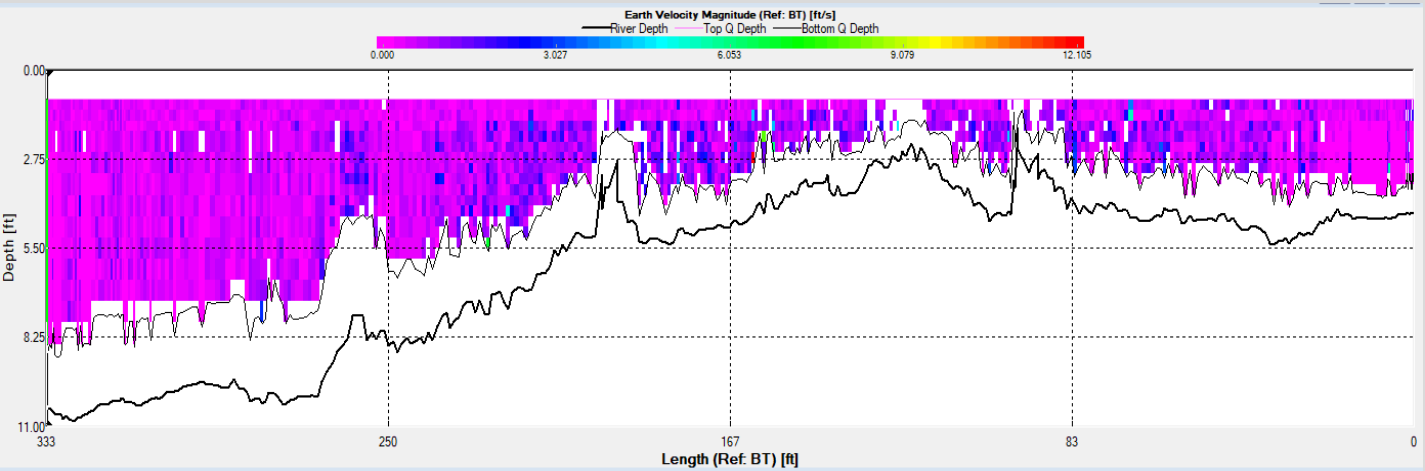
Discharge measurement below Crow Hop Dam

- Location of cross-section identified as **Crow-D** on map provided.

- Discharge measurement location is downstream of suggested section. River divides into two channels upstream. Cross-section included both channels. Channel characteristics listed are sum of two channels.

- Numerous sections were attempted as it was difficult to obtain a measurement in the right branch of the divided channel. The total flow for this branch measured 71 ft^3/s. Based on the observations of the Technicians this is likely too much flow.



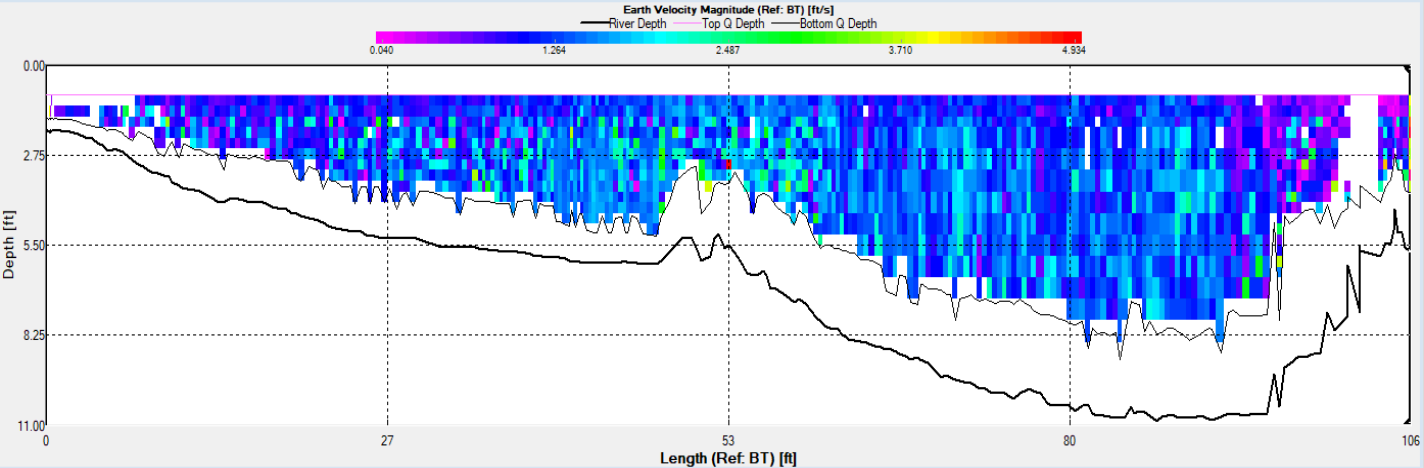


Channel Characteristics

- 635 feet wide
- 0.08 ft/s mean vel.
- 2,680 ft^2 area
- ***Total Q = 189 ft^3/s***
- Measurement quality is extremely POOR.

Discharge measurement above Riverview Dam

- Location of cross-section identified as **River-B** on map provided.
- Discharge measurement location is near suggested location.
- Velocity in this section was good and fairly uniform throughout the cross section.
- Channel bottom is composed of sand. There was some small amounts of scattered debris near the right bank.
- W/S = 533.6 feet. GPS accuracy of +/- 0.30 feet.



Channel Characteristics

- 160 feet wide
- 1.13 ft/s mean vel.
- 735 ft² area
- ***Total Q = 717 ft³/s***
- Measurement quality is GOOD.

Water-level measurement below Riverview Dam

- Location of cross-section identified as **BF-WSElev** on map provided.
- No discharge measurement was obtained at this location.
- W/S = 515.2 feet. GPS accuracy of +/- 0.30 feet.

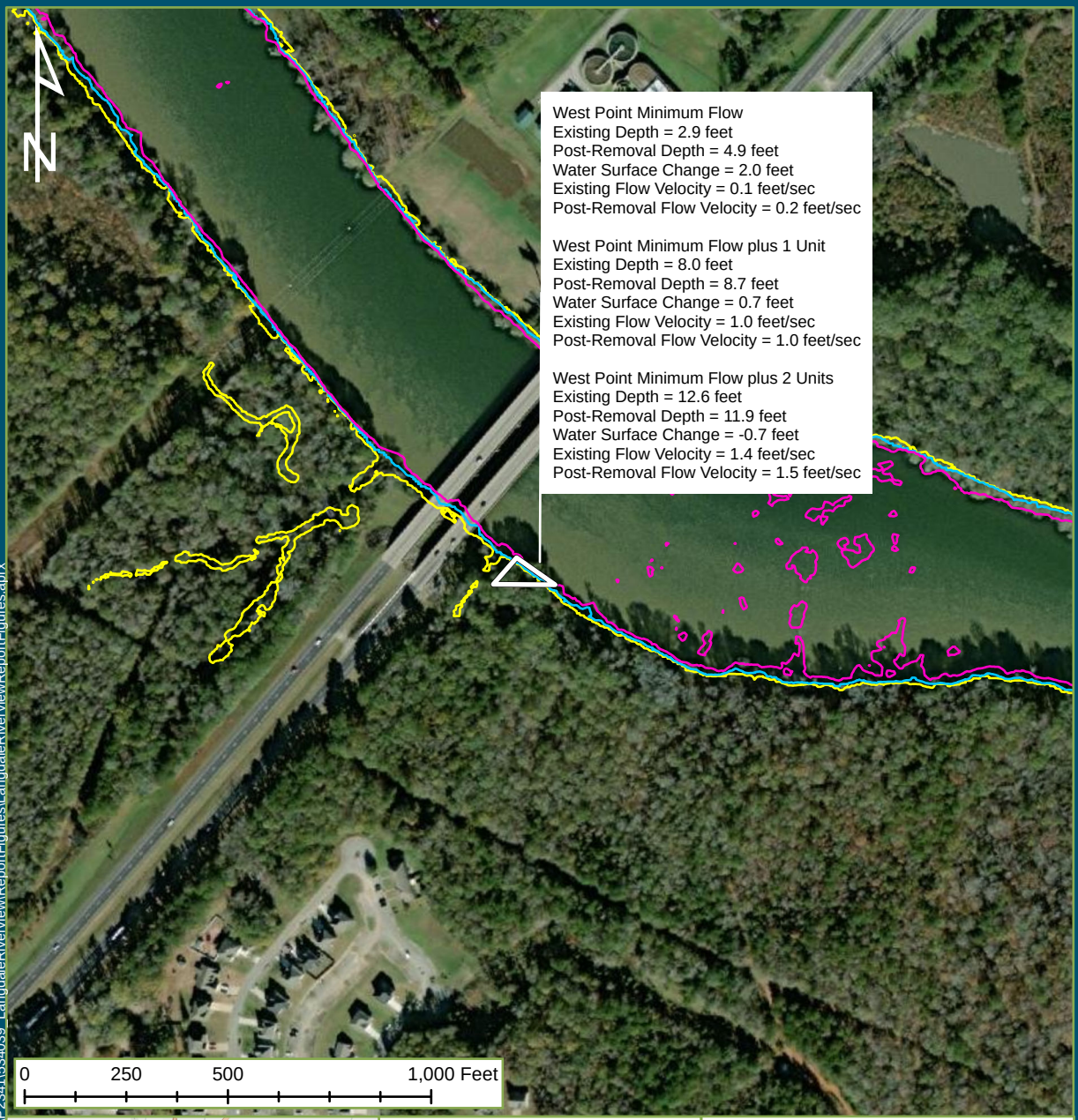
General Observations

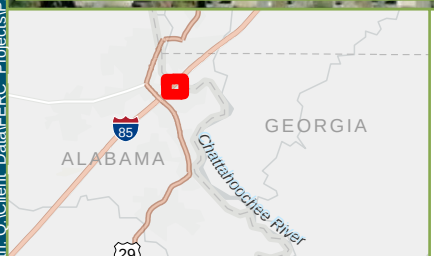
- The USGS crew is thankful for the opportunity to explore the area requested by Georgia Power.
- Obtaining discharge measurements near the three dams is extremely challenging. The USGS crew spent considerable time scouting measurement sections. The area below Crow Hop in the natural river channel is particularly difficult and it was necessary to split the measurement into two channels, as noted.
- Due to the channel conditions several of the measurements were rated as POOR by the USGS Technicians. This designation denotes the quality of the measurement and is an indication of the channel conditions and/or available cross-sections. This is not a qualitative assessment the work of the Technicians. However measurements rated POOR should be considered +/- 10% of the measured discharge.
- The water surface elevations were acquired using a GPS and the eGPS Real-time network (RTN). This network adjusts the GPS elevation data in real time. This network was used in the interest of celerity as releases from West Point Dam were imminent. Elevations obtained using this network should be considered USGS Level III survey and are considered within +/- 0.30 feet. Heavy tree cover affected most GPS observations and degraded the quality of the GPS data.

APPENDIX D

PROPERTY OWNERS PARCEL MAPS

Parcel 001





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

Drawn By:	Date Drawn:	Checked By:	Date Checked:
ADY	05-20-2022	KPN	05-20-2022

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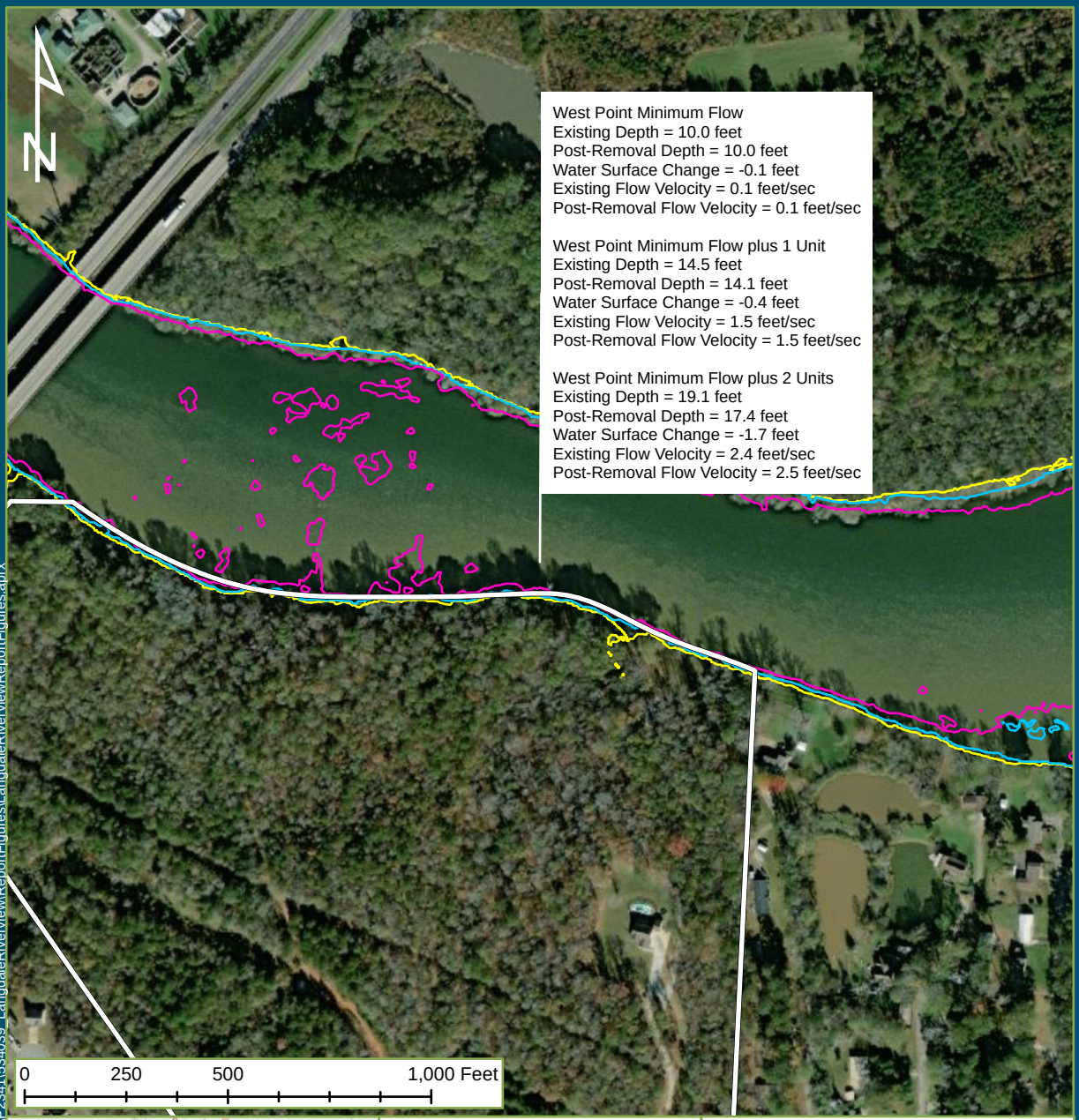

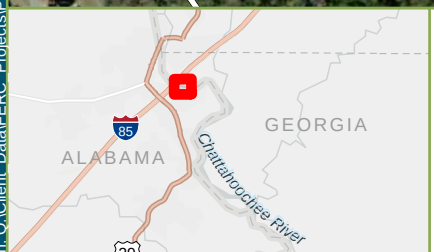

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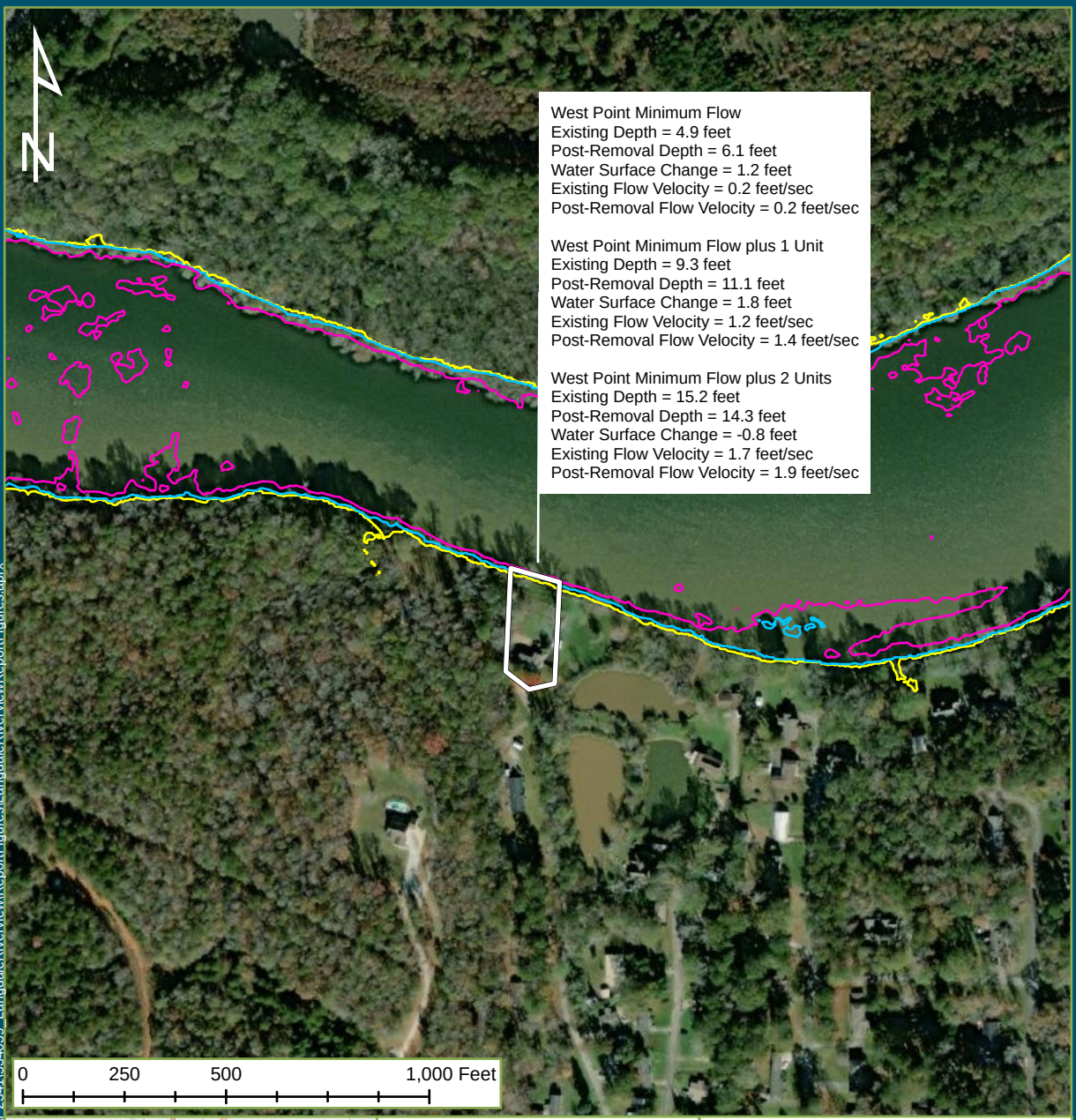

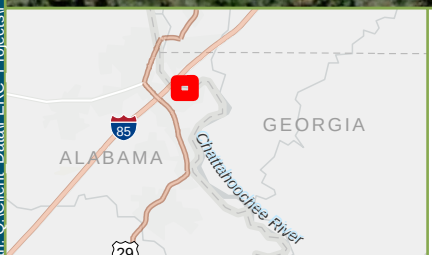

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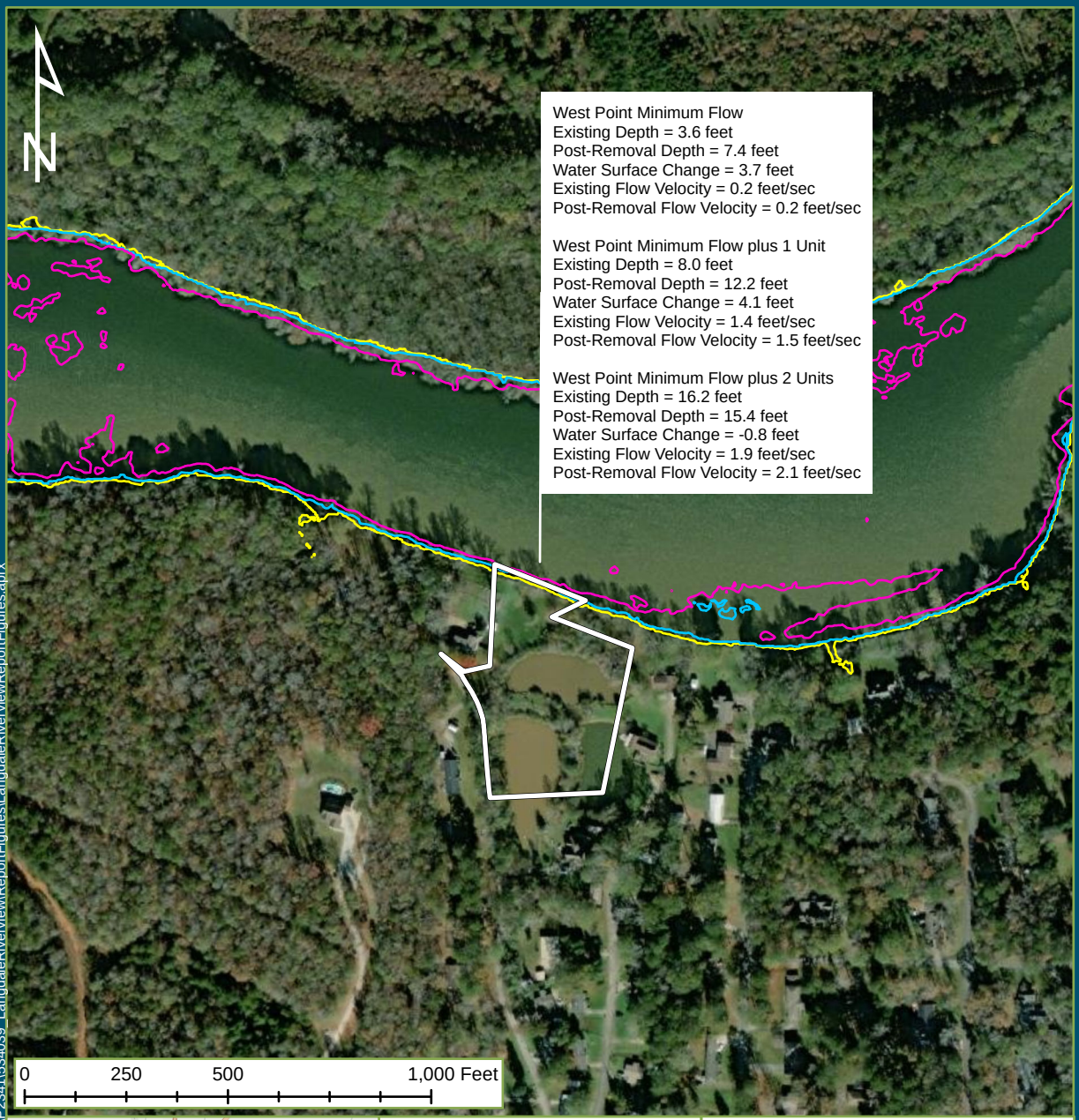

