

N.C. Wildlife Resources Commission

Re-vegetation Work on Lake Gaston

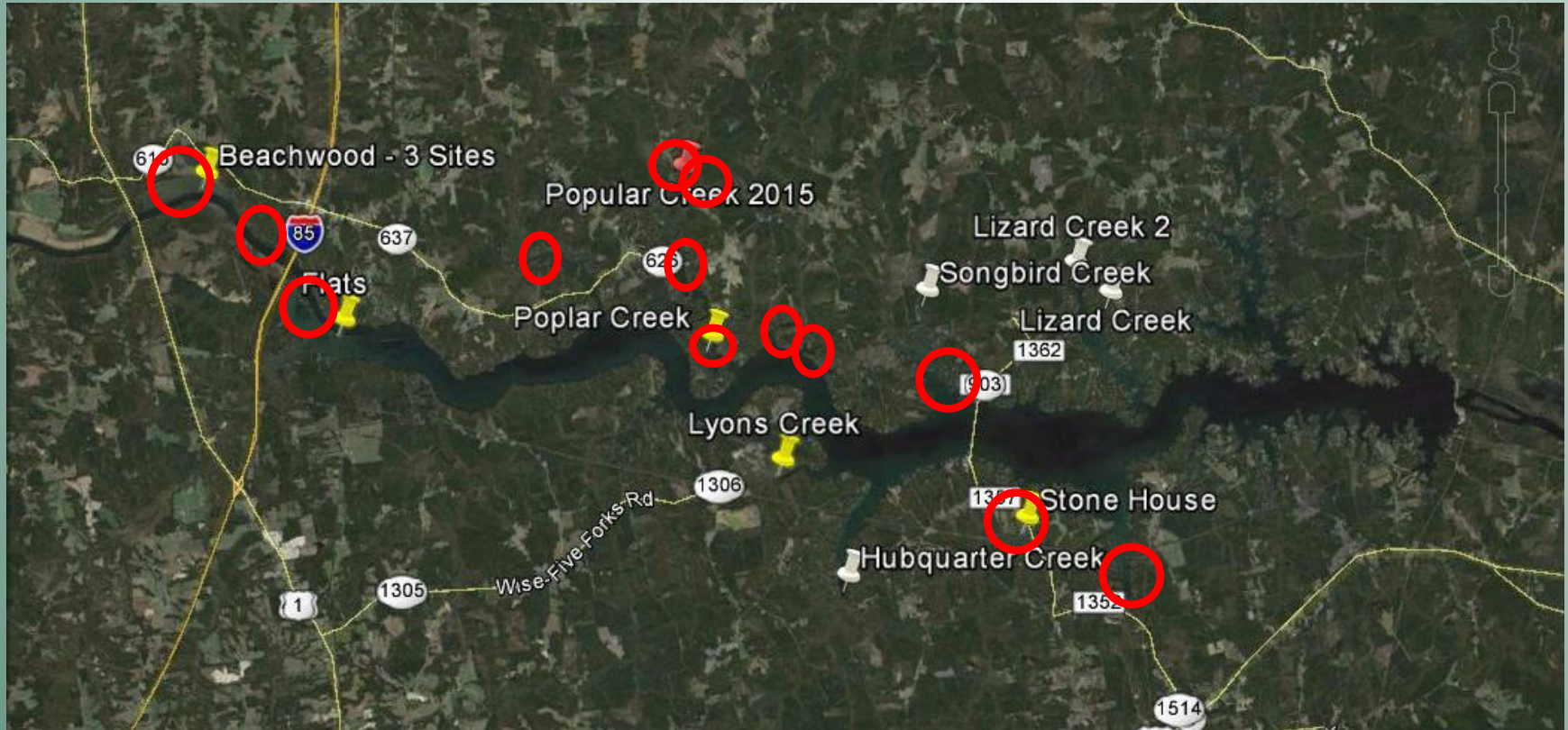


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Mark Fowlkes

Piedmont Aquatic Habitat Coordinator

2019 Re-vegetation Work



- Built 2 exclosures, repaired 7 exclosures
- Planted vegetation at 13 sites
- Maintained and planted existing cages
- Removed 1 cage



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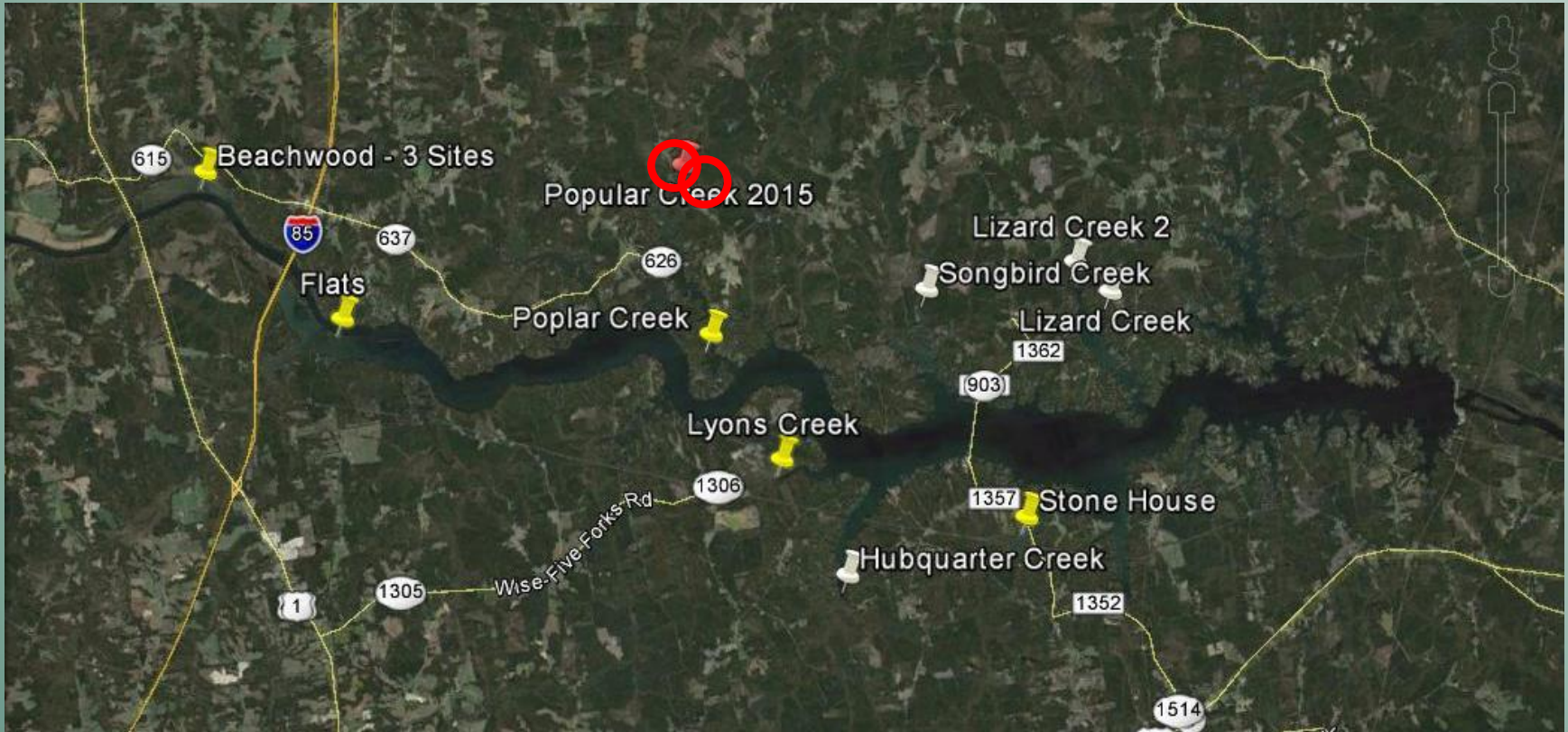
Volunteer Hours