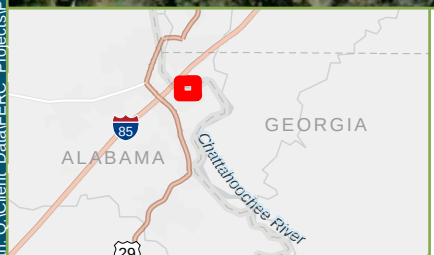

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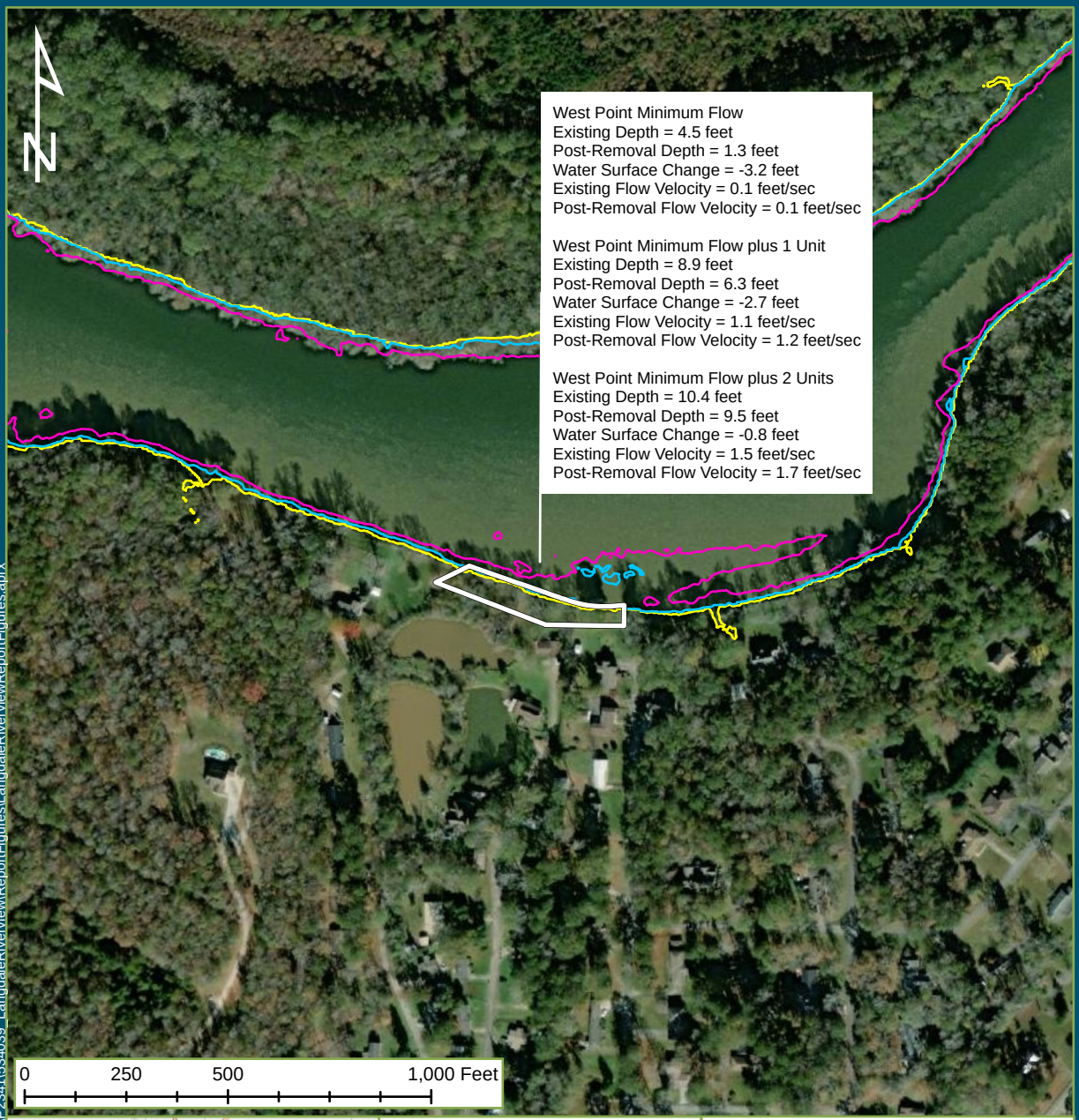

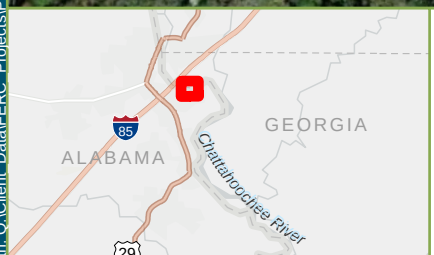

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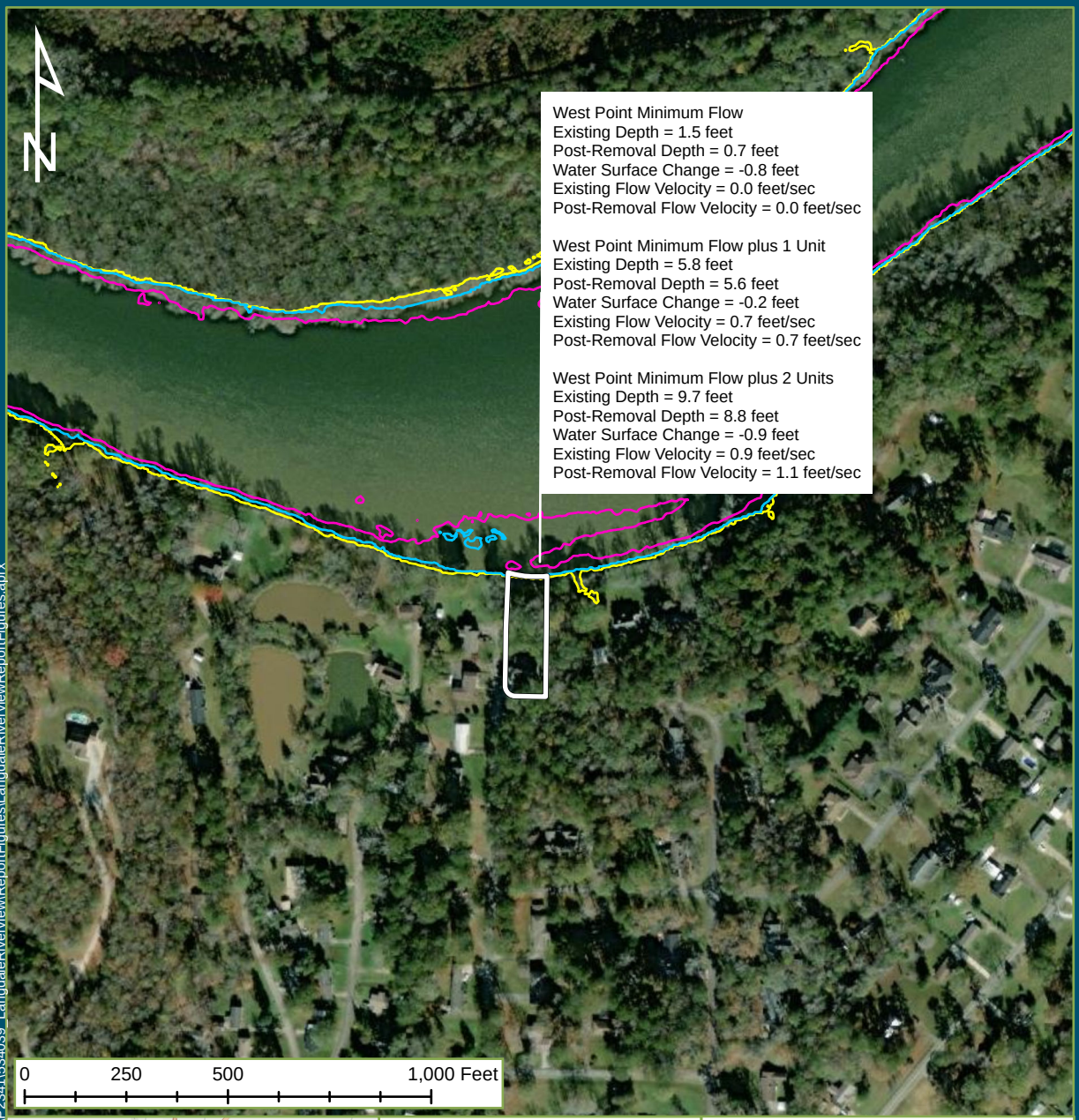
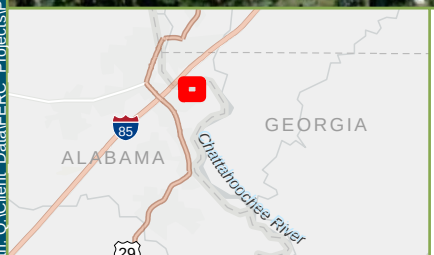
Parcel 006





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

Drawn By:	Date Drawn:	Checked By:	Date Checked:
ADY	05-20-2022	KPN	05-20-2022

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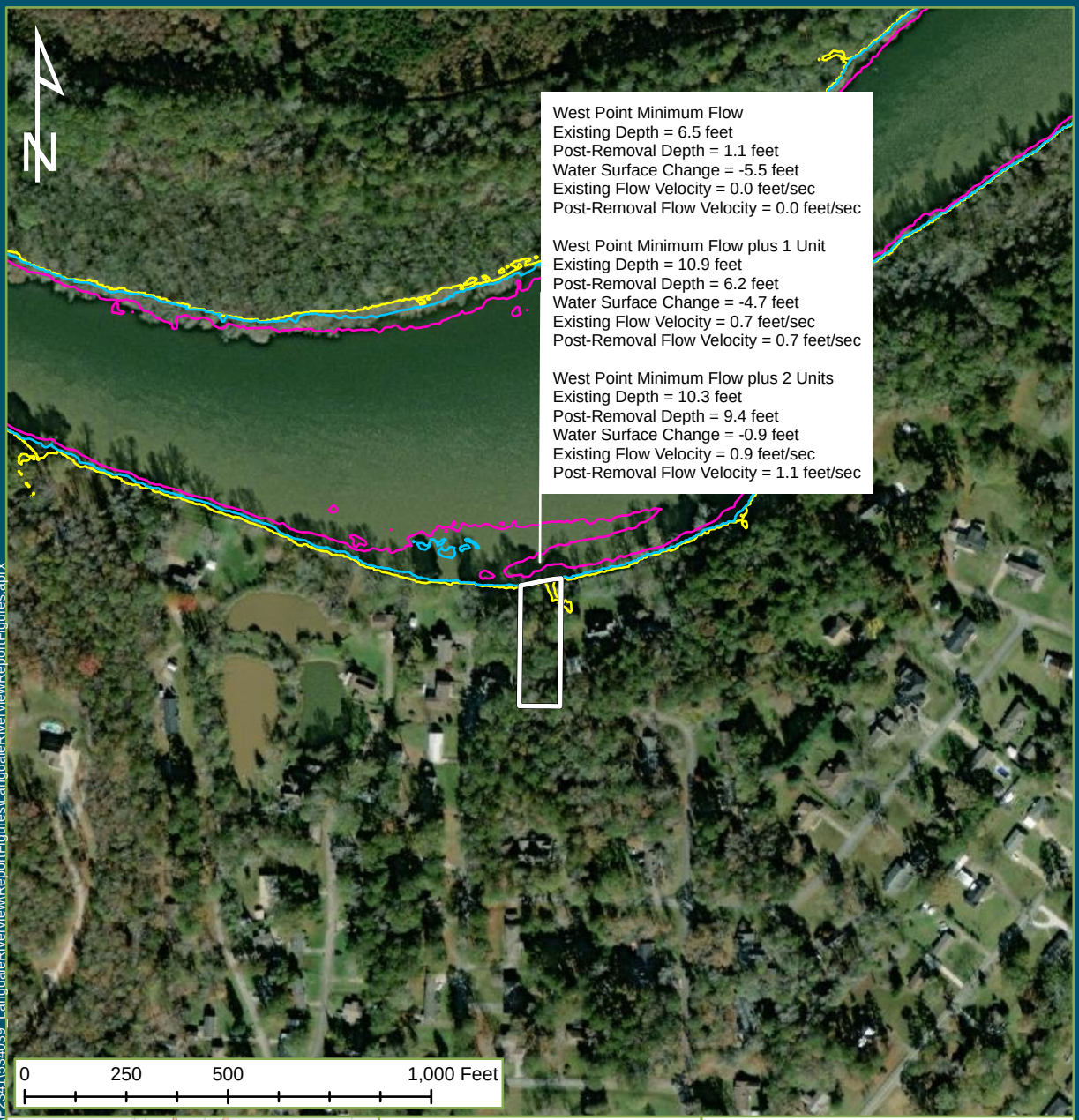
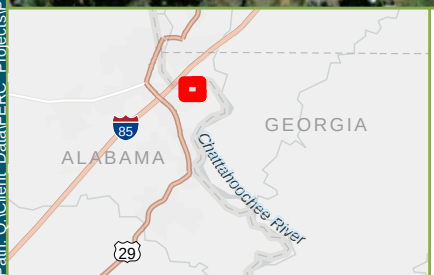
PN: 534039.01

Parcel 007





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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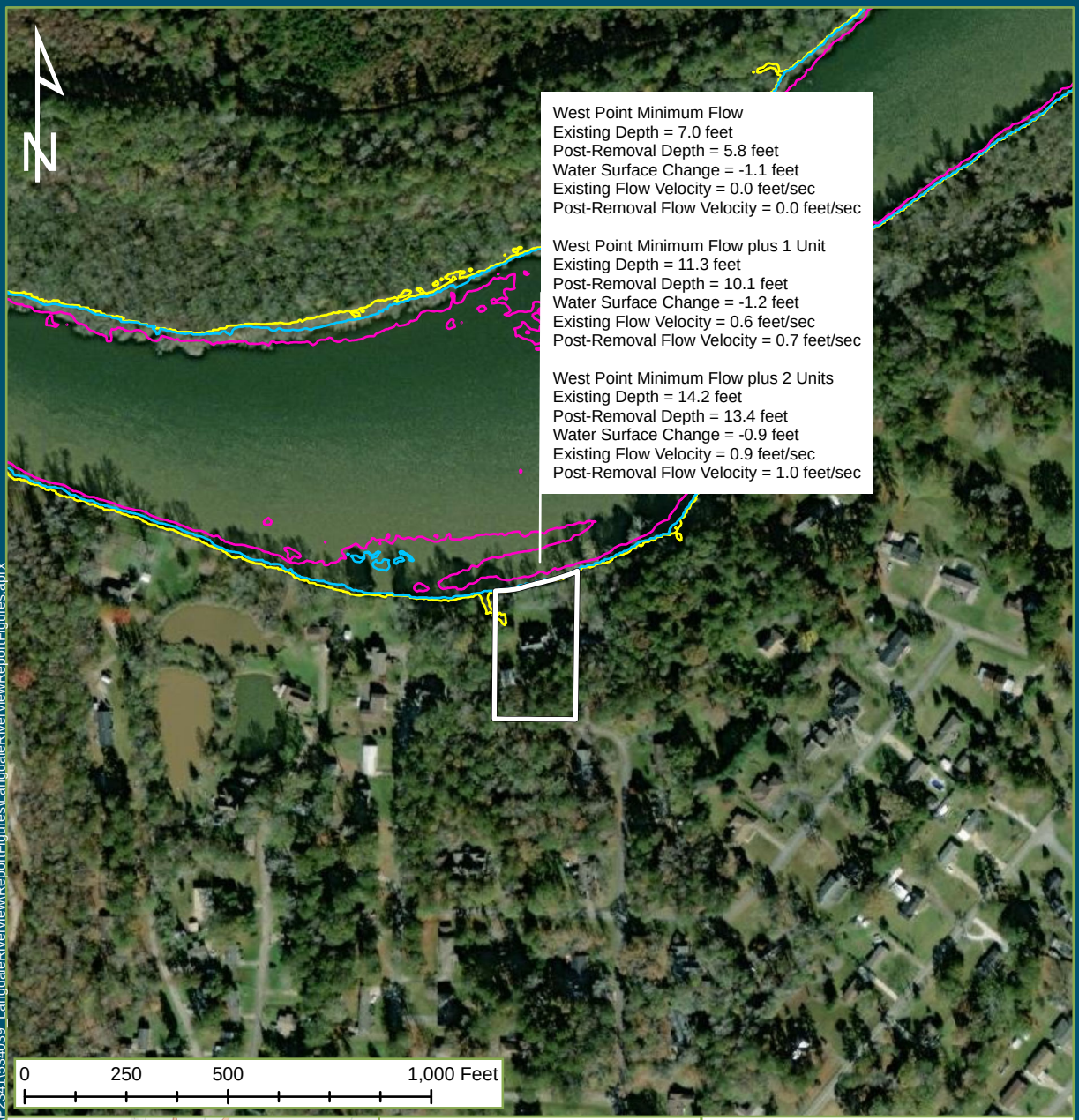
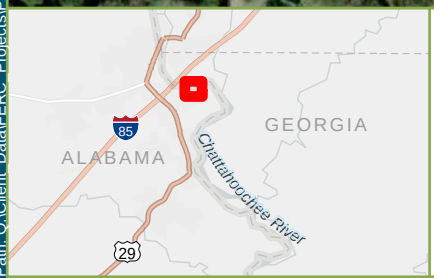
PN: 534039.01

Parcel 008





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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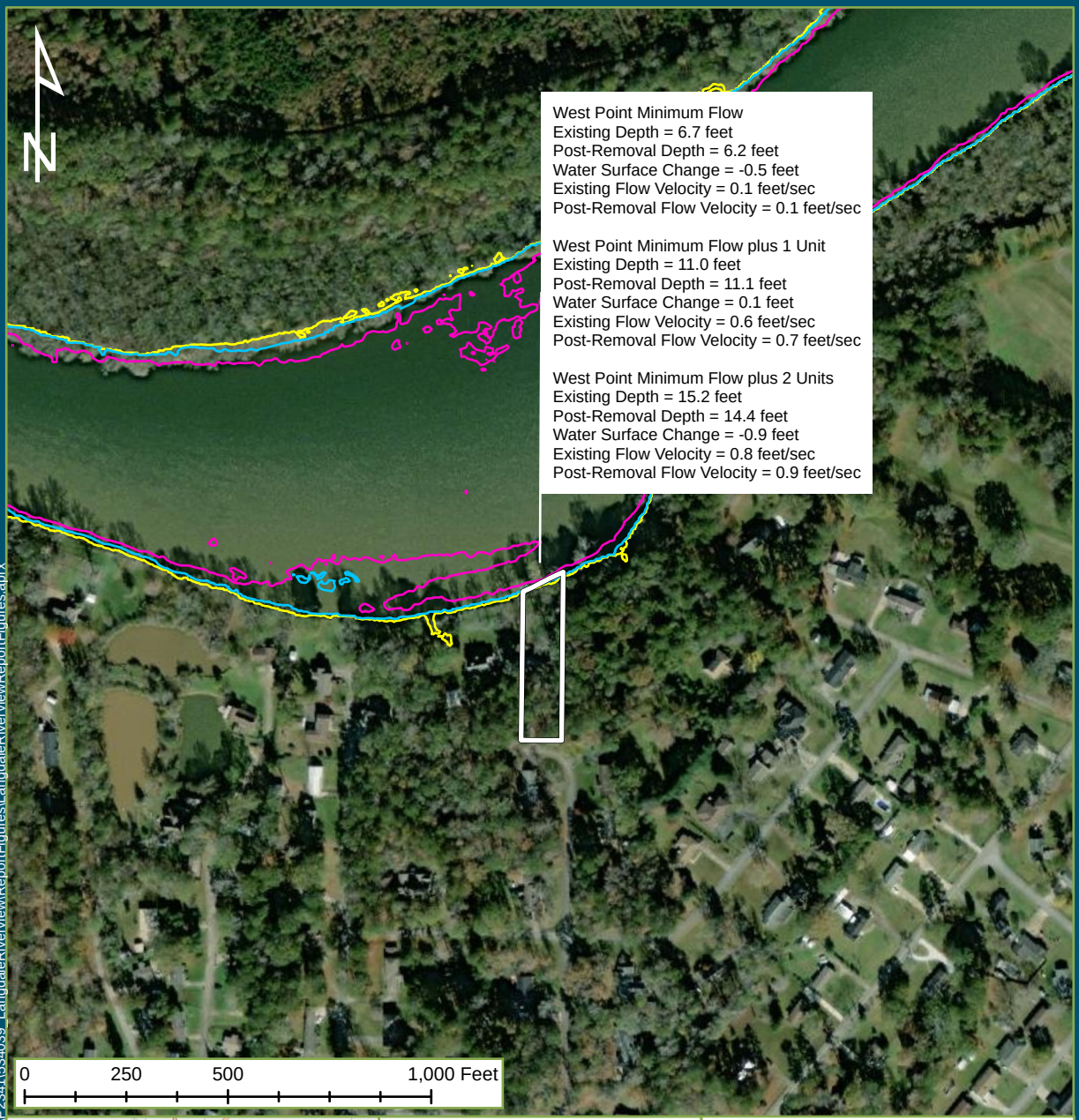
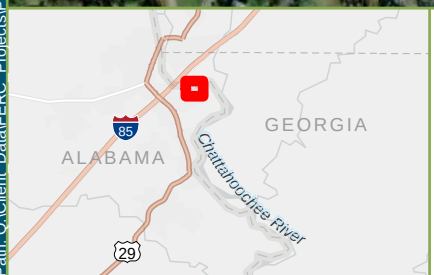
Parcel 009





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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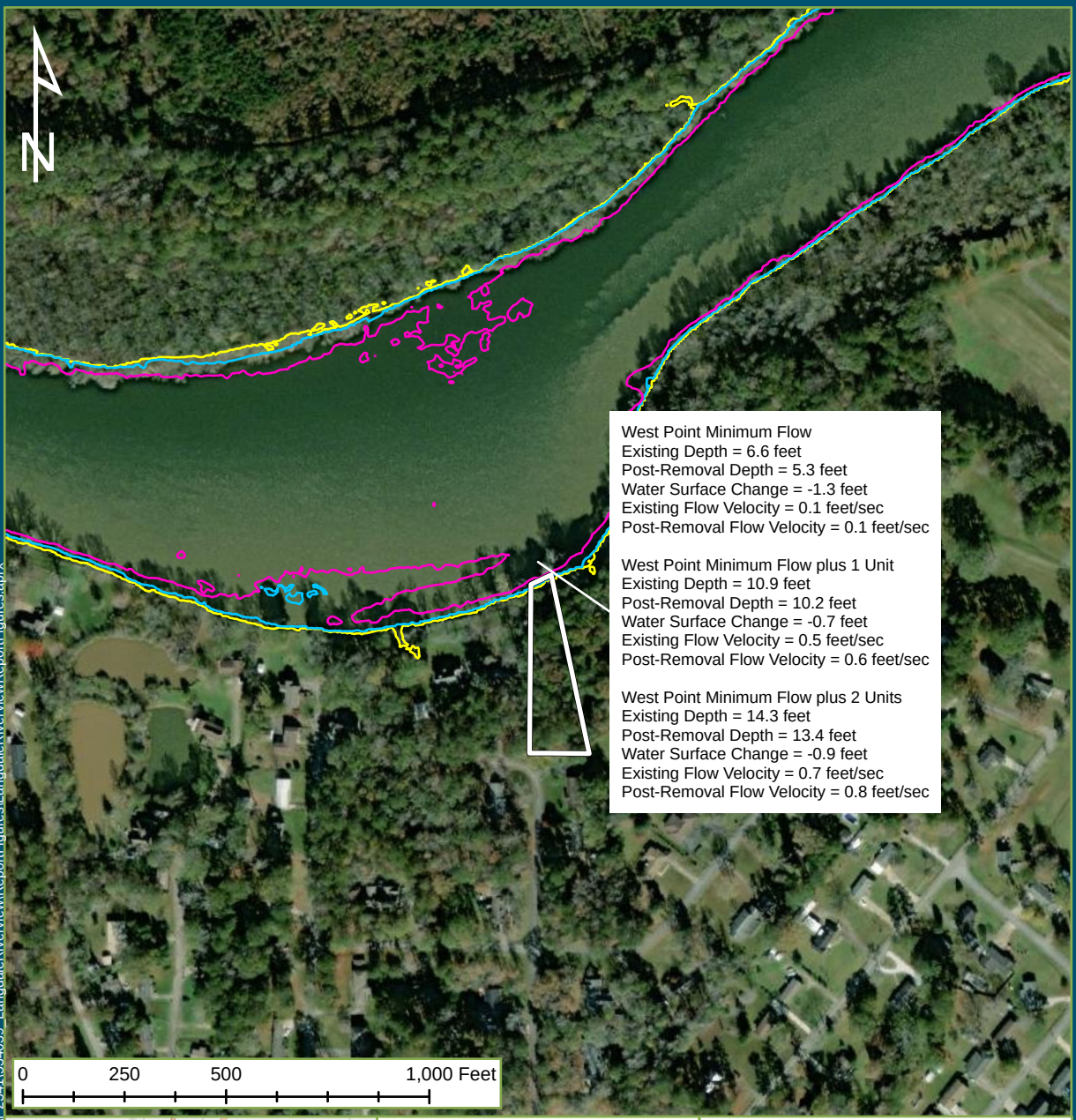
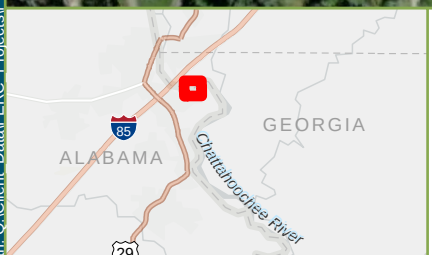
Parcel 010