	2015	2016	2017	2018	2019
LGA	250	266	255	136	194
NCSU	174	199	202	168	134
NCWRC	163	220	306	132	149
VDGIF	16	24	16	11	16



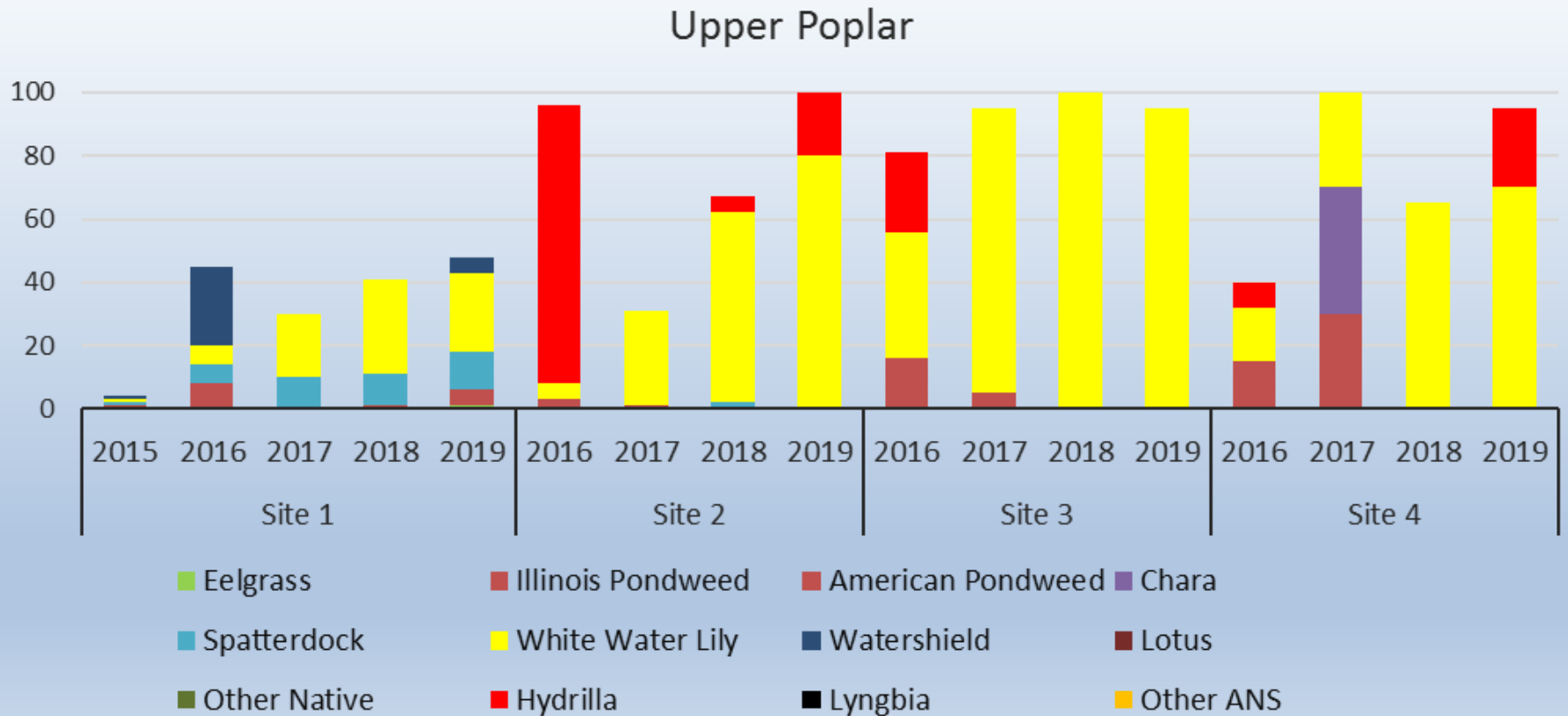
2019 Re-vegetation Work

Upper Poplar – East & West Coves



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Upper Poplar



Upper Poplar Creek – Exclosure 1

2015



2016



2017



2018



Upper Poplar Creek – Exclosure 1

2018



2019



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Upper Poplar Creek – Exclosure 3

2016



2017



2018



2019



Upper Poplar Creek – East Cove

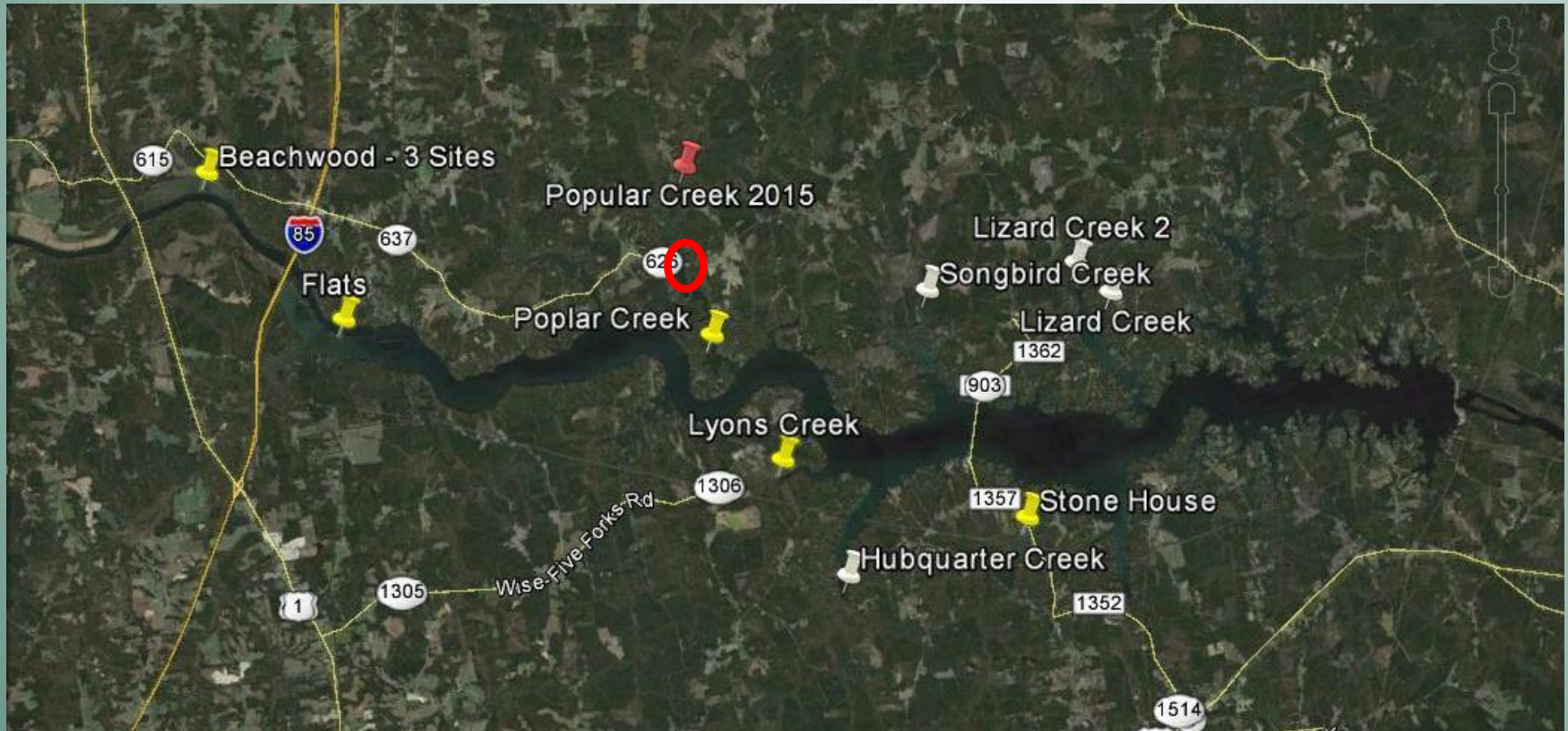
Unprotected planting not as successful



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2019 Re-vegetation Work