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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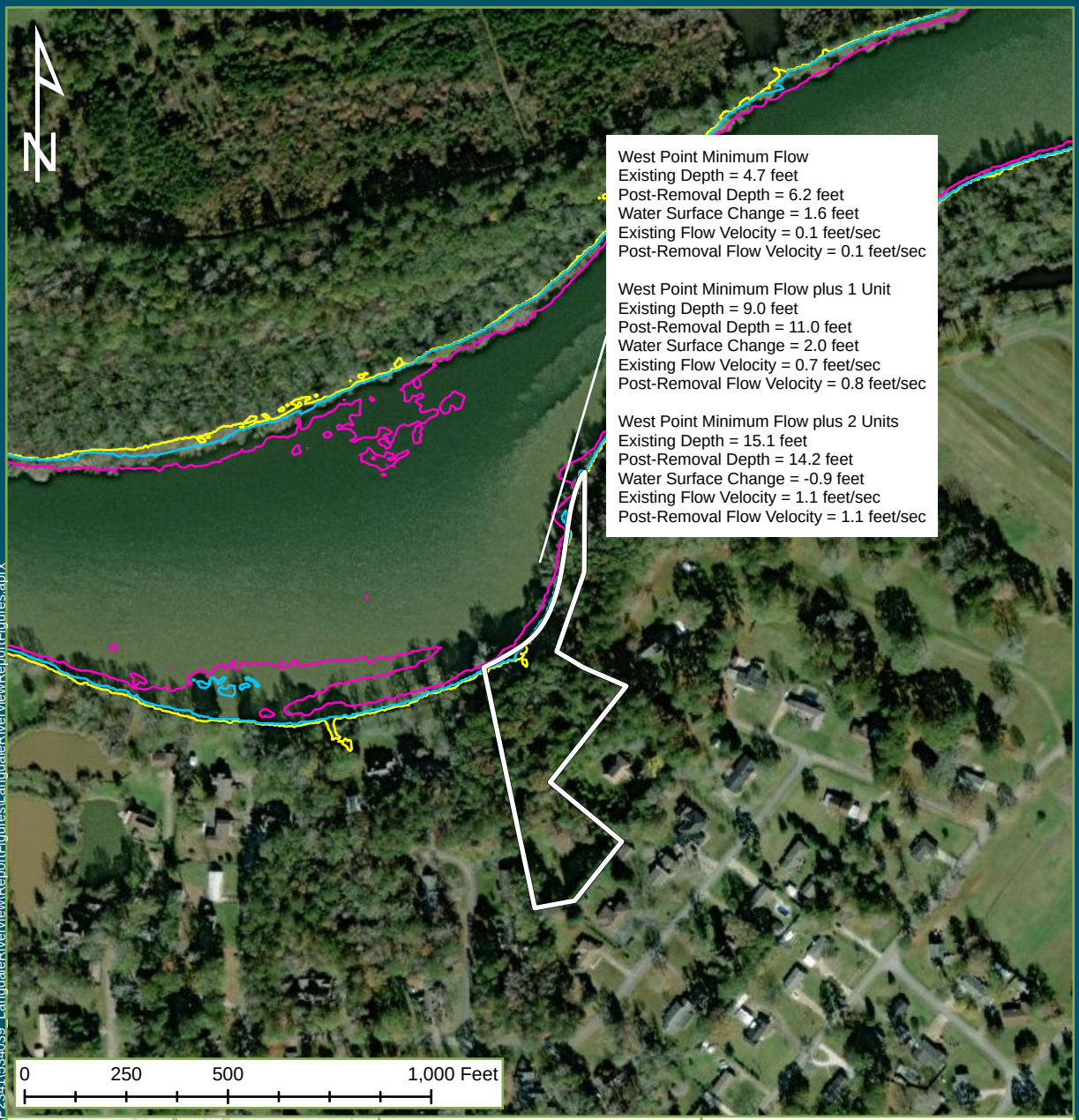
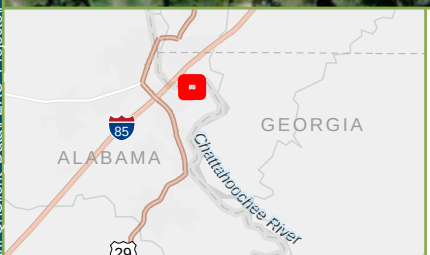
Parcel 011





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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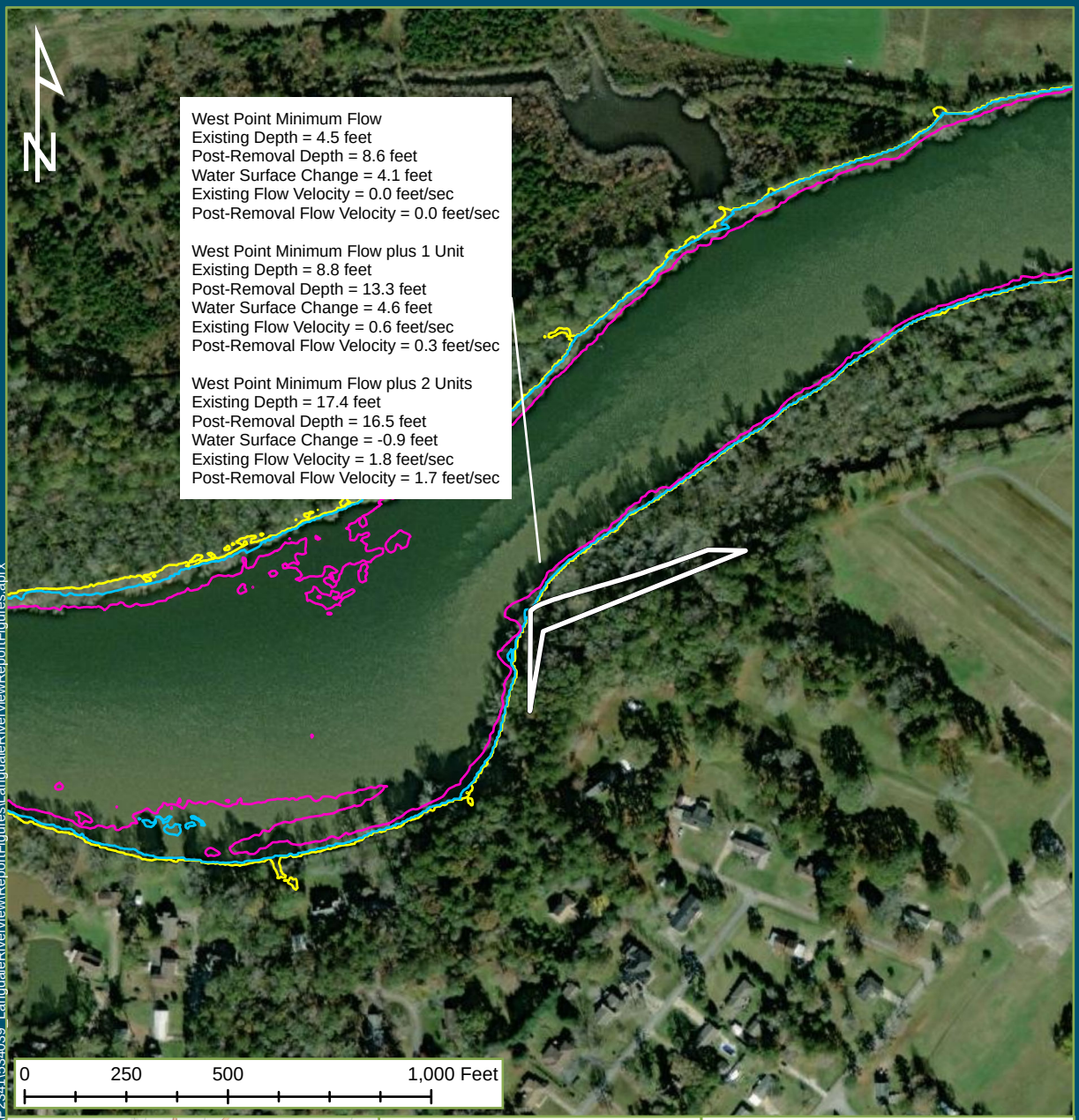
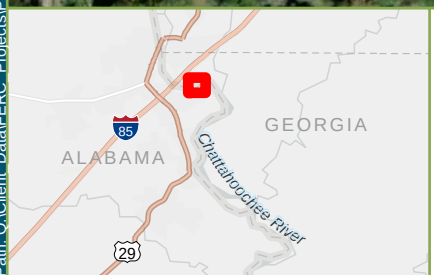
Parcel 012





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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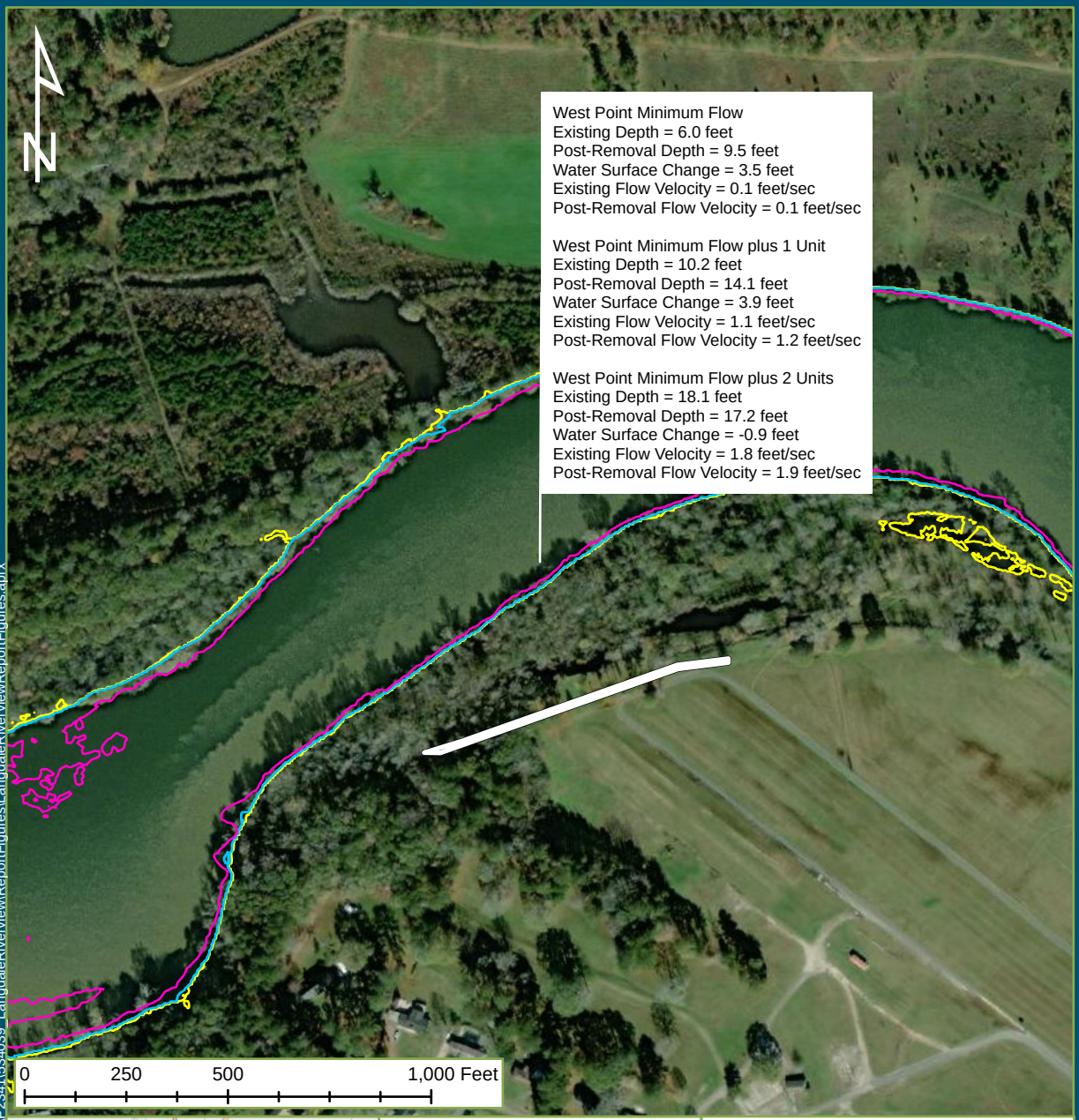
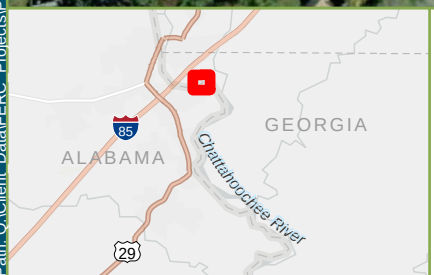
Parcel 013





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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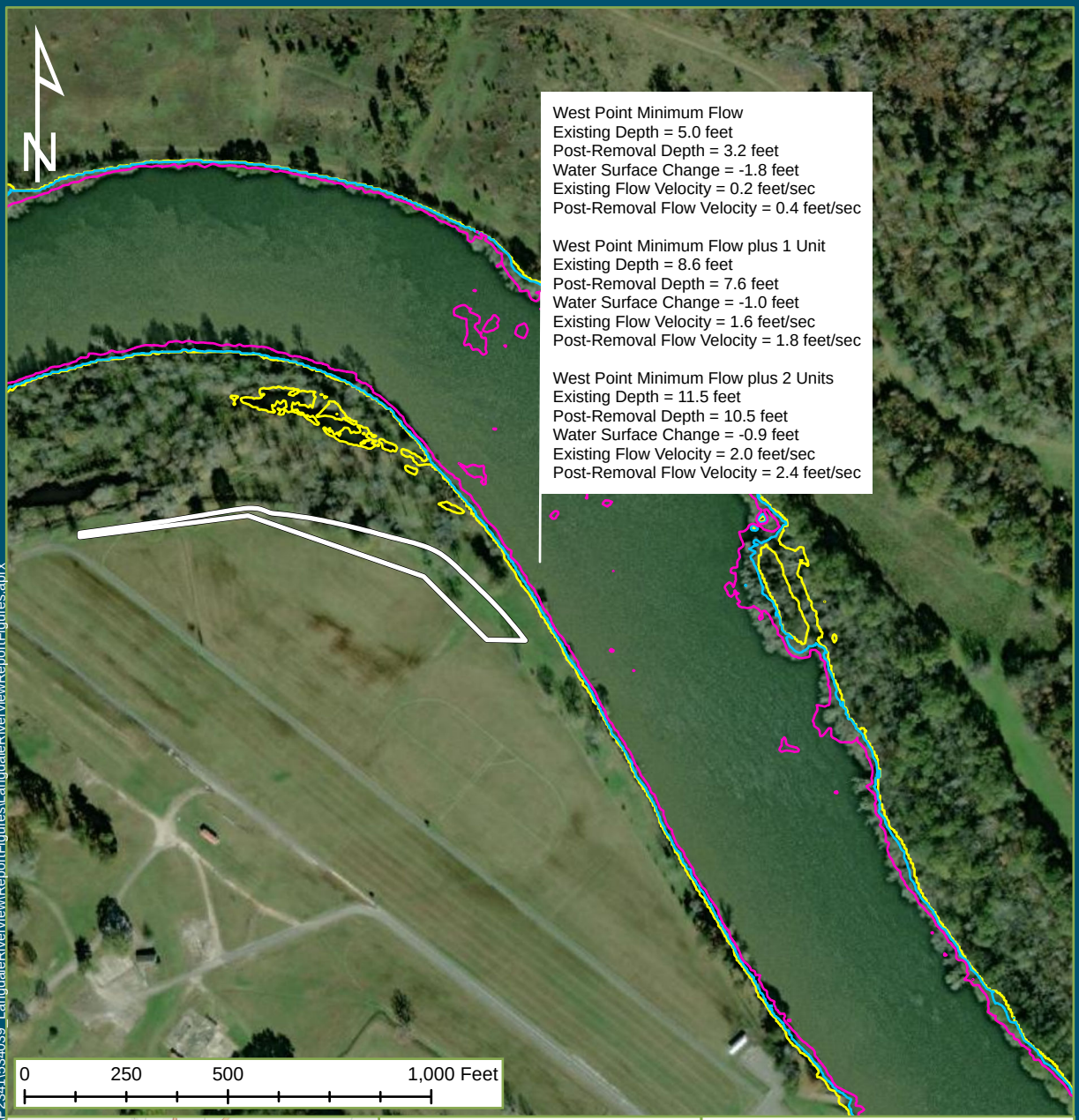
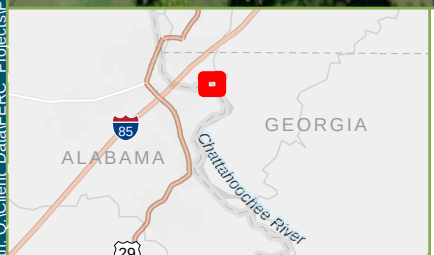
Parcel 014





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power
Langdale, Georgia

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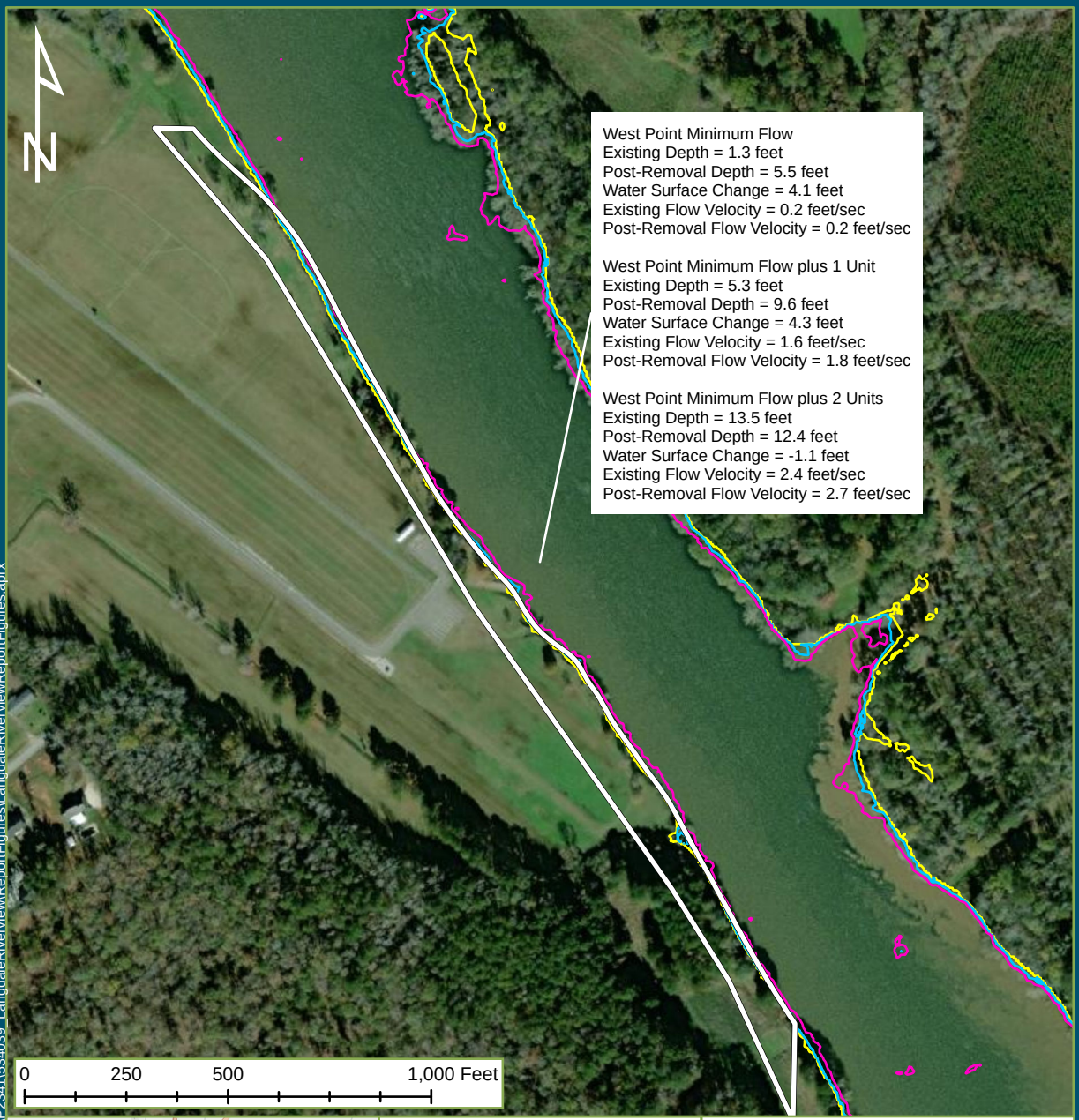
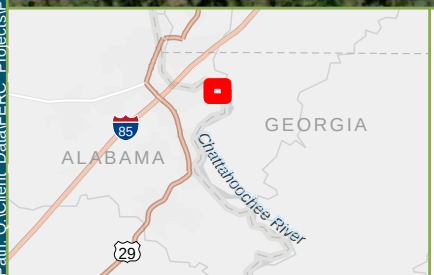
Parcel 015





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power
Langdale, Georgia

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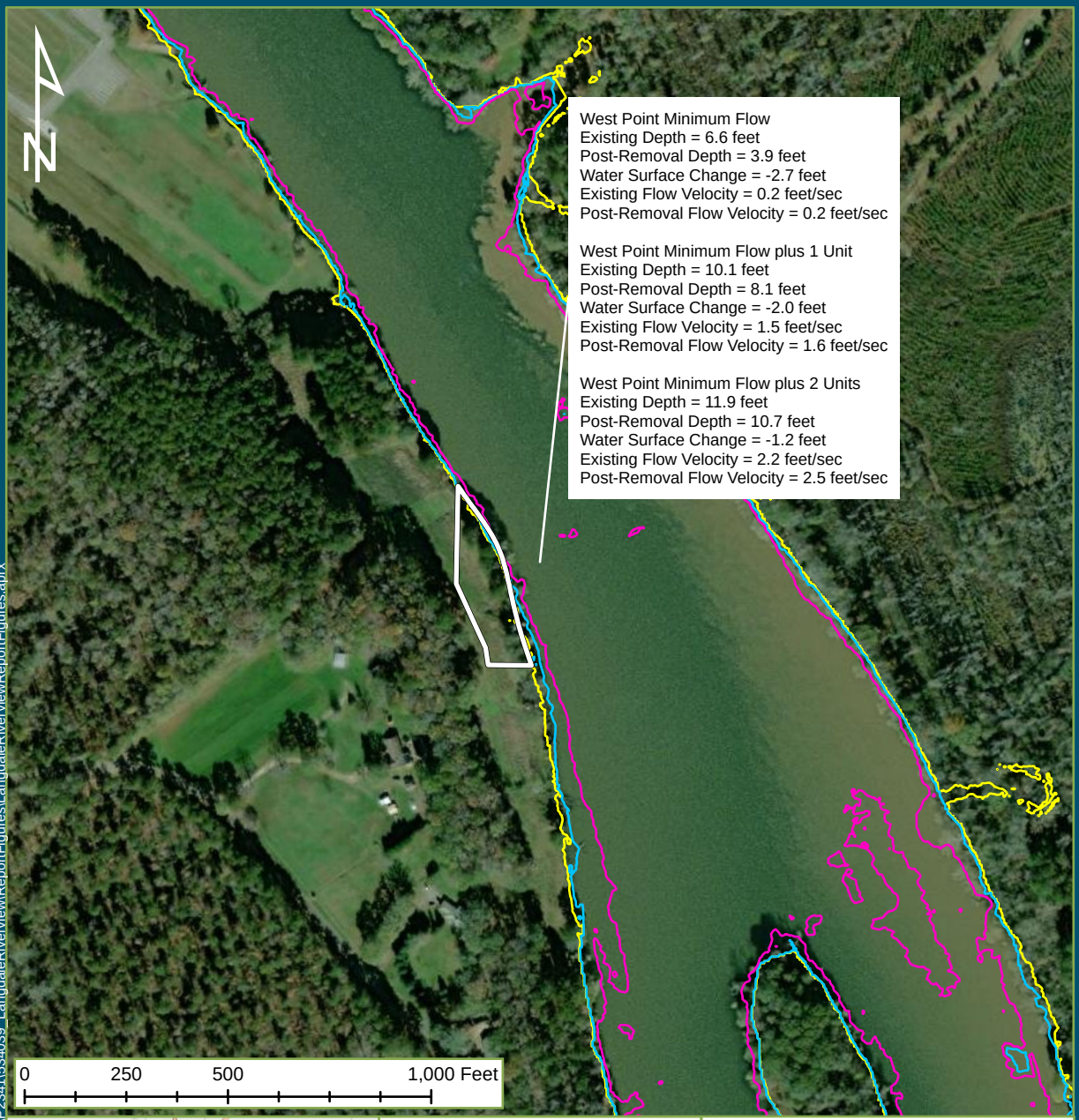
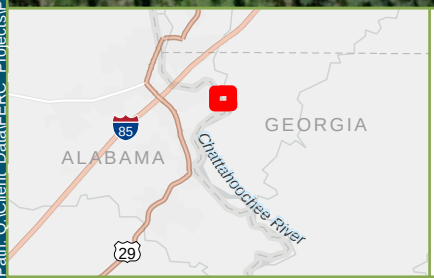
Parcel 016