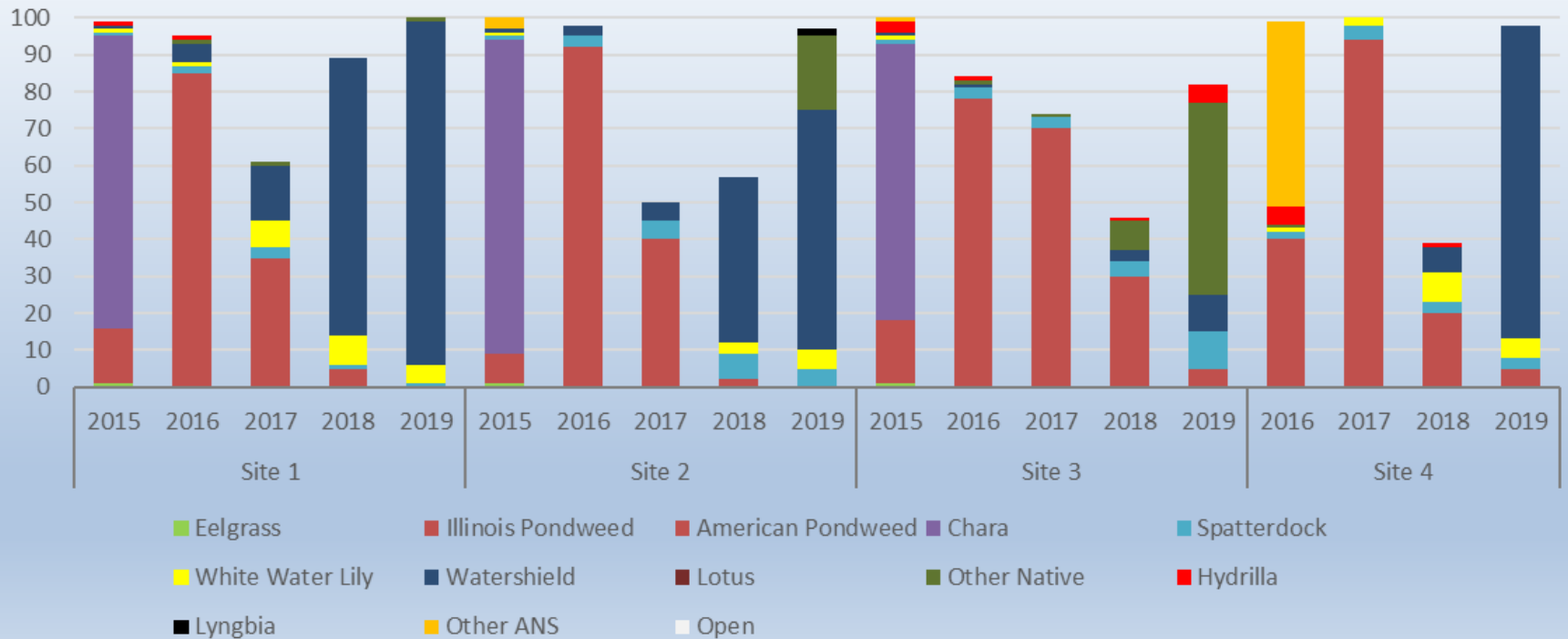
Lower Poplar



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Lower Poplar

Lower Poplar



Lower Poplar Creek -exclosure 3

2014



2015



2016



2017