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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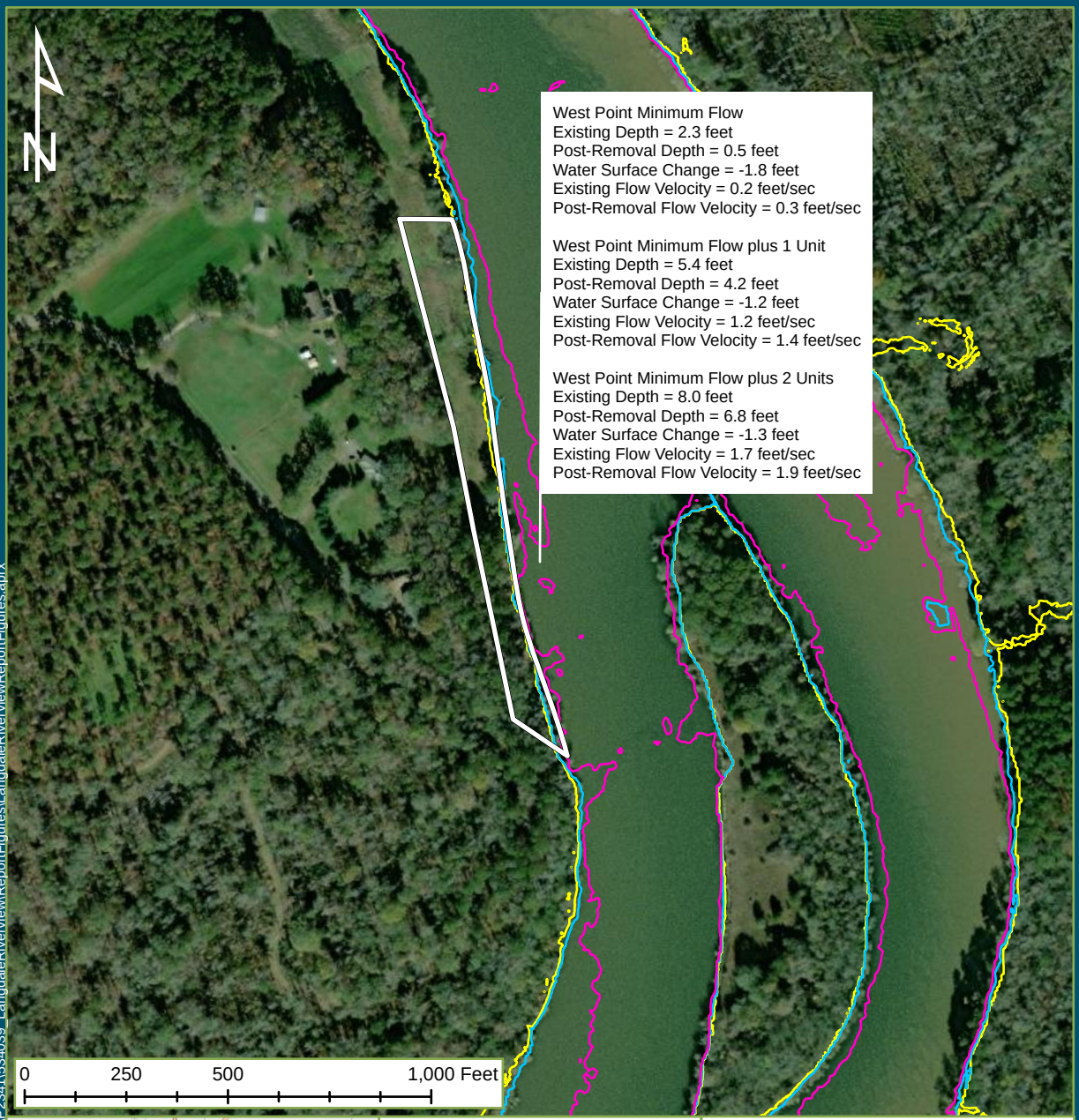
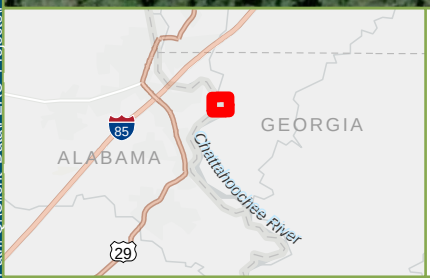
Parcel 017





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power
Langdale, Georgia

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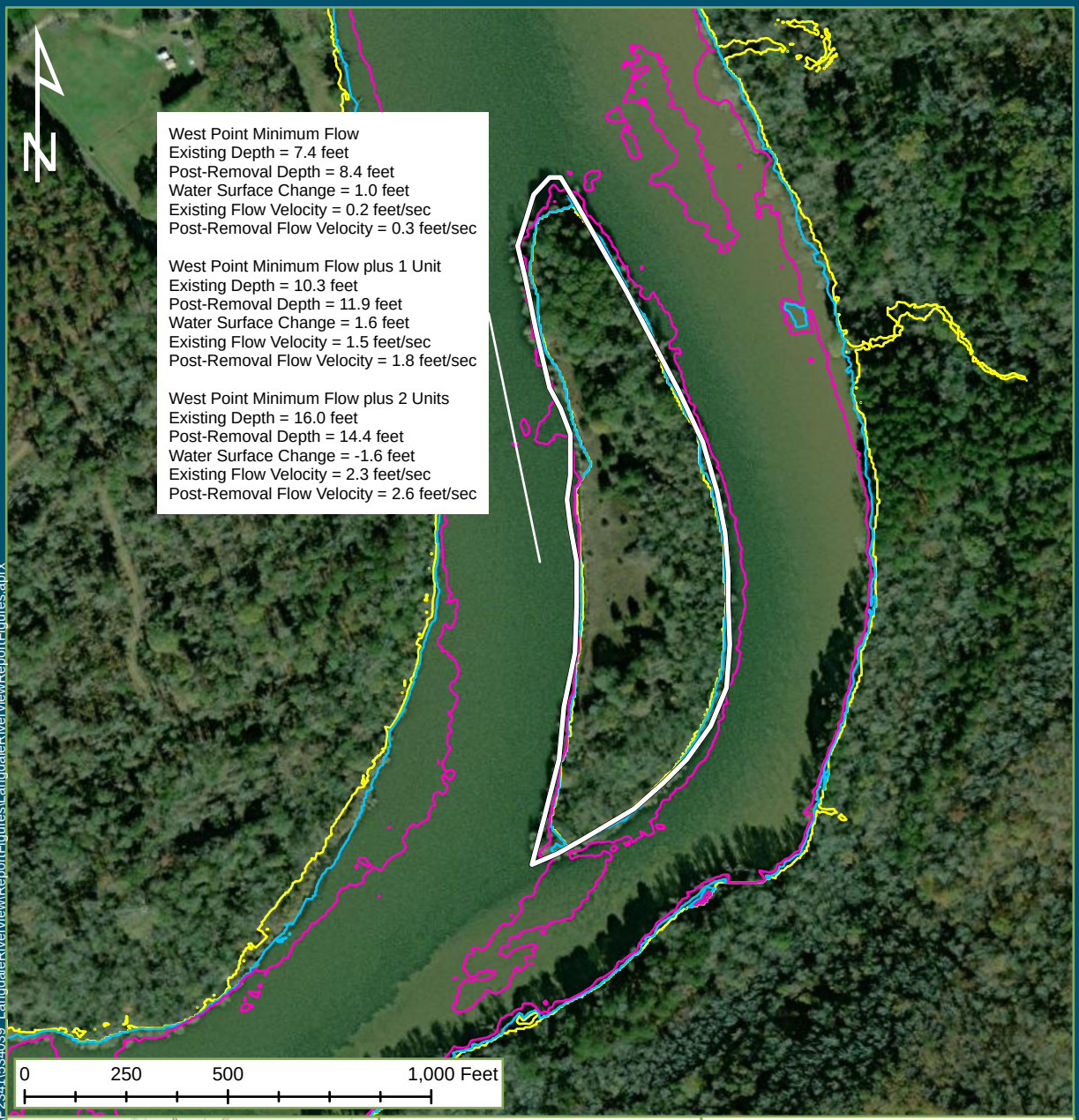
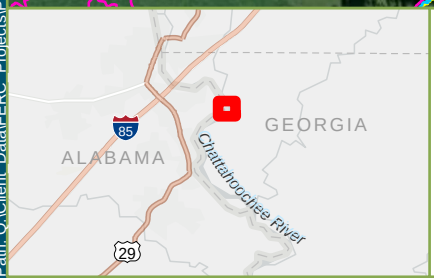
Parcel 018





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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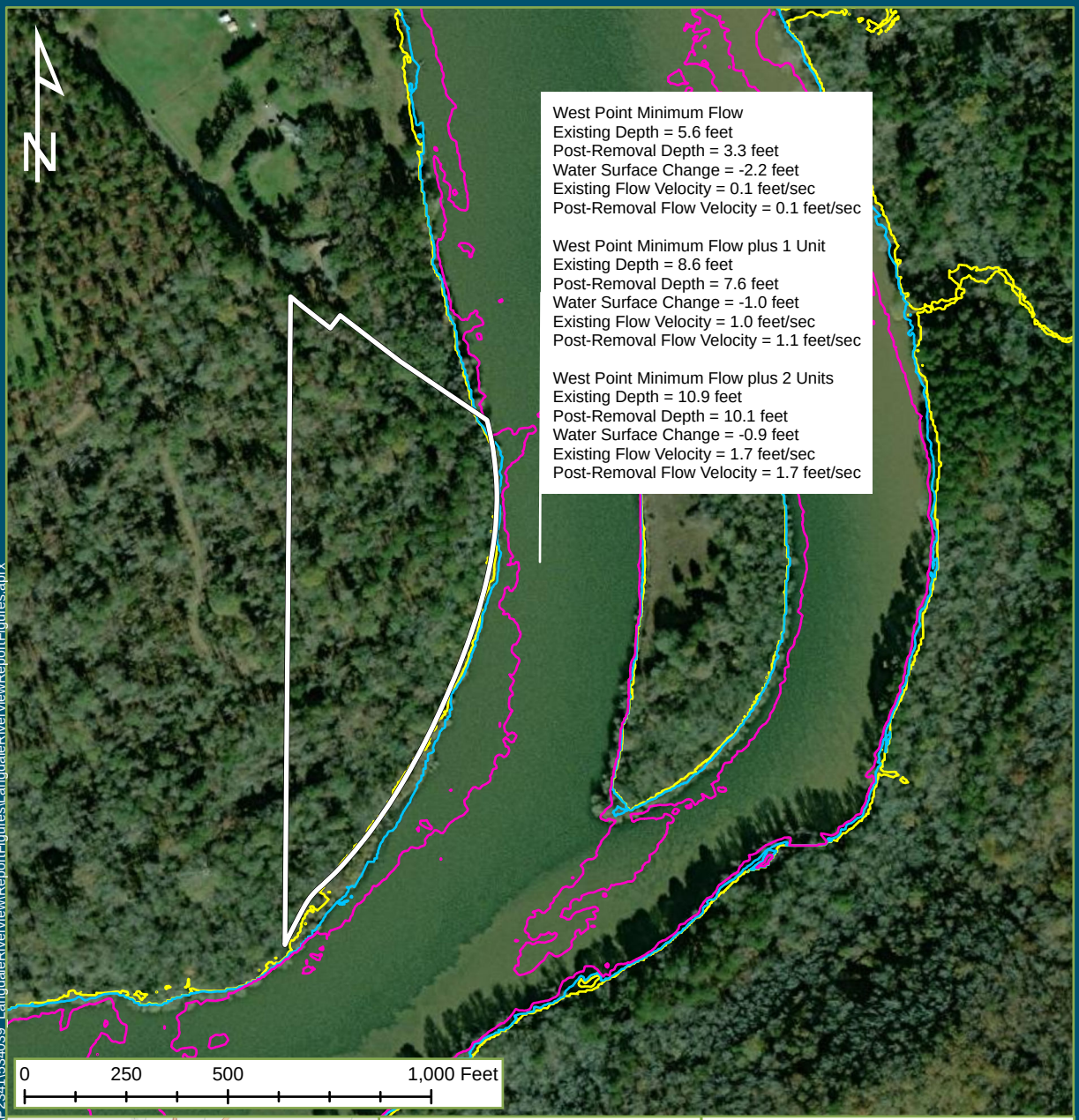
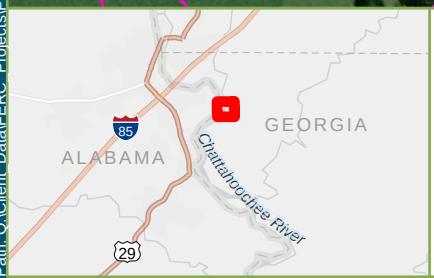
Parcel 019





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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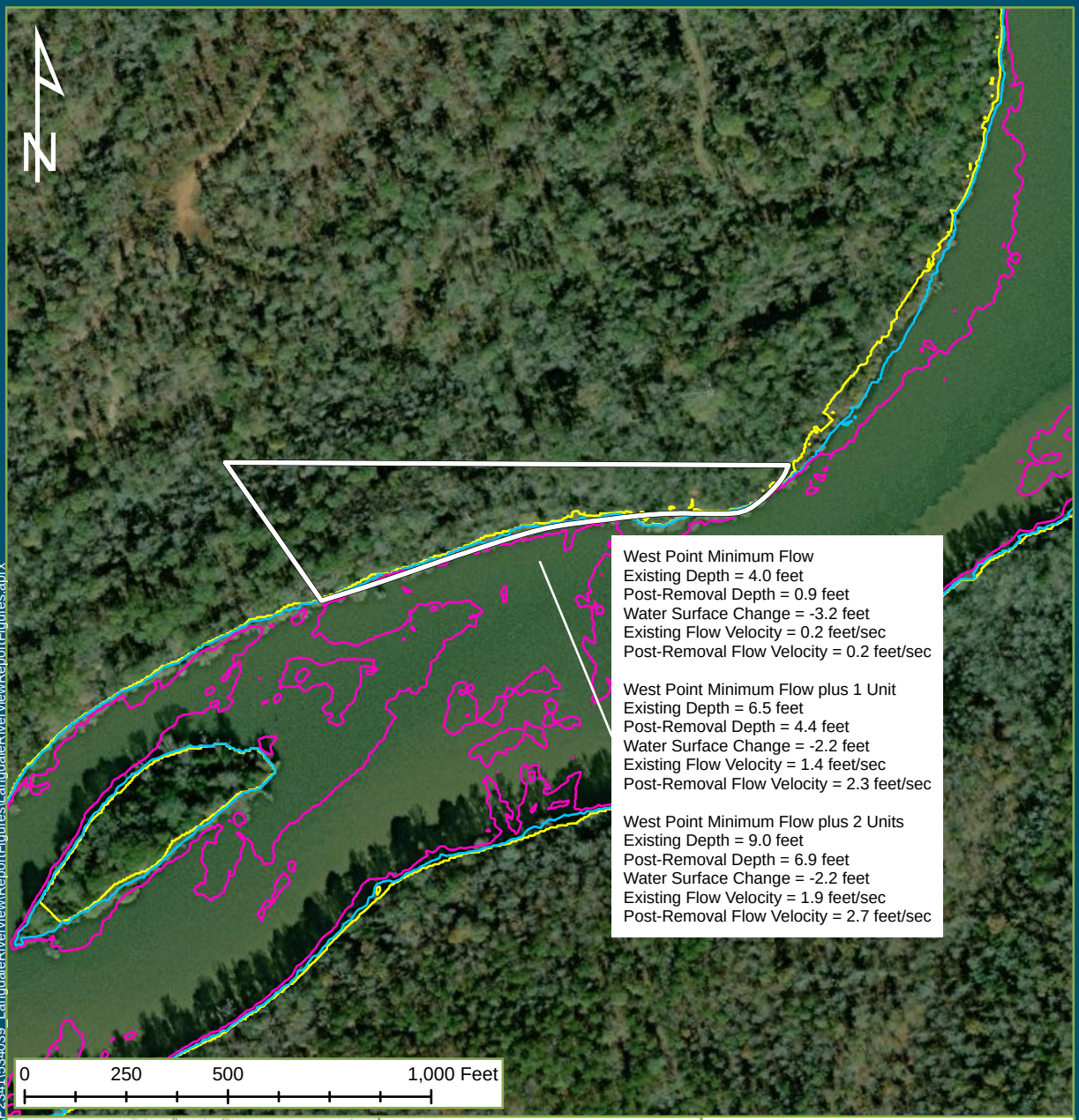
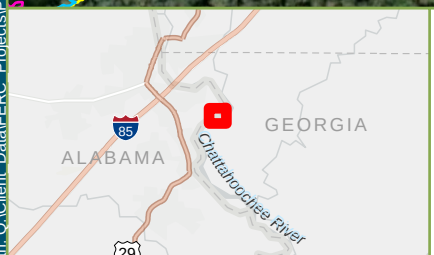
Parcel 020





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

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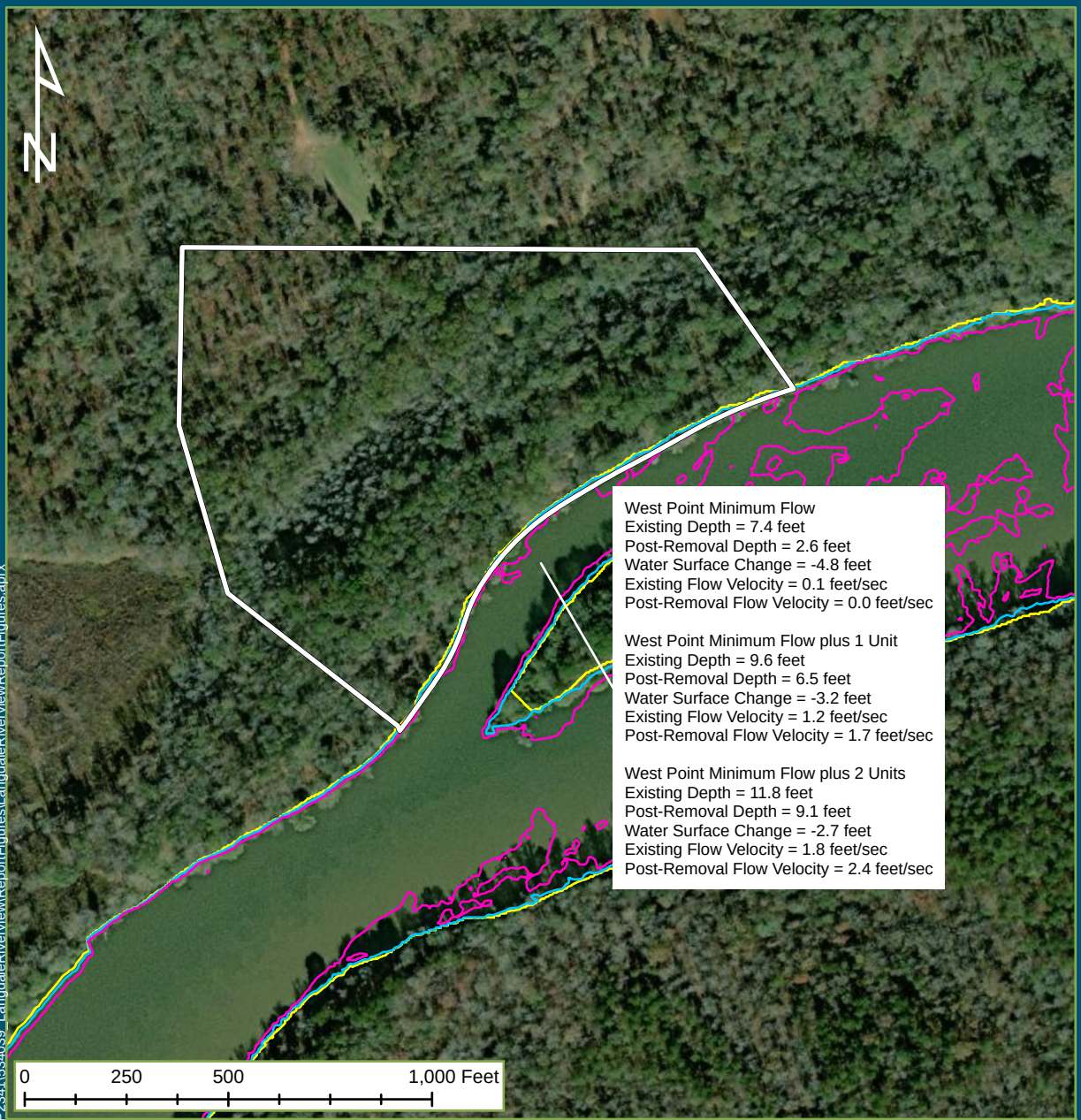
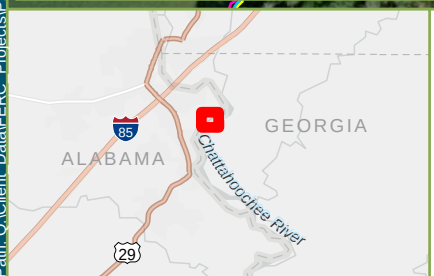
Date Printed: 5/20/2022

Source: Esri, Maxar, HERE, Garmin, FAO, NASA, USGS, EPA, NGS

PN: 534039.01

Parcel 021





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

Drawn By:	Date Drawn:	Checked By:	Date Checked:
ADY	05-20-2022	KPN	05-20-2022

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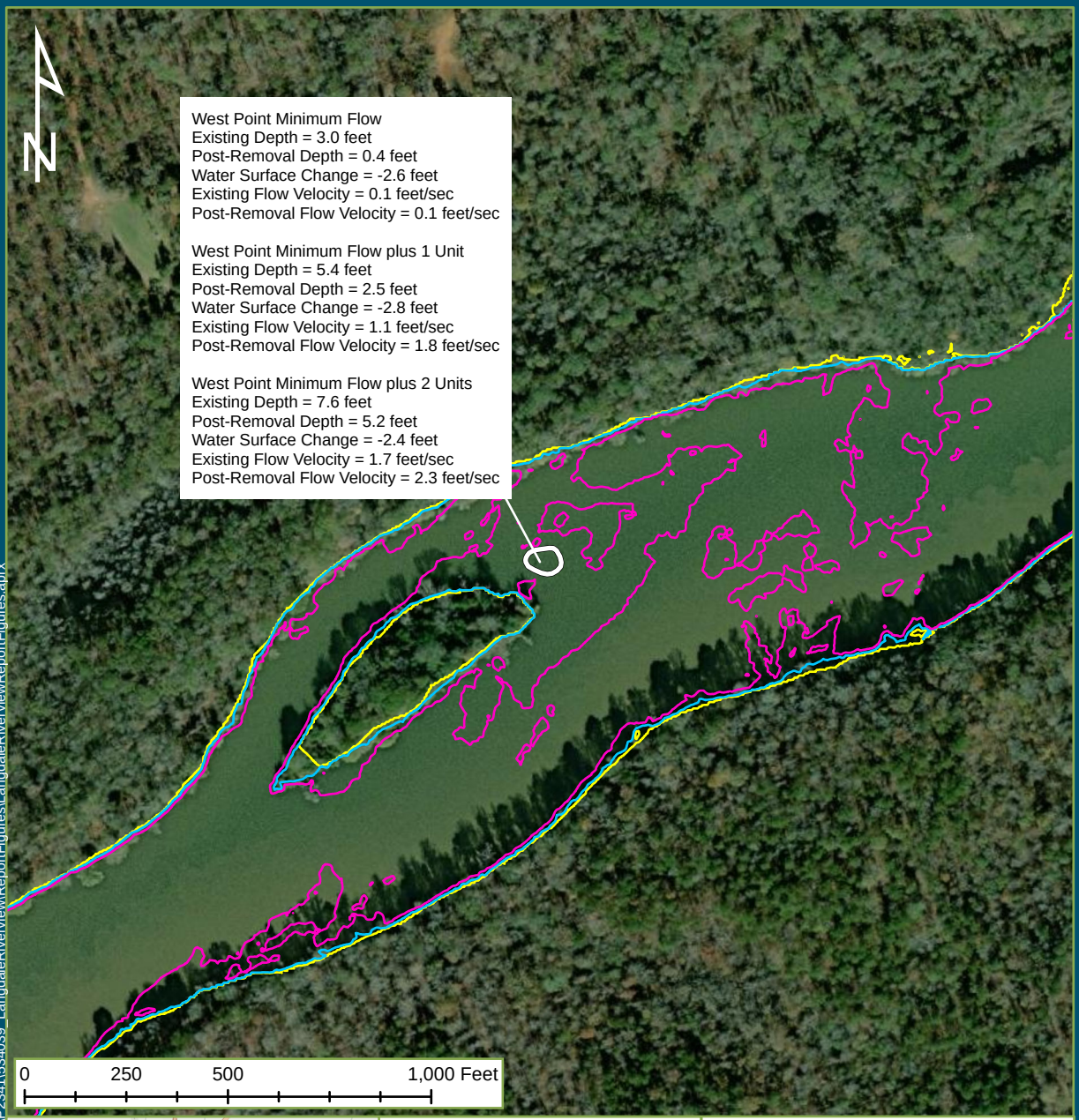
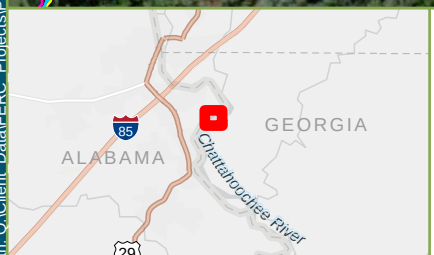
Date Printed: 5/20/2022