Lower Poplar Creek - Exclosure 3

2018



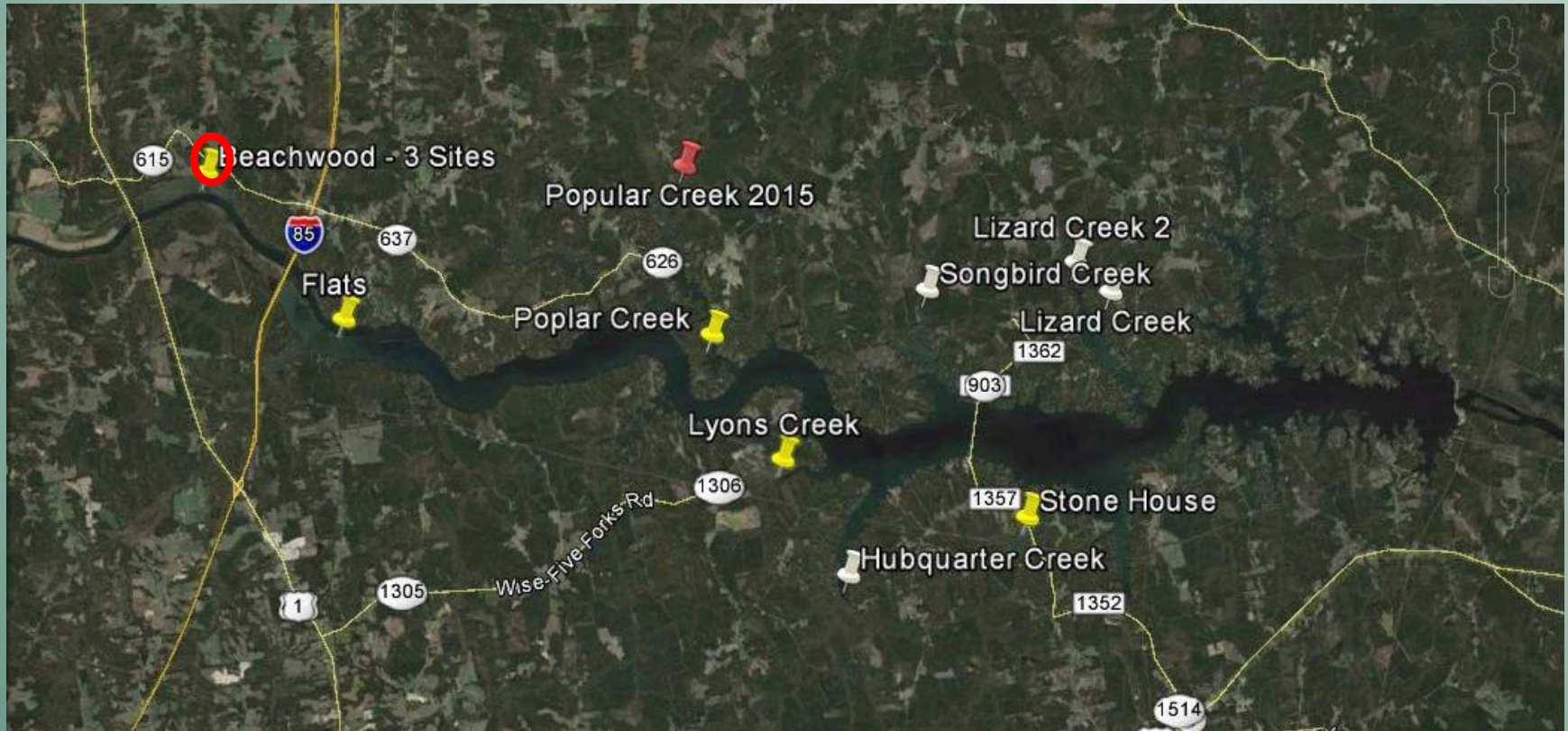
2019



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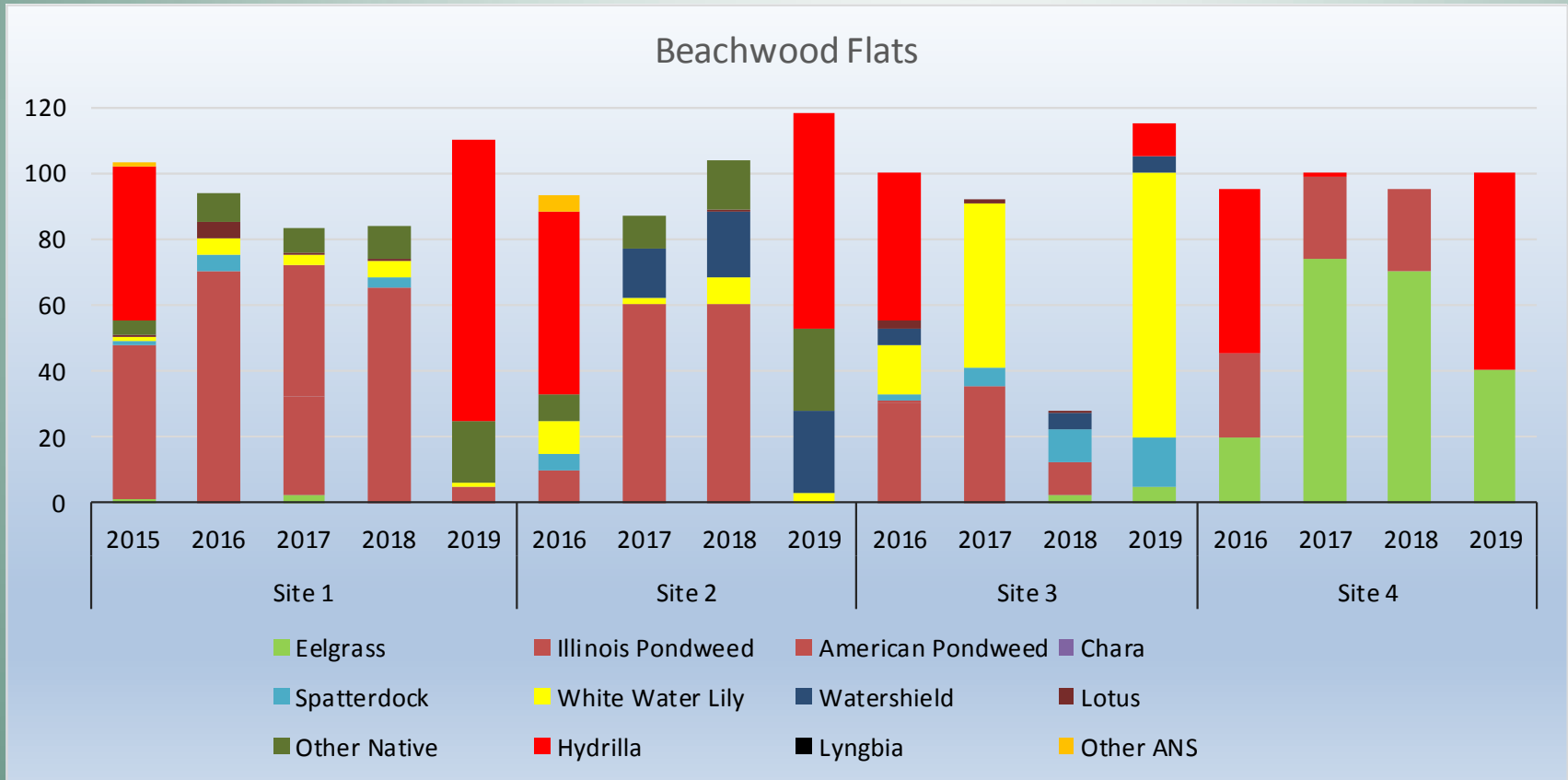
2019 Re-vegetation Work