Source: Esri, Maxar, HERE, Garmin, FAO, NASA, USGS, EPA, NGS

PN: 534039.01

Parcel 022





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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PN: 534039.01

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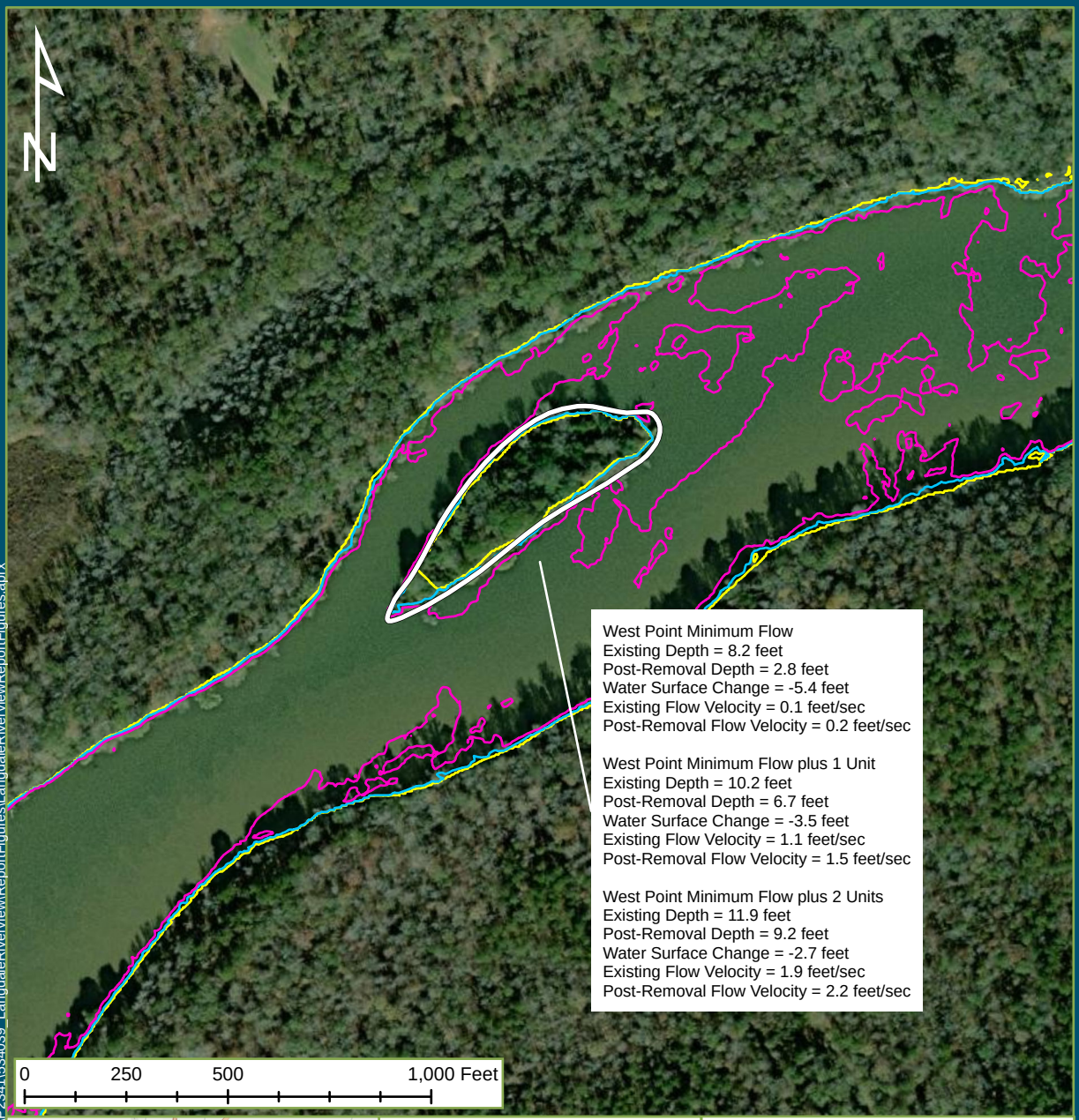

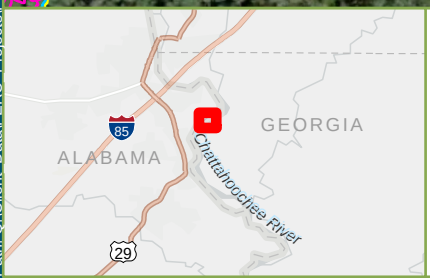

Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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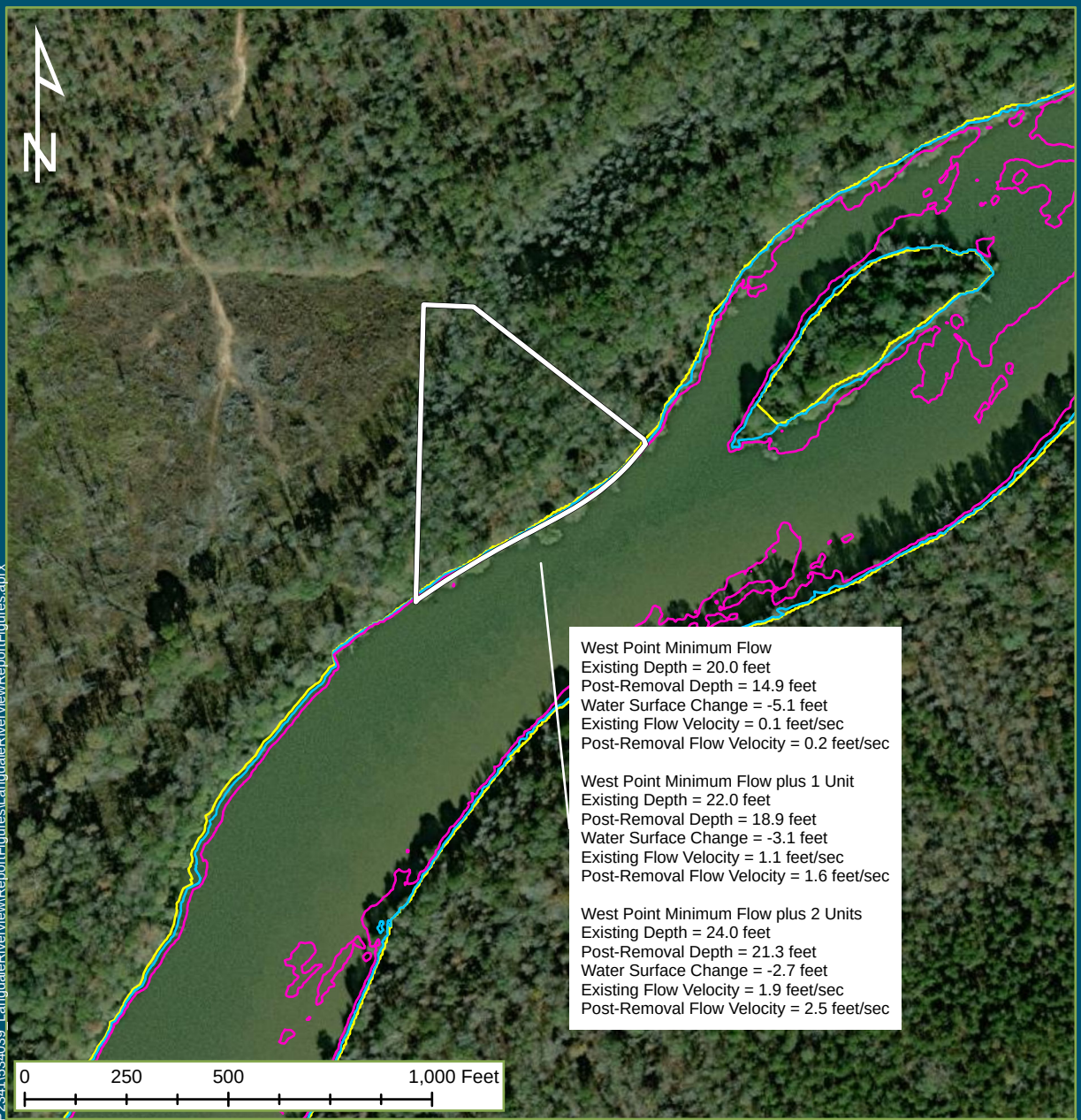
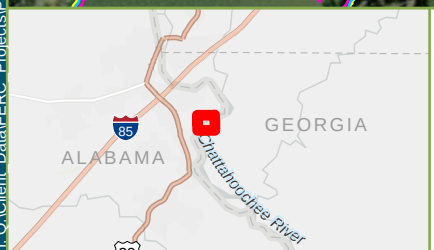
PN: 534039.01

Parcel 024





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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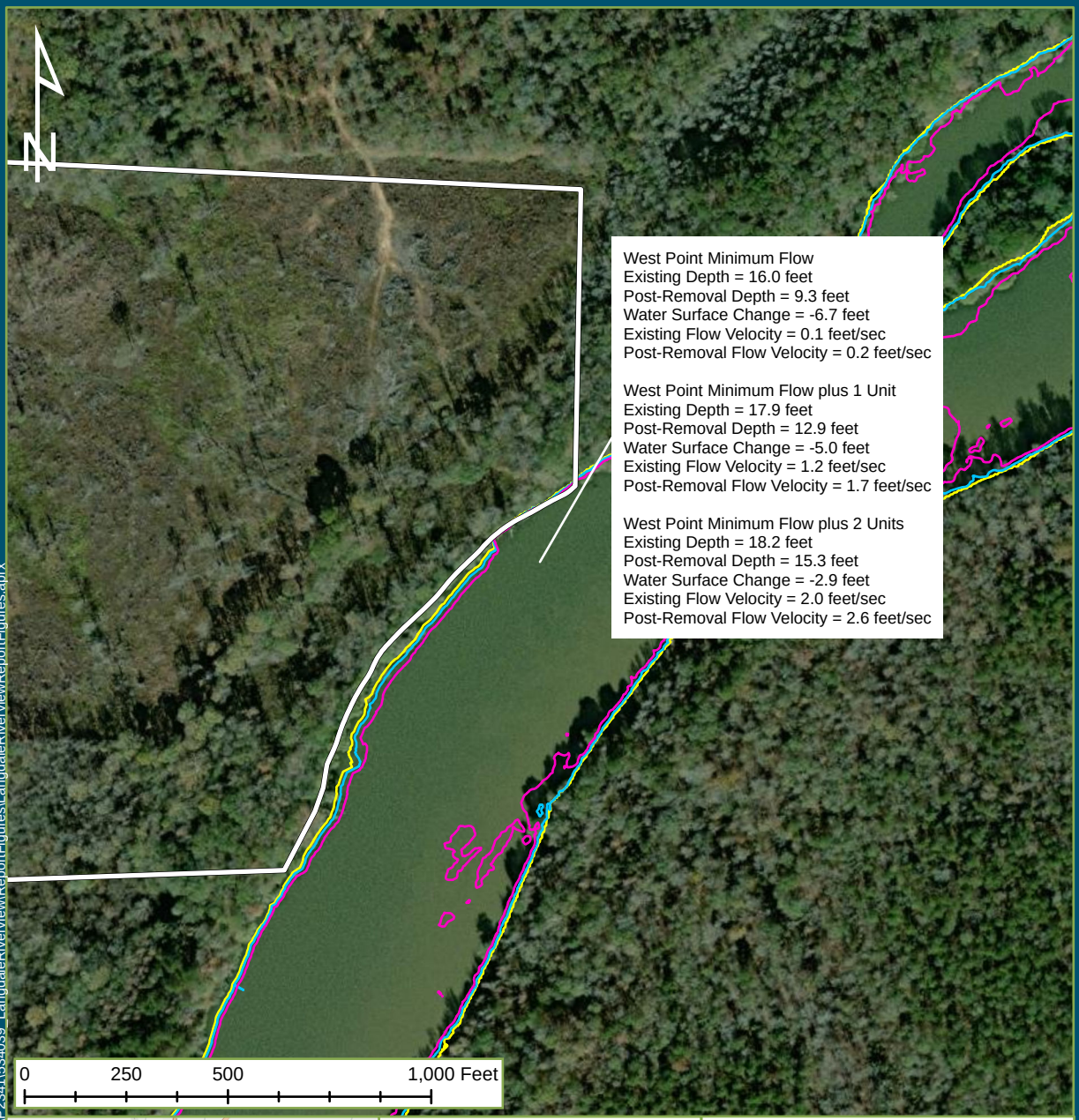
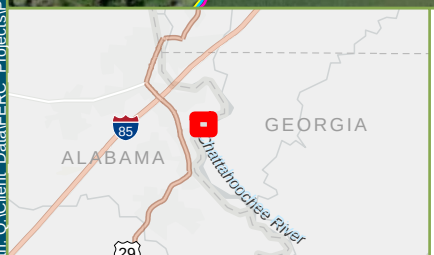
PN: 534039.01

Parcel 025





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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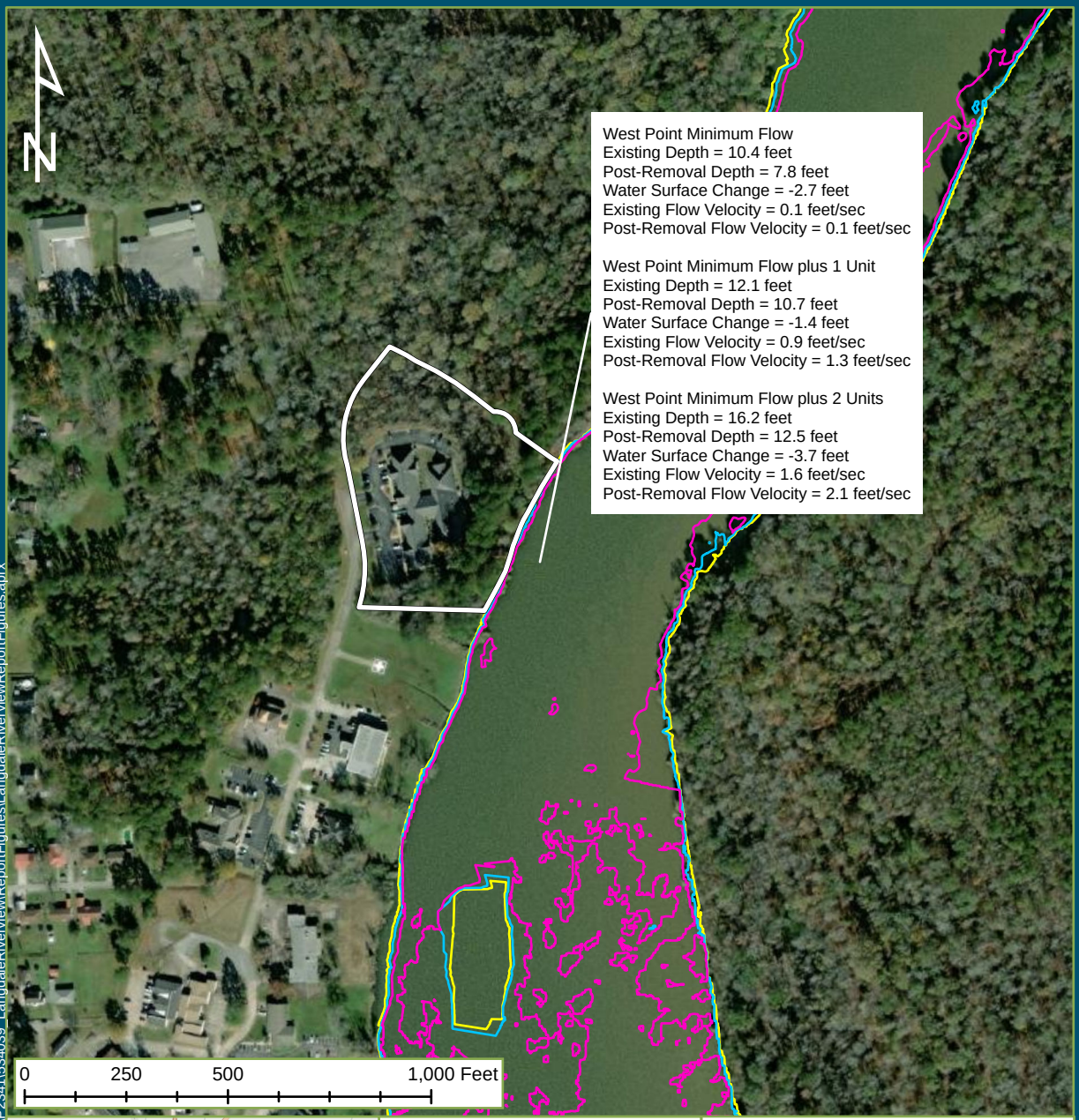
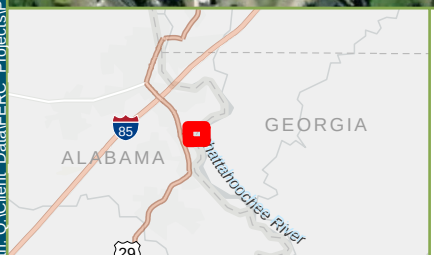
Parcel 027





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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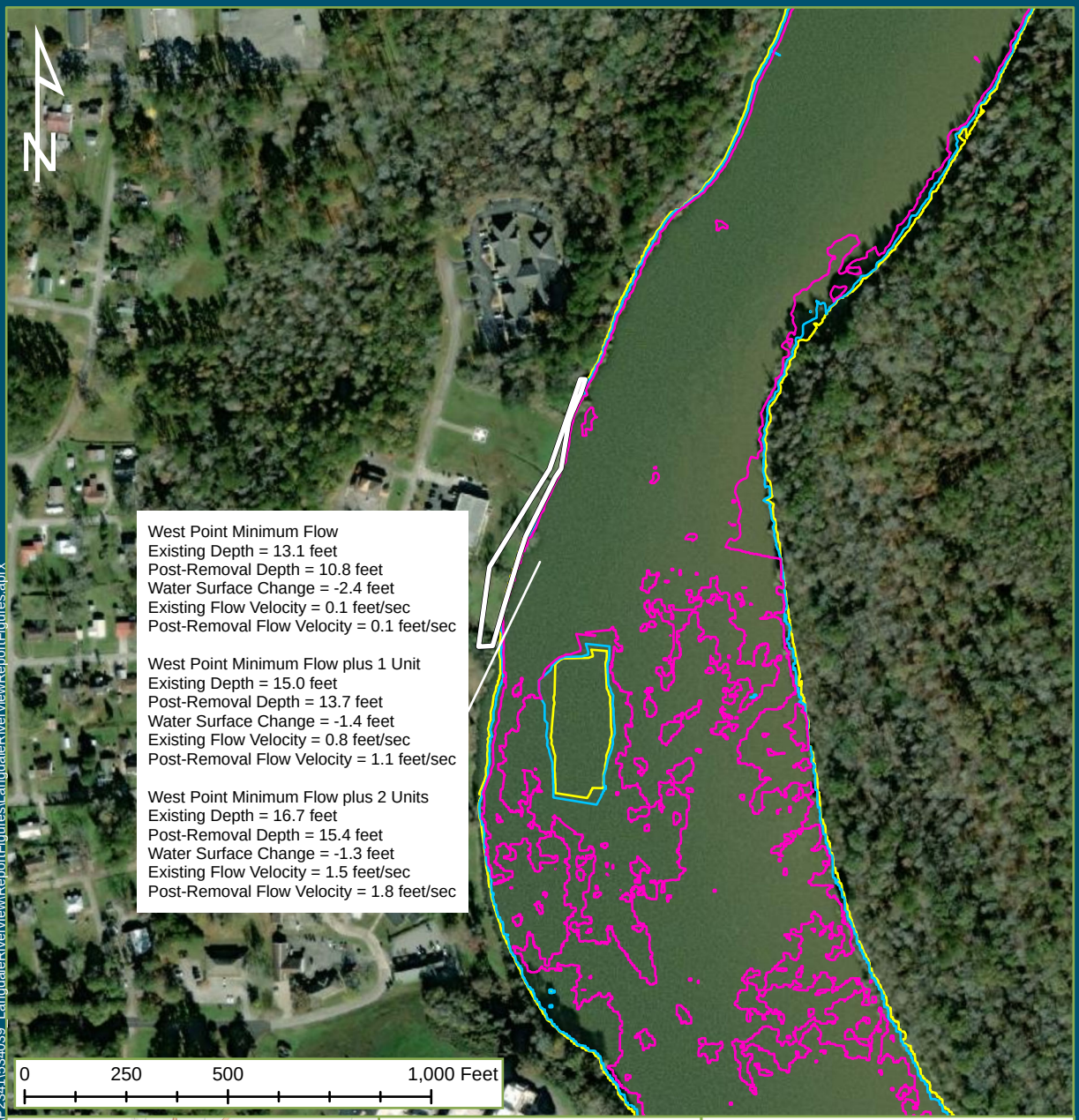
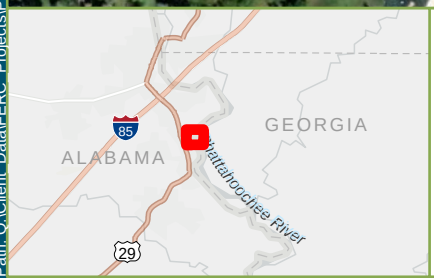
Parcel 028





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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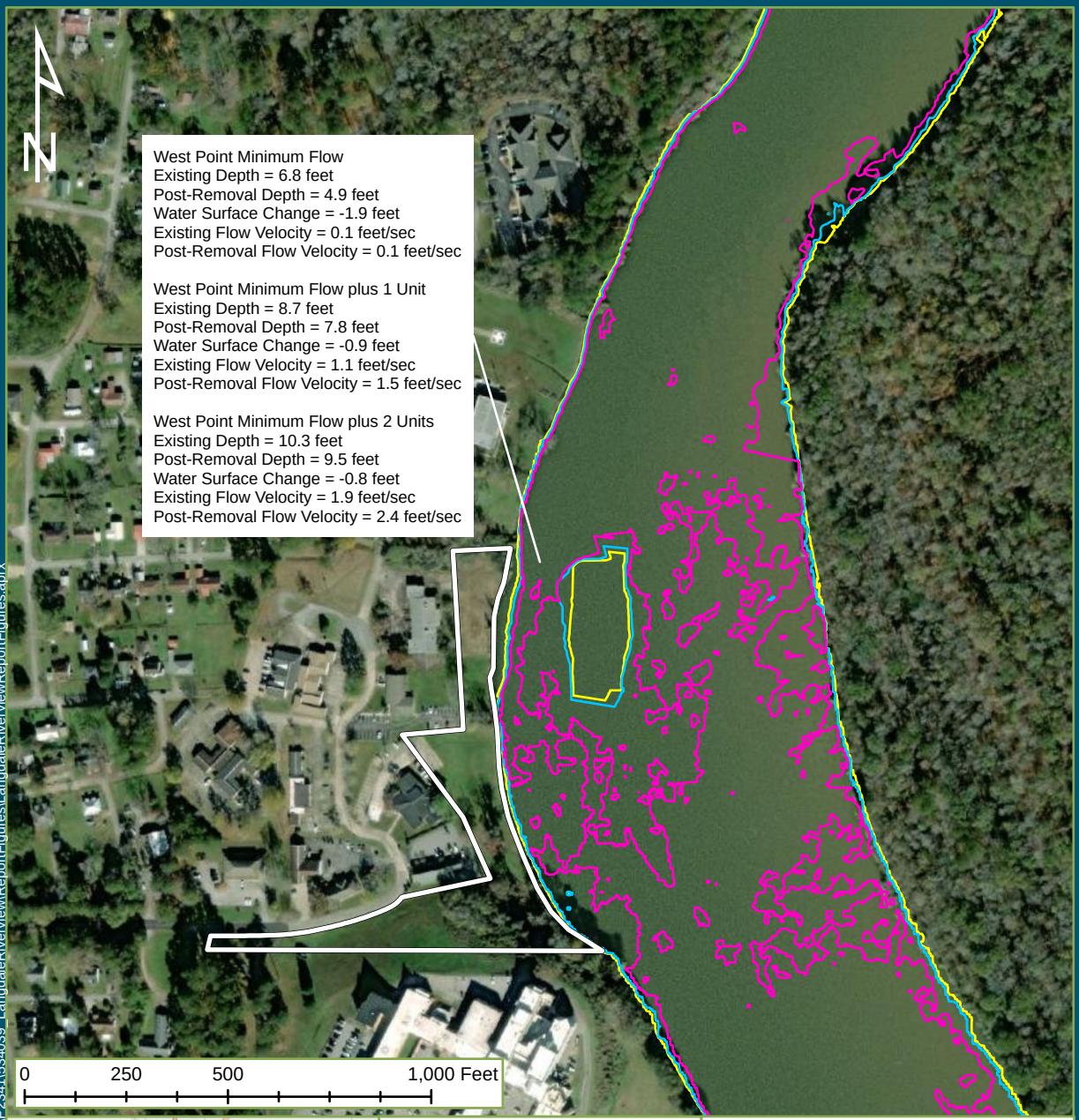
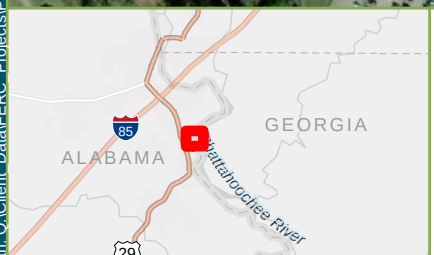
Parcel 029





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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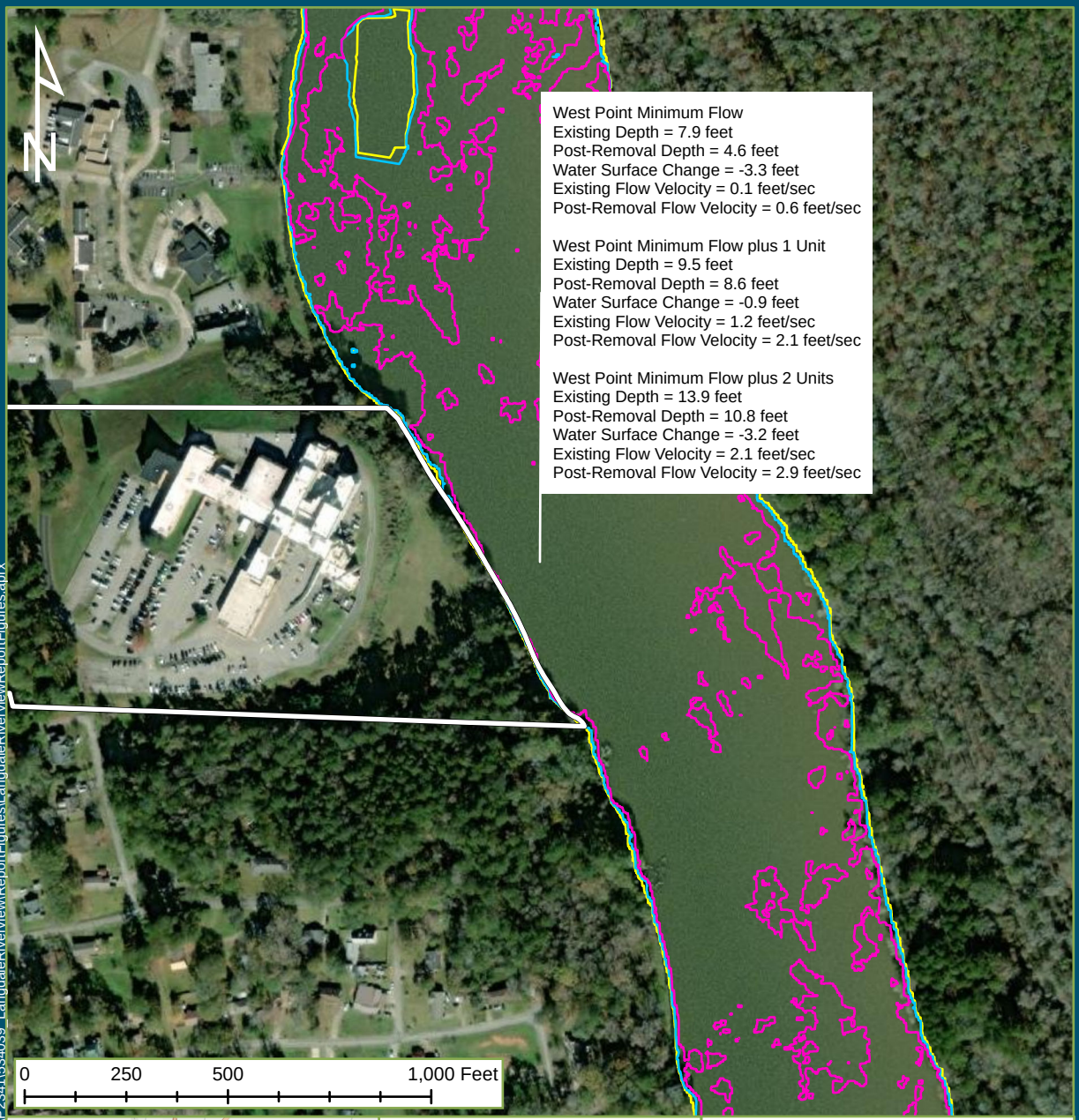
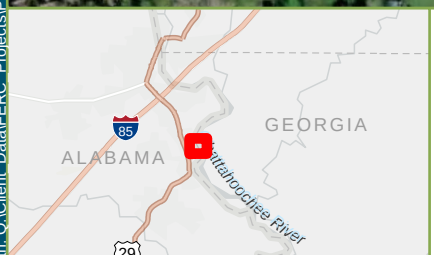
Parcel 030





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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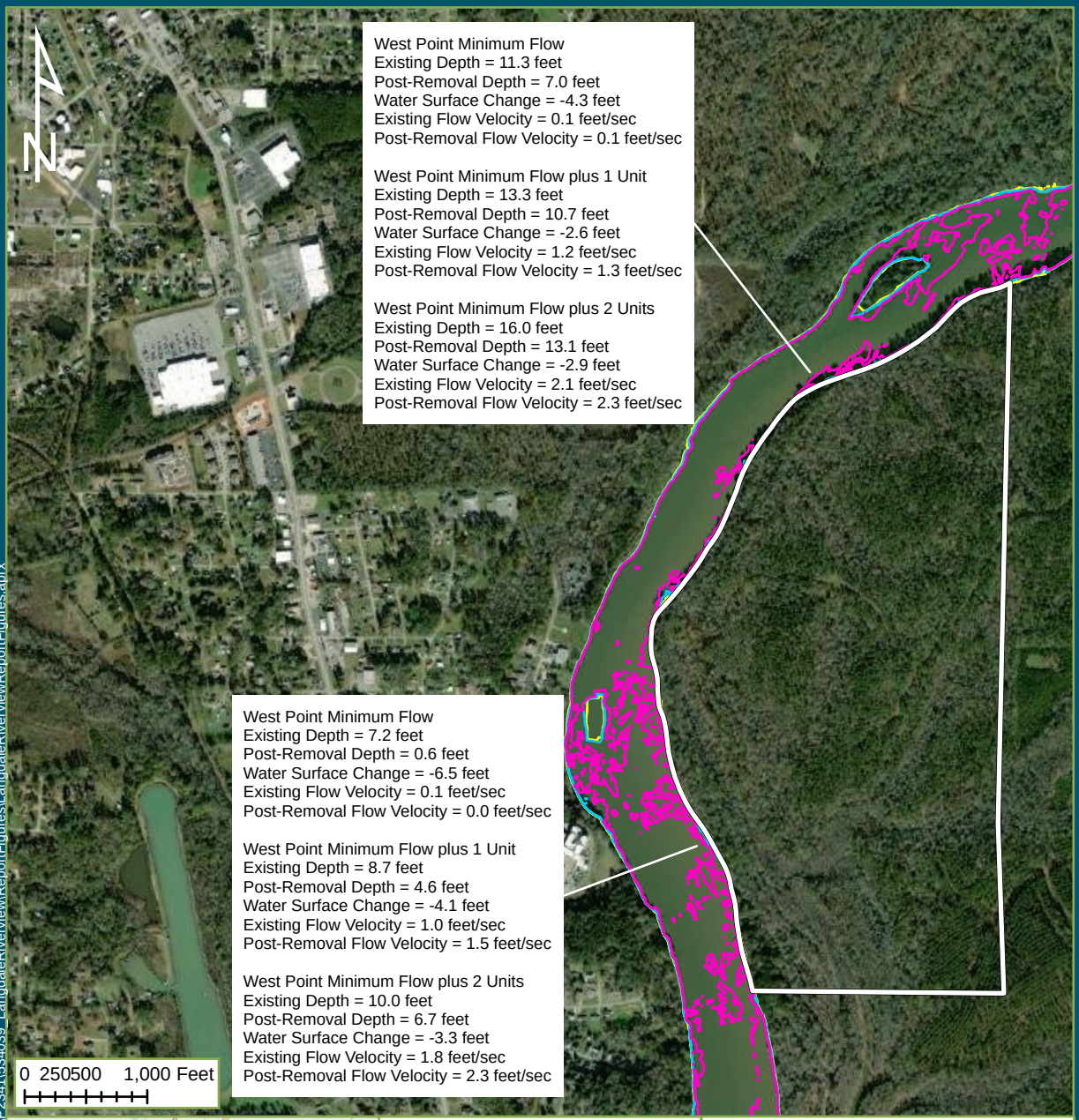
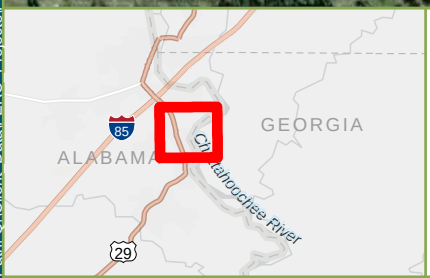
PN: 534039.01

Parcel 031A





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

Drawn By:	Date Drawn:	Checked By:	Date Checked:
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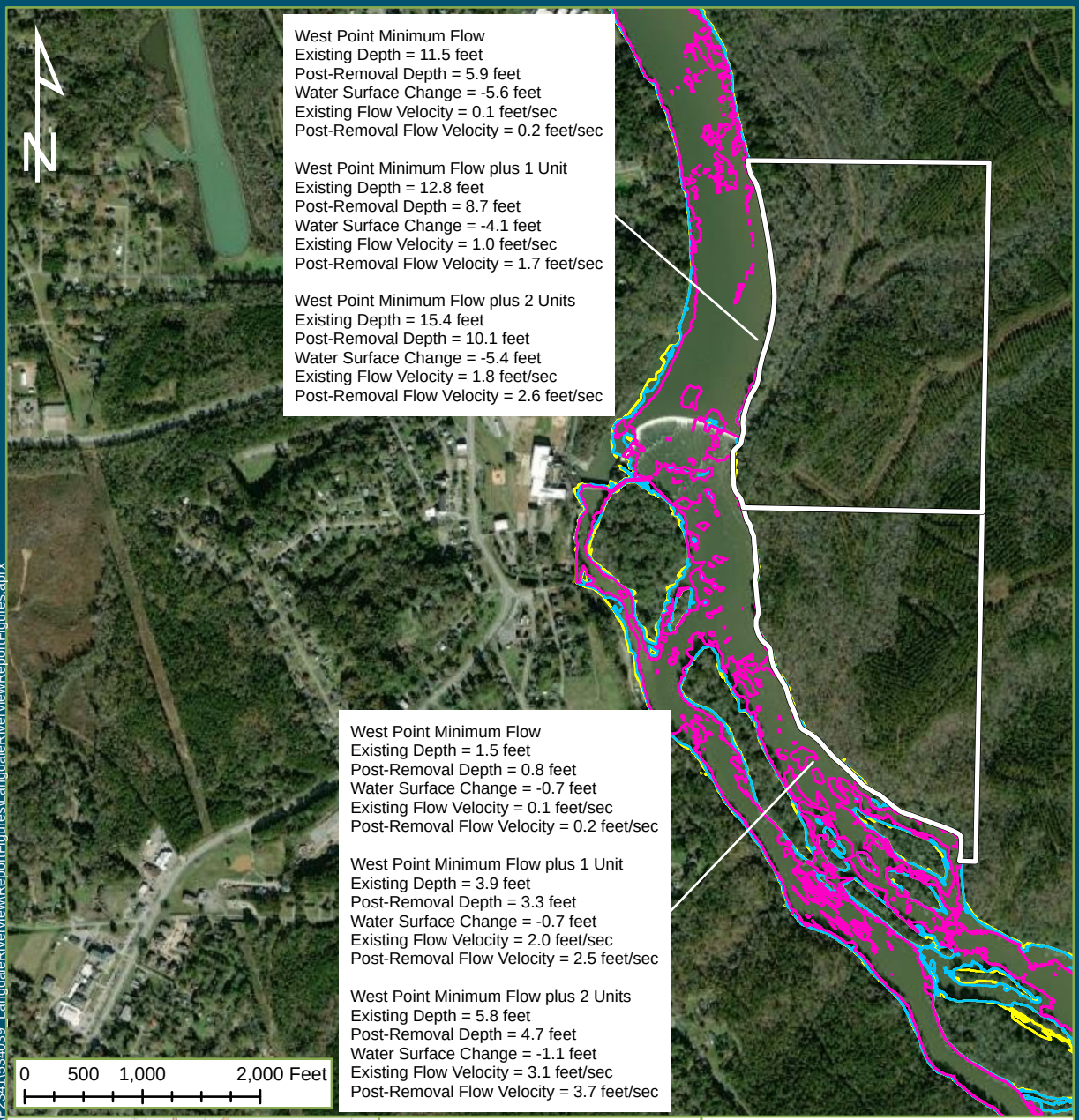
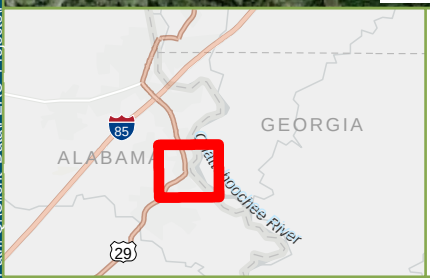
Parcel 031B





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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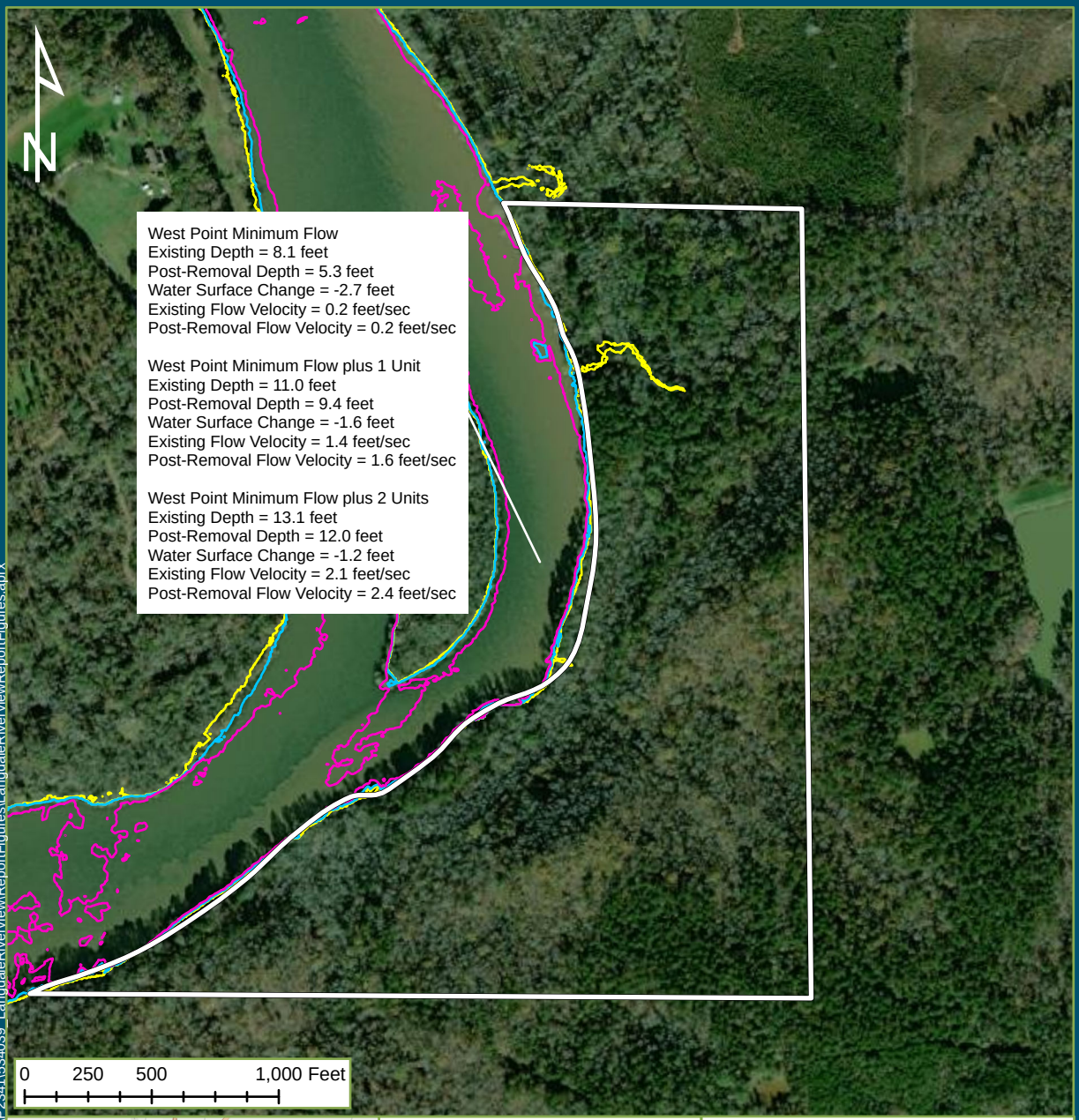
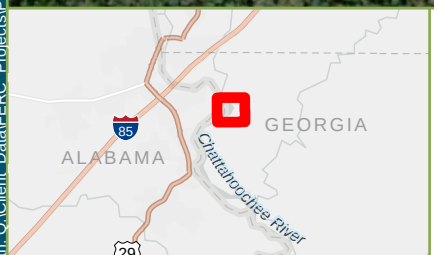
PN: 534039.01

Parcel 032





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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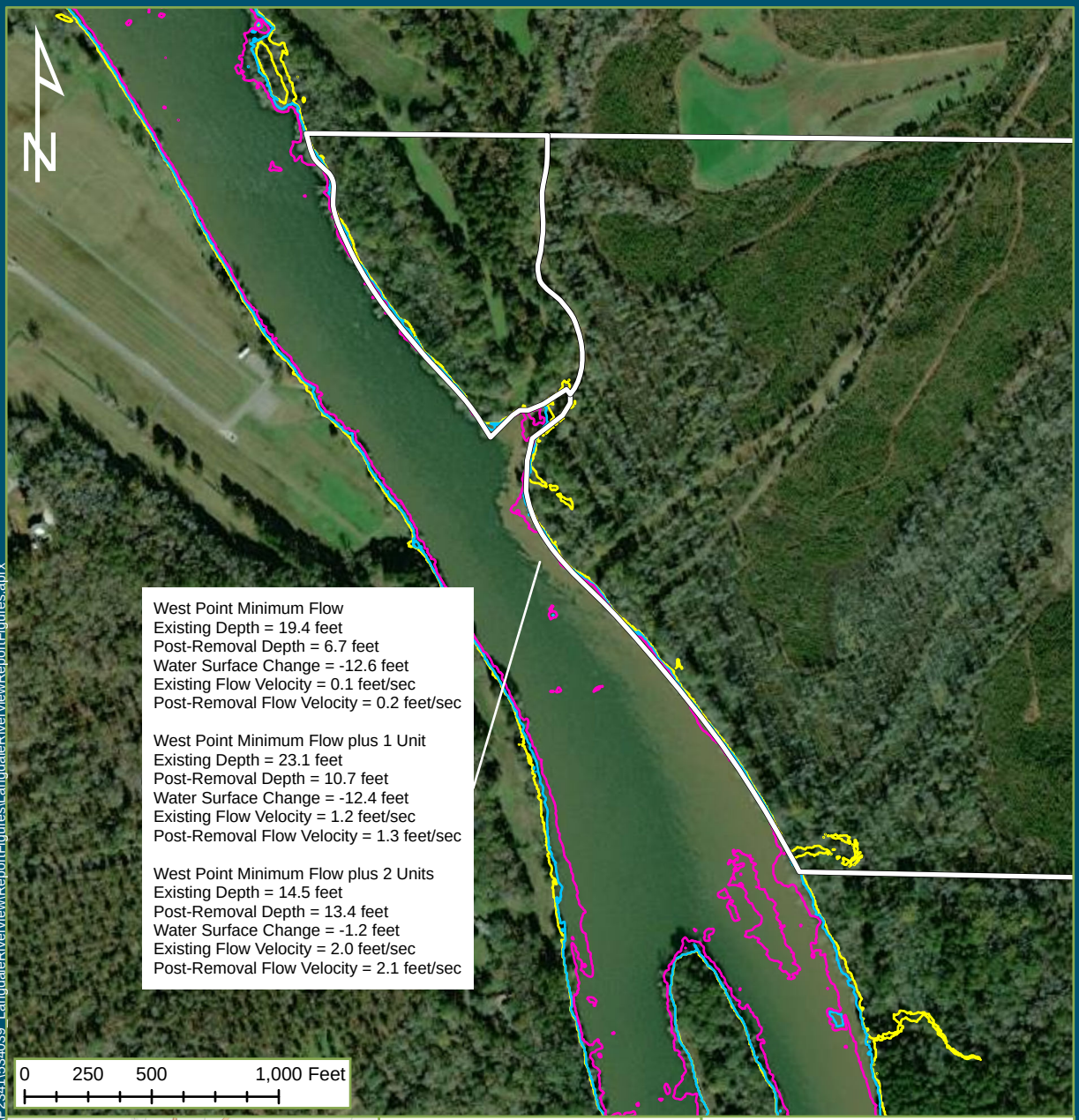
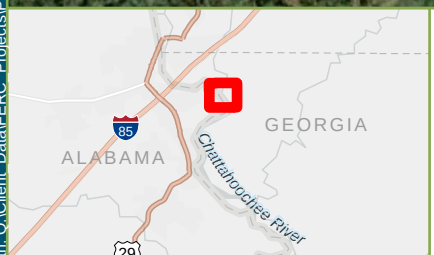
Parcel 033





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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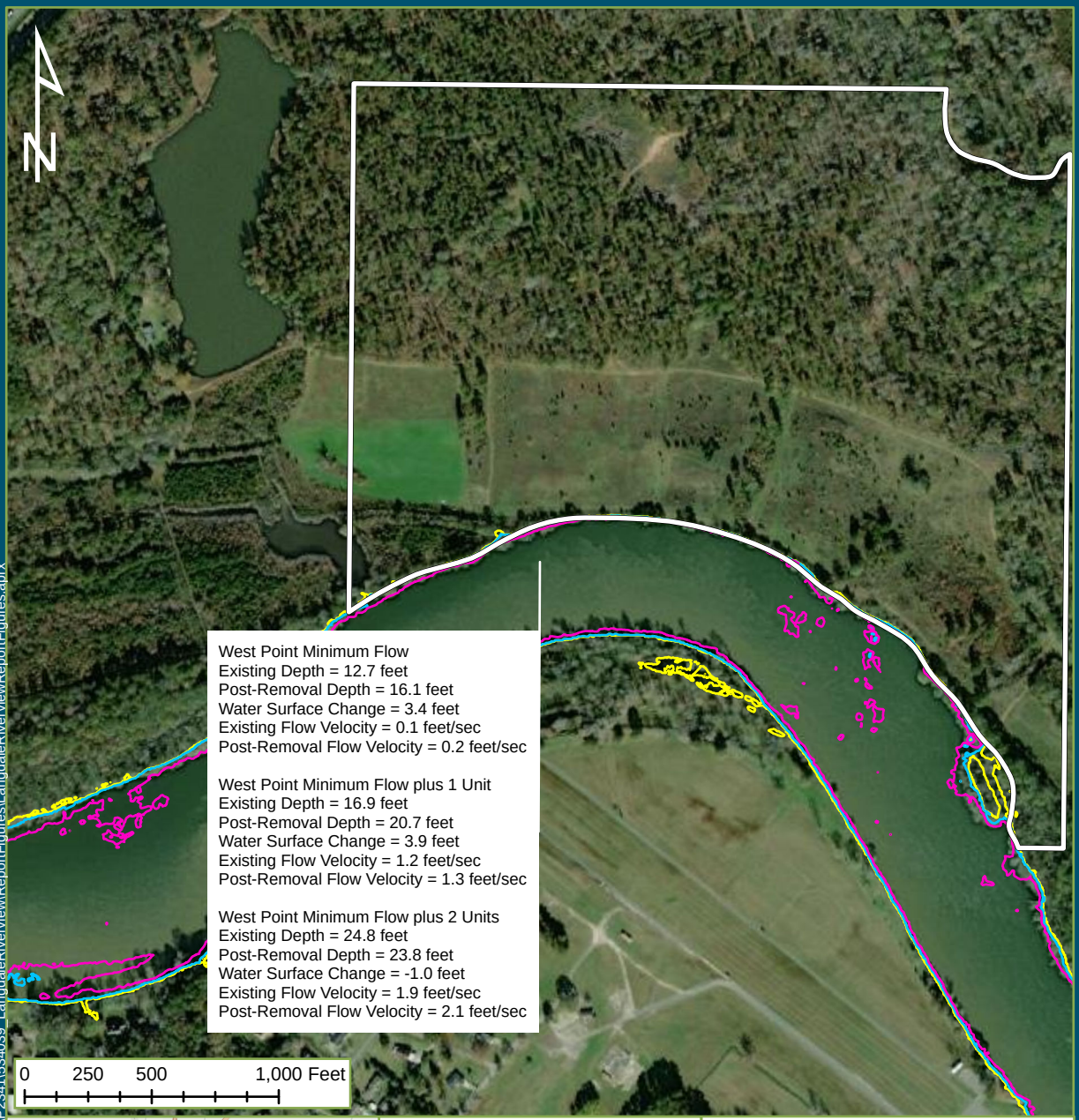
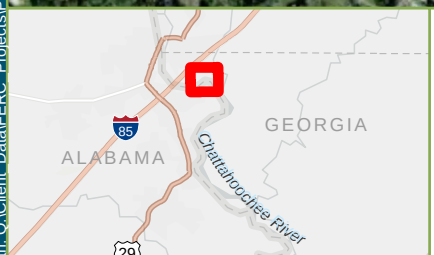
Parcel 034





Legend

- Property Boundary
- Base Flow Inundation Boundary
- Base Flow +1 Inundation Boundary
- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

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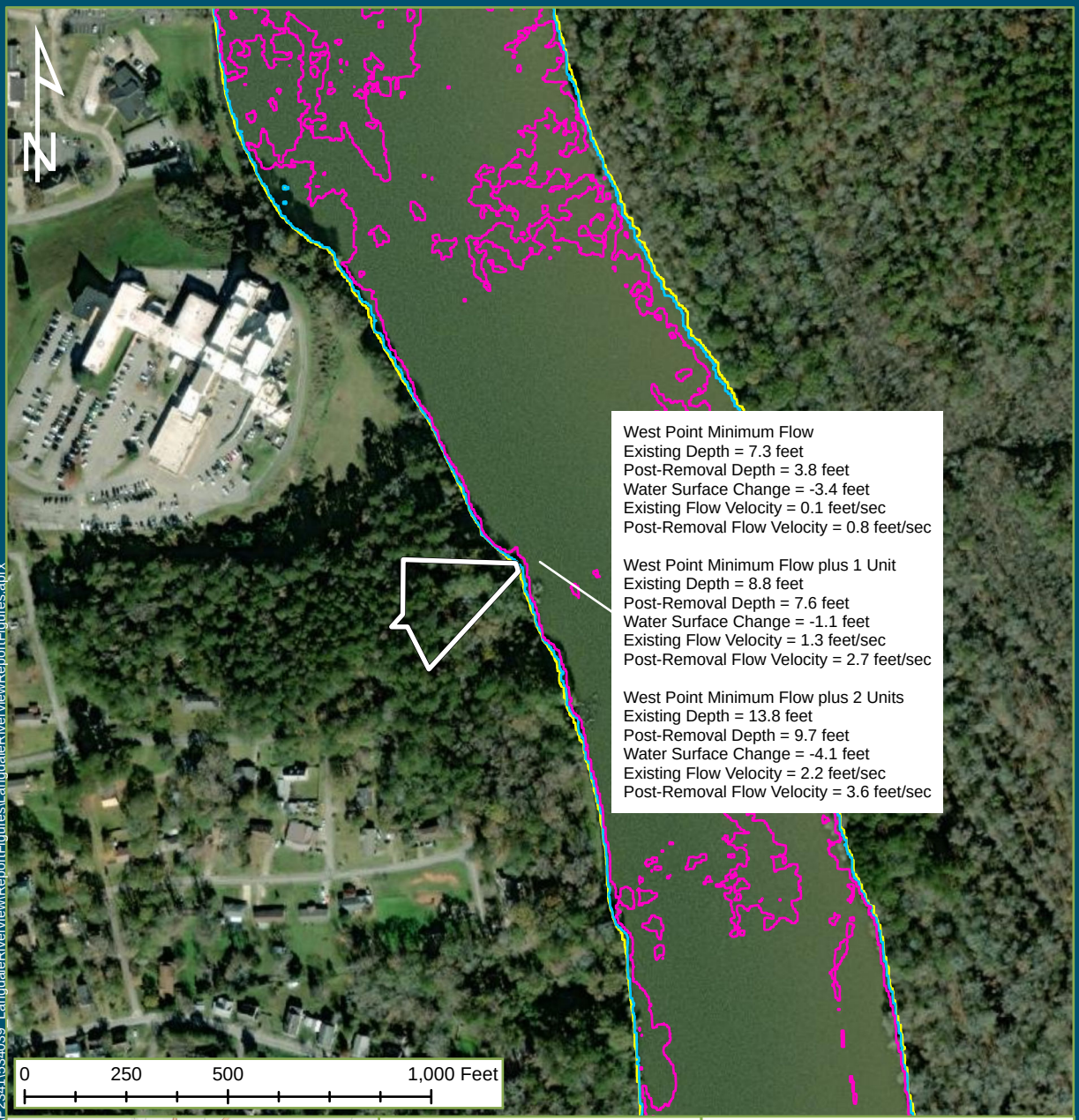

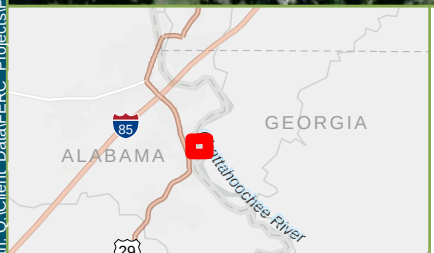

Legend

- Property Boundary
- Base Flow Inundation Boundary
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- Base Flow +2 Inundation Boundary

Georgia Power

Langdale, Georgia

Drawn By:	Date Drawn:	Checked By:	Date Checked:
ADY	05-20-2022	KPN	05-20-2022

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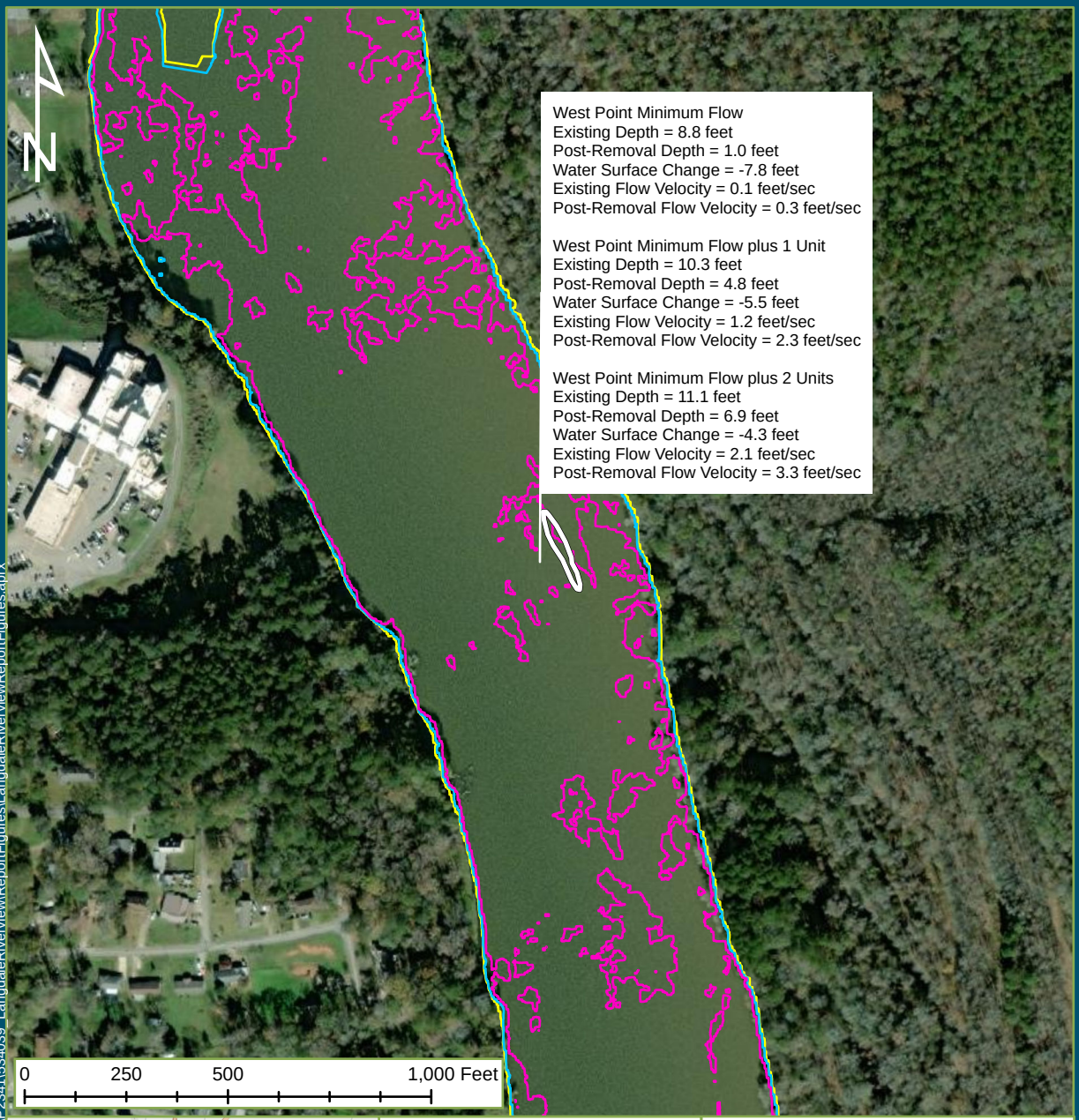
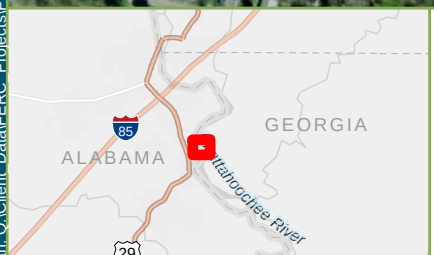
PN: 534039.01

Parcel 036





Legend

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Georgia Power
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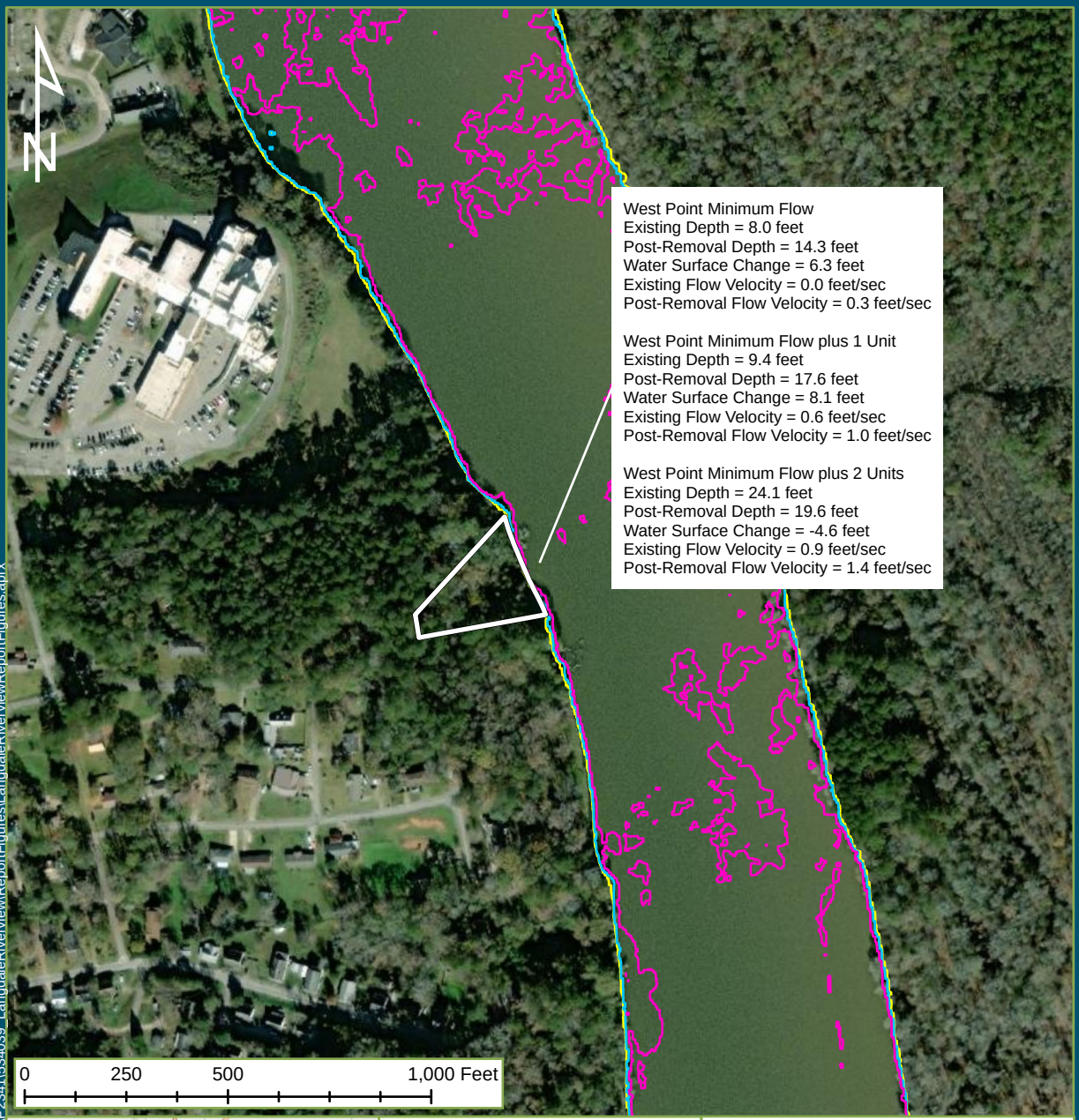
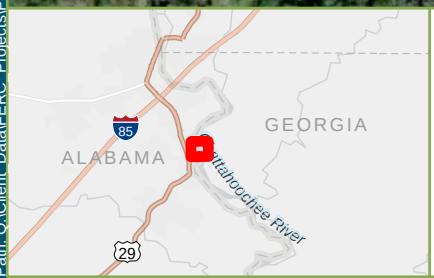
PN: 534039.01

Parcel 037





Legend

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Georgia Power
Langdale, Georgia

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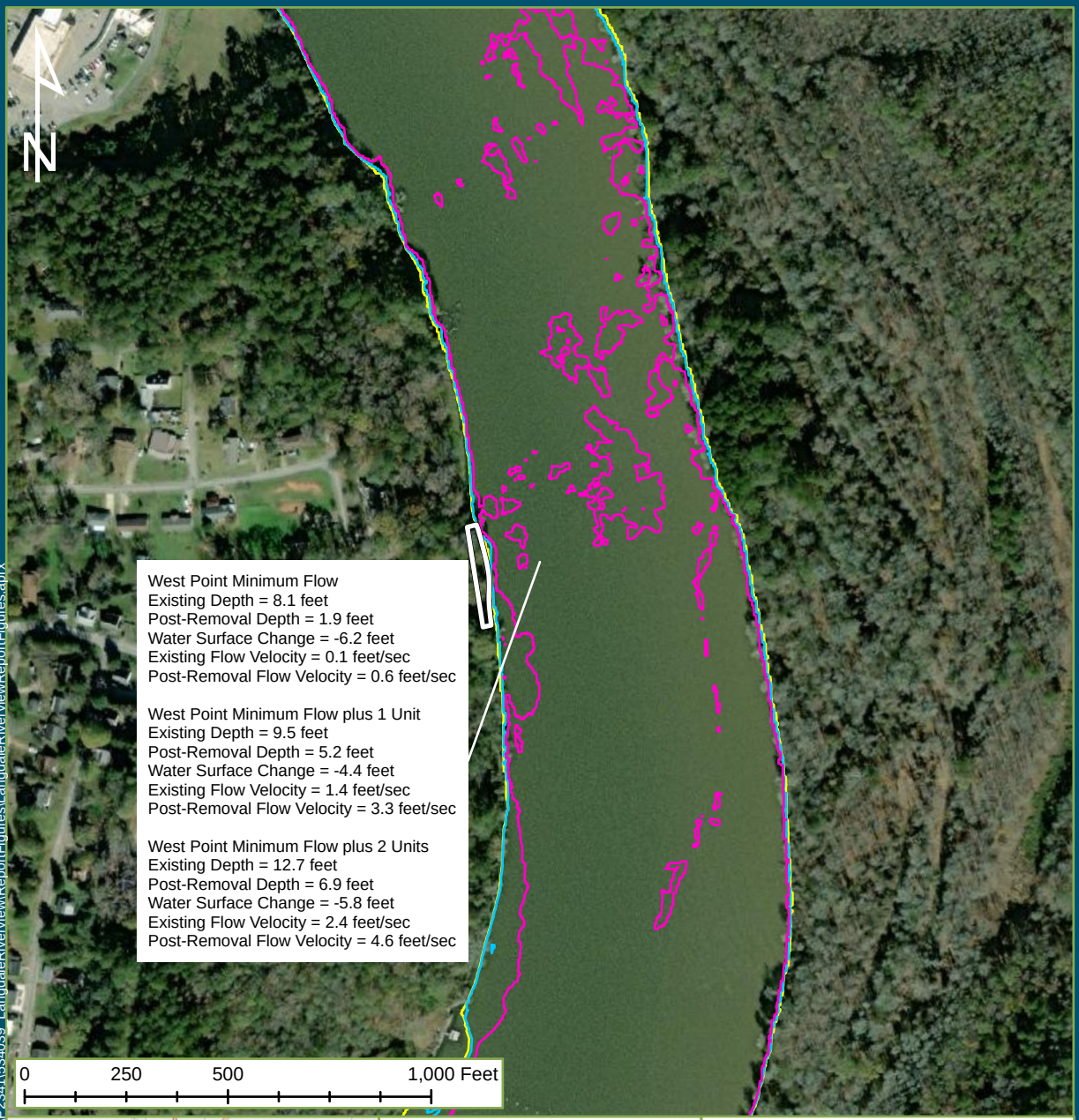
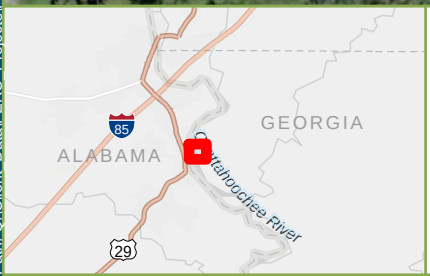
PN: 534039.01

Parcel 039





Legend

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Georgia Power

Langdale, Georgia

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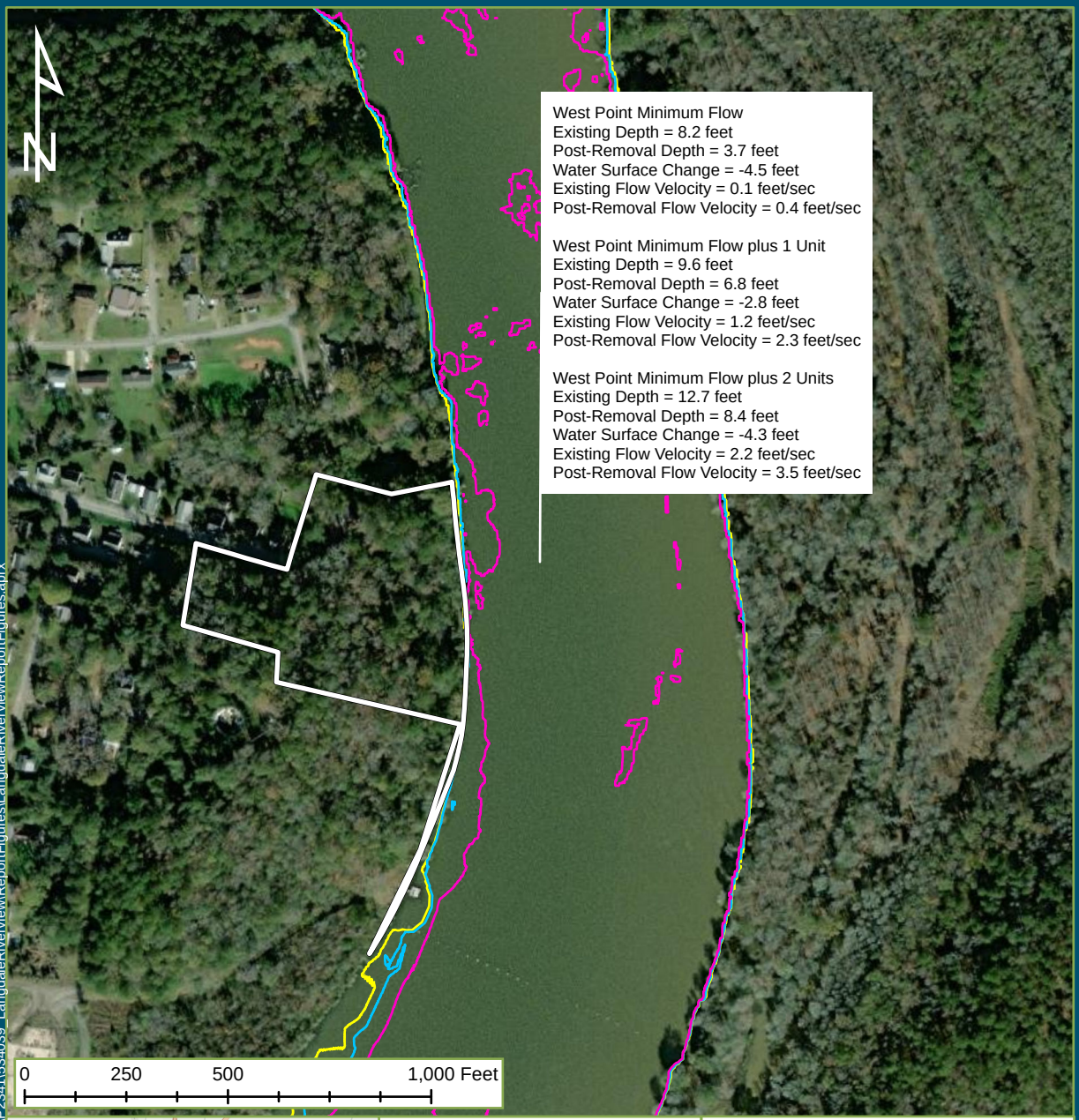
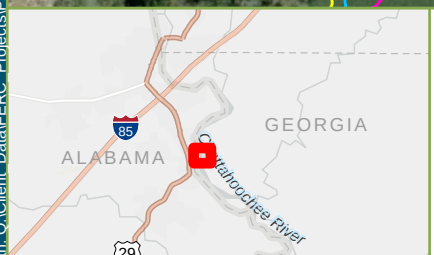
Parcel 040





Legend

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Georgia Power

Langdale, Georgia

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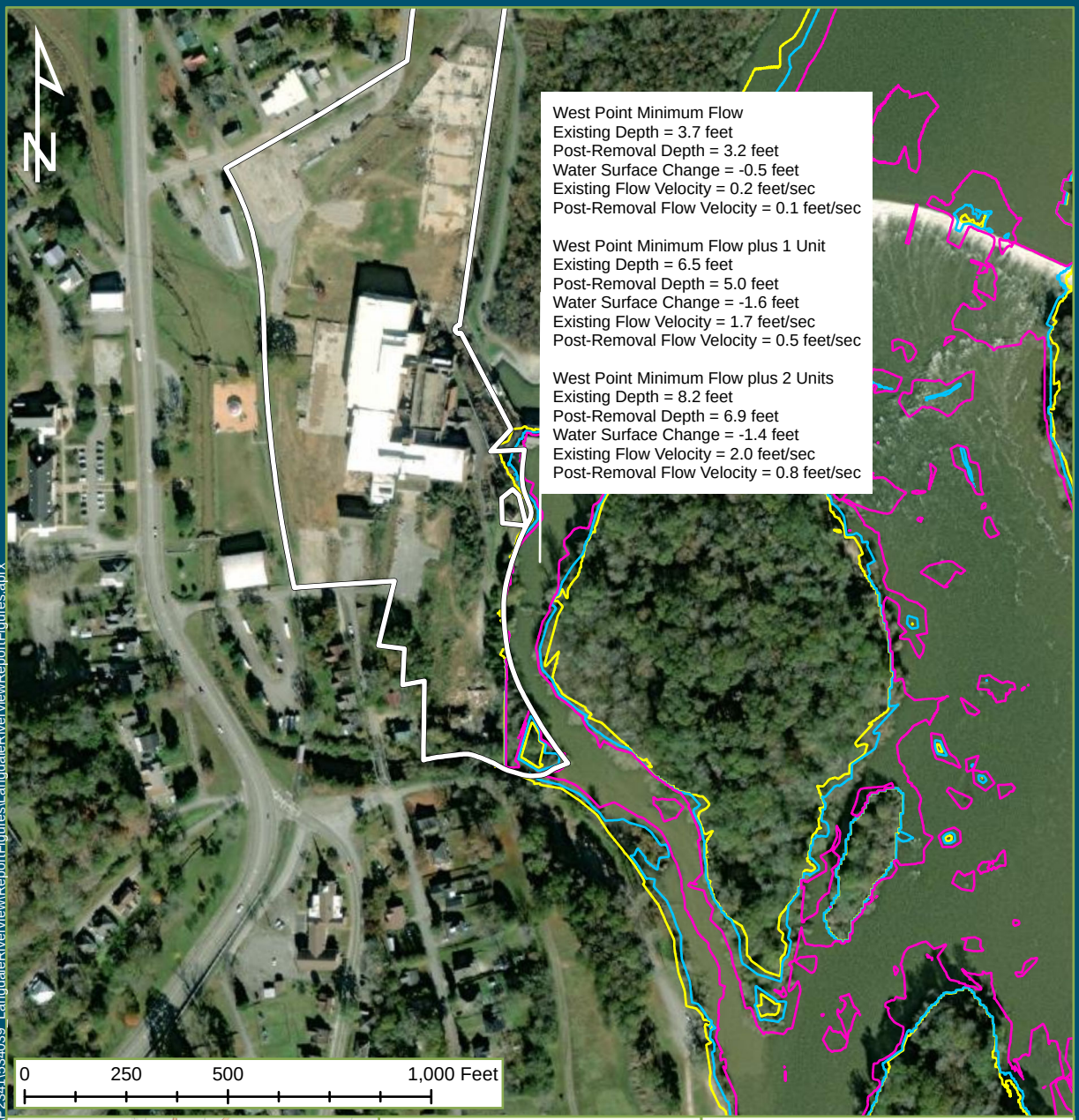
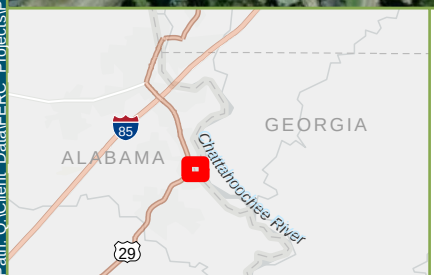
Parcel 043





Legend

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Georgia Power

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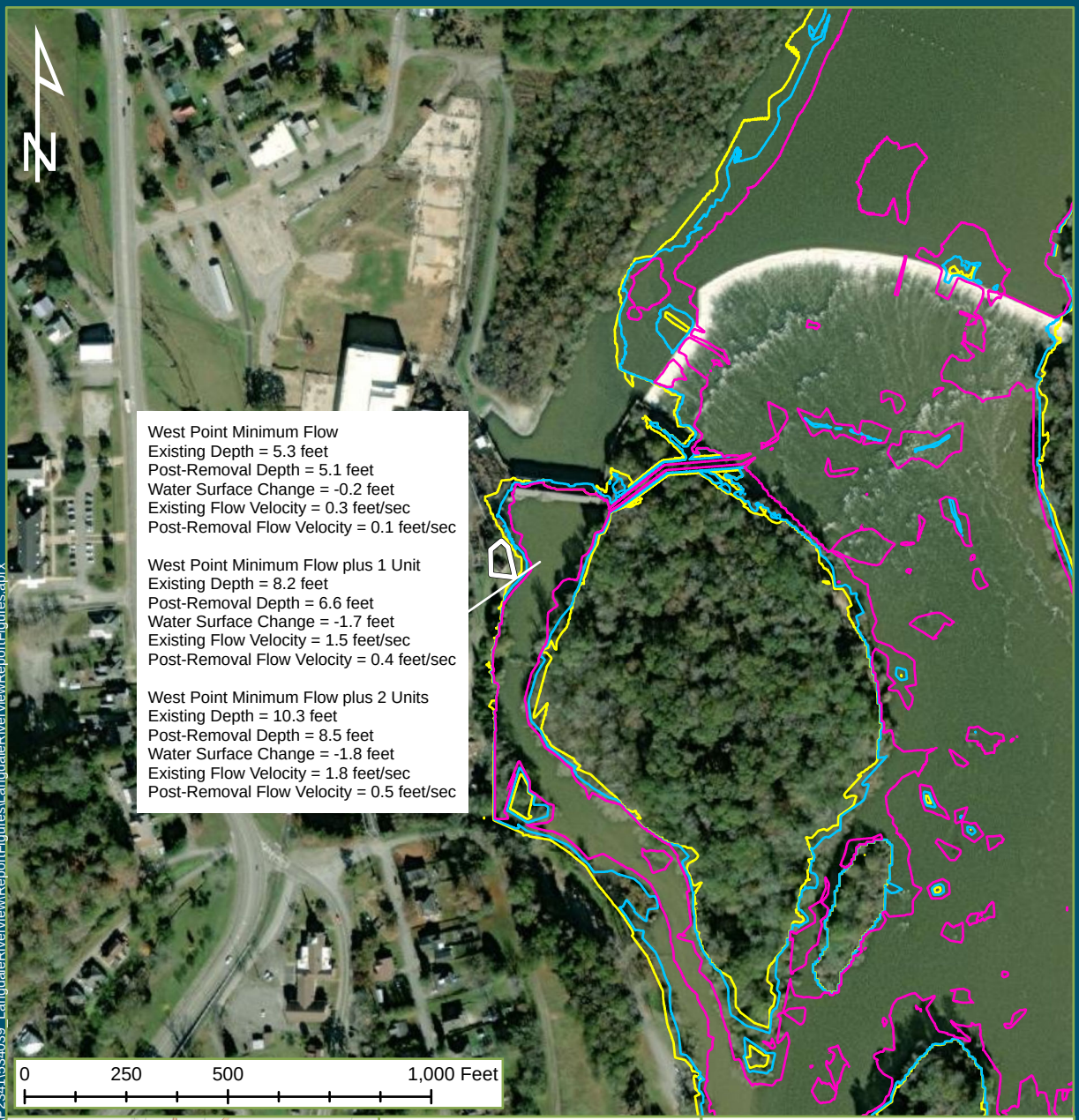
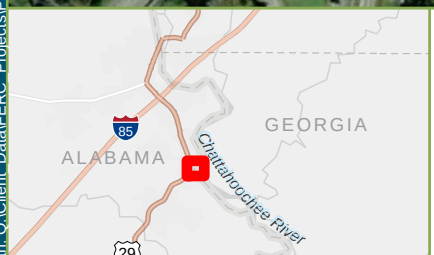
Parcel 044





Legend

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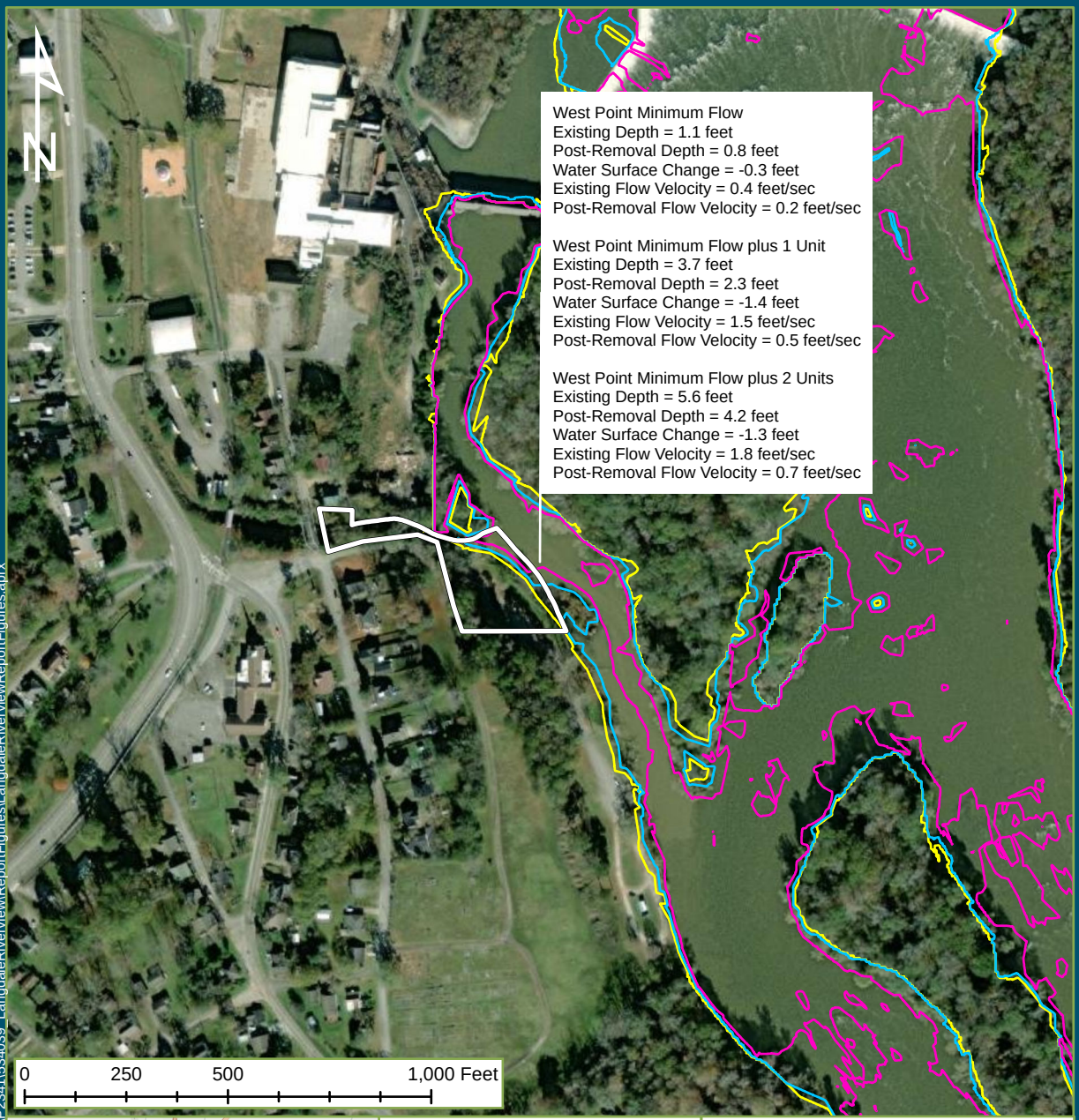
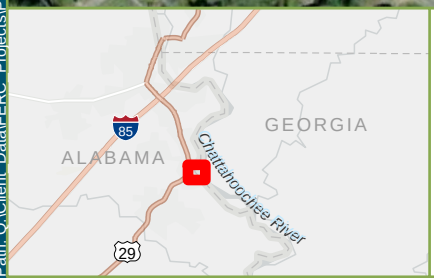
Parcel 045





Legend

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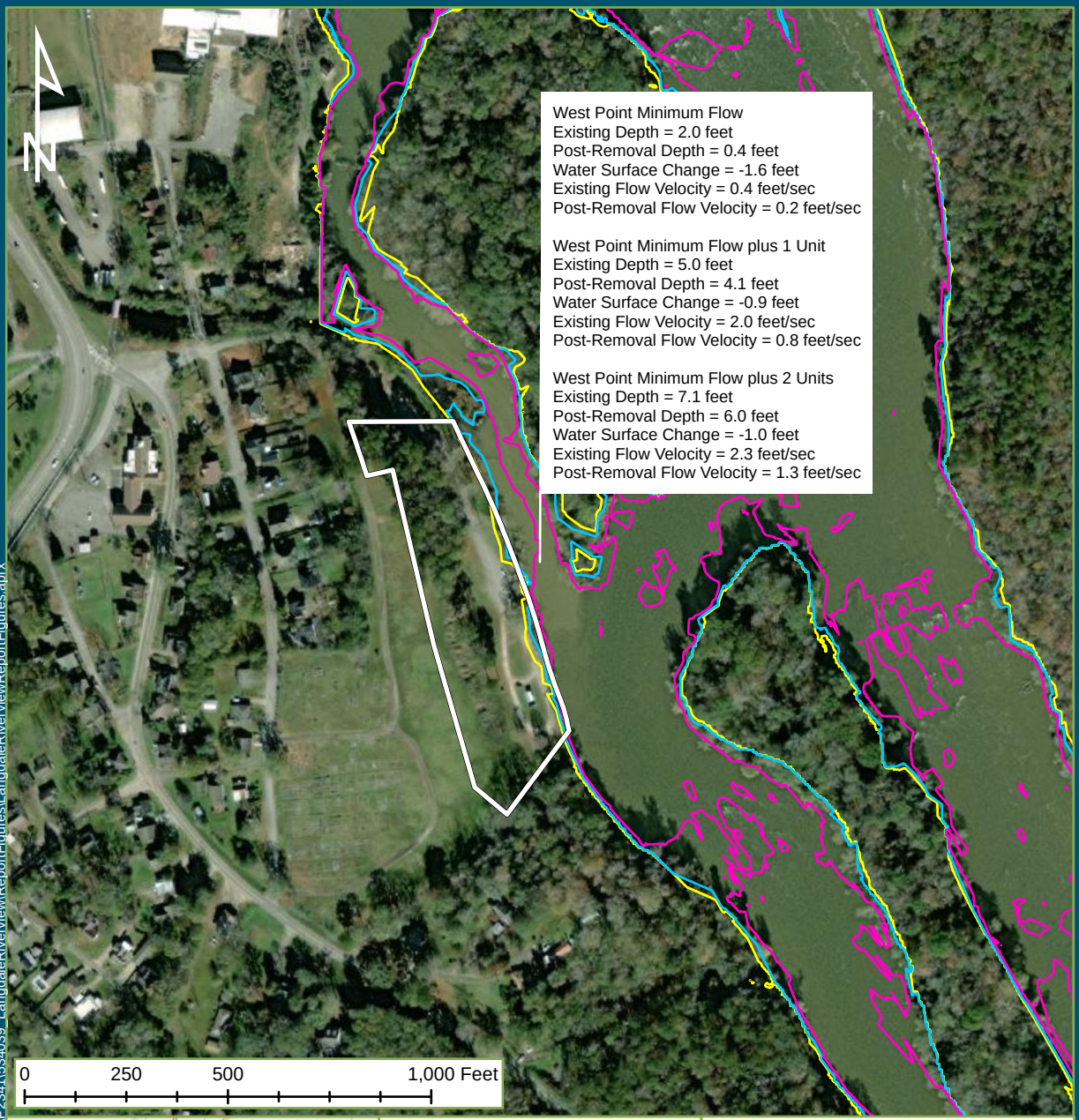
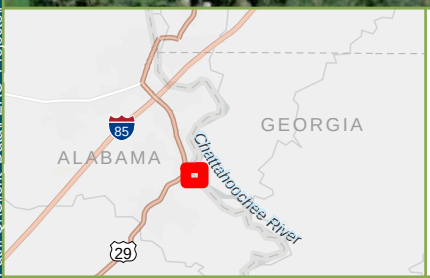
Parcel 048





Legend

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Georgia Power

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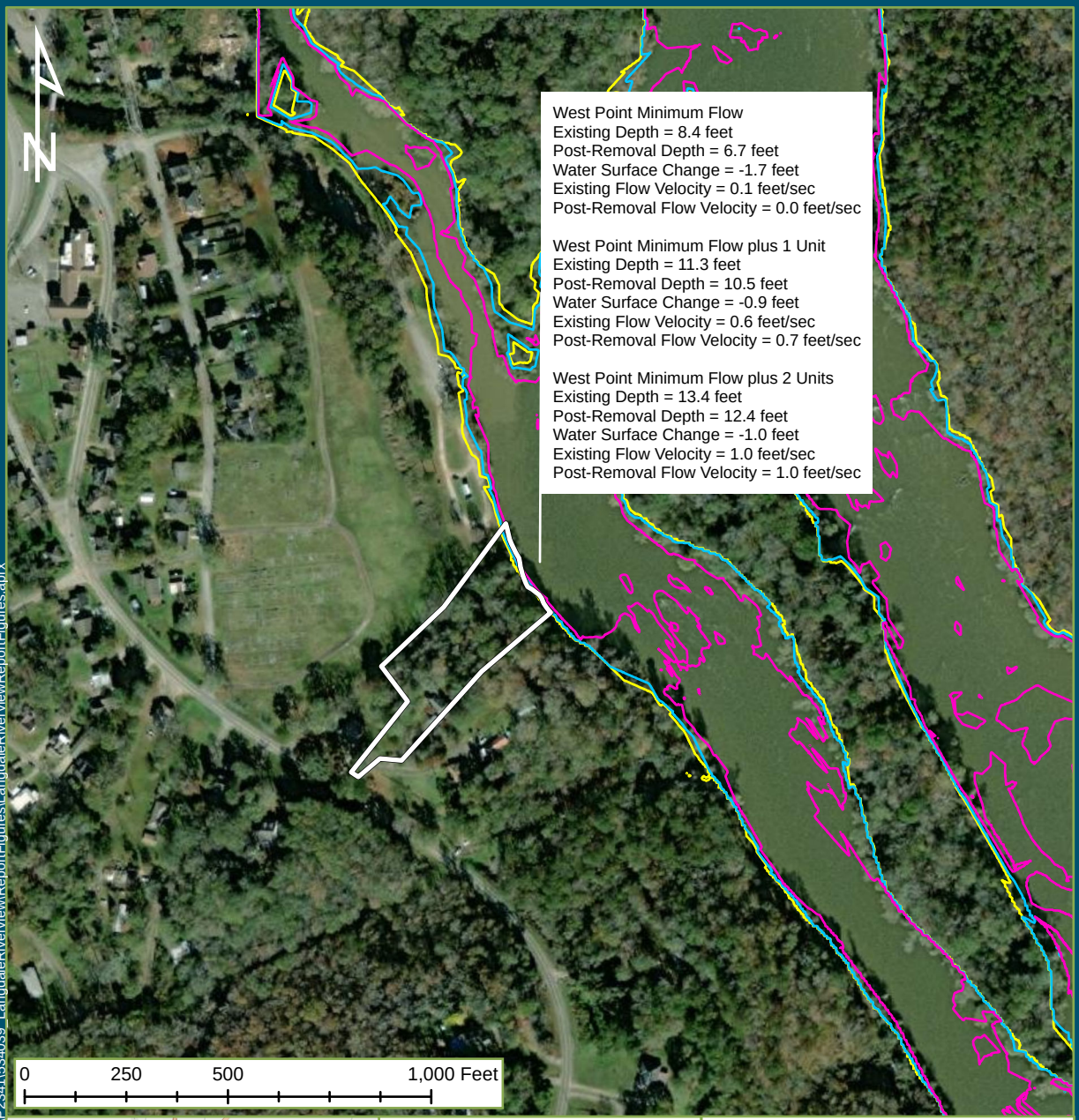
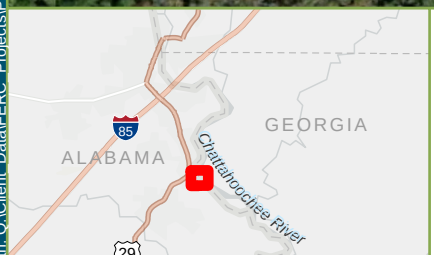
Parcel 049





Legend

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Georgia Power
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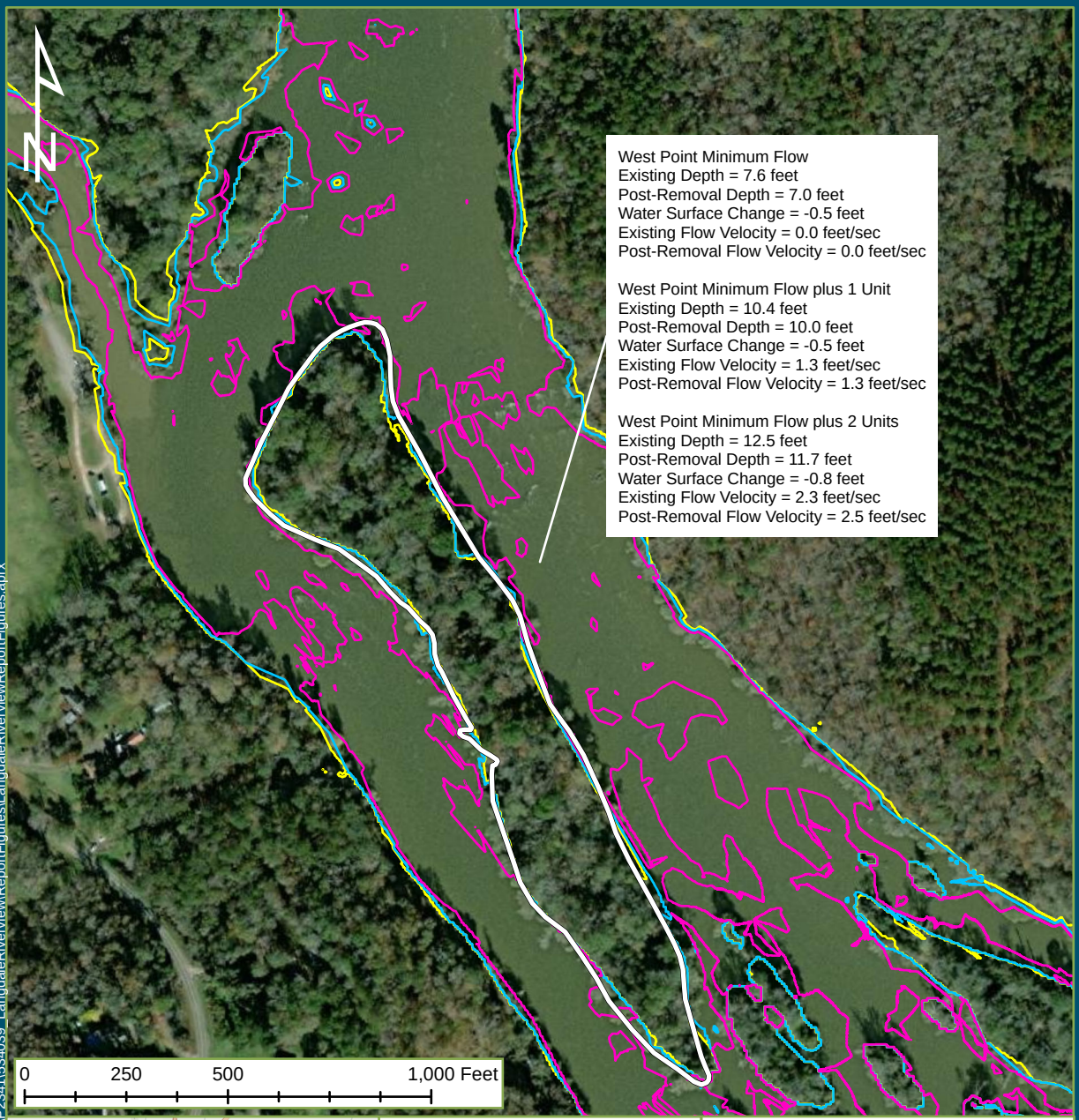
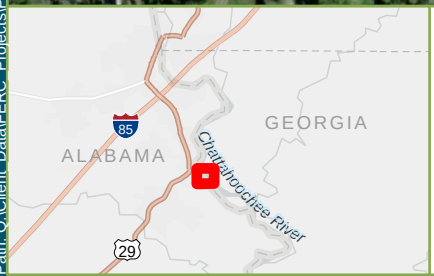
Parcel 050





Legend

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