Beachwood Flats



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Beachwood Flats



Beachwood Flats - Exclosure 1

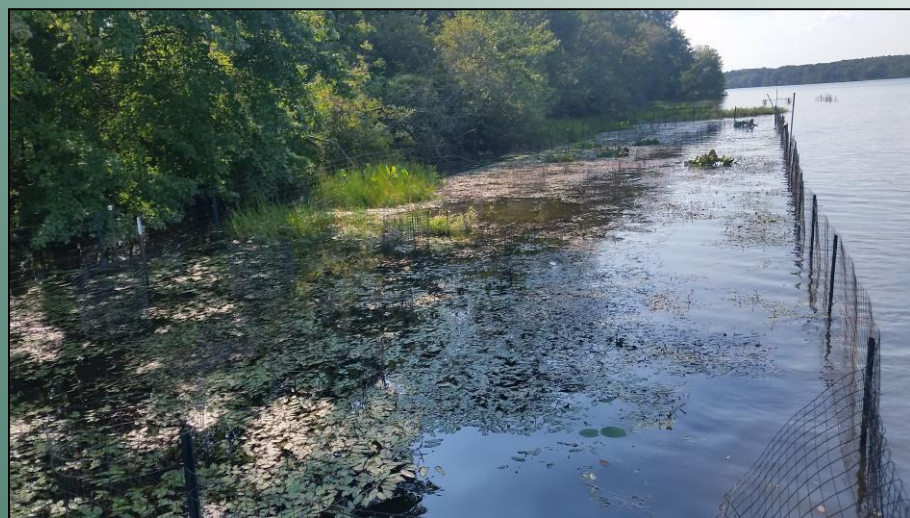
2014



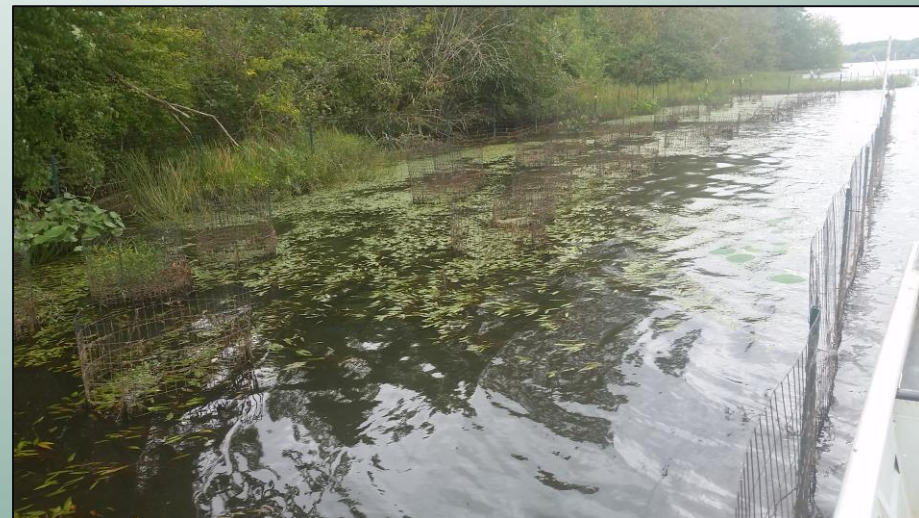
2015



2016



2017



Beachwood Flats - Exclosure 1

2018



2019



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Beachwood Flats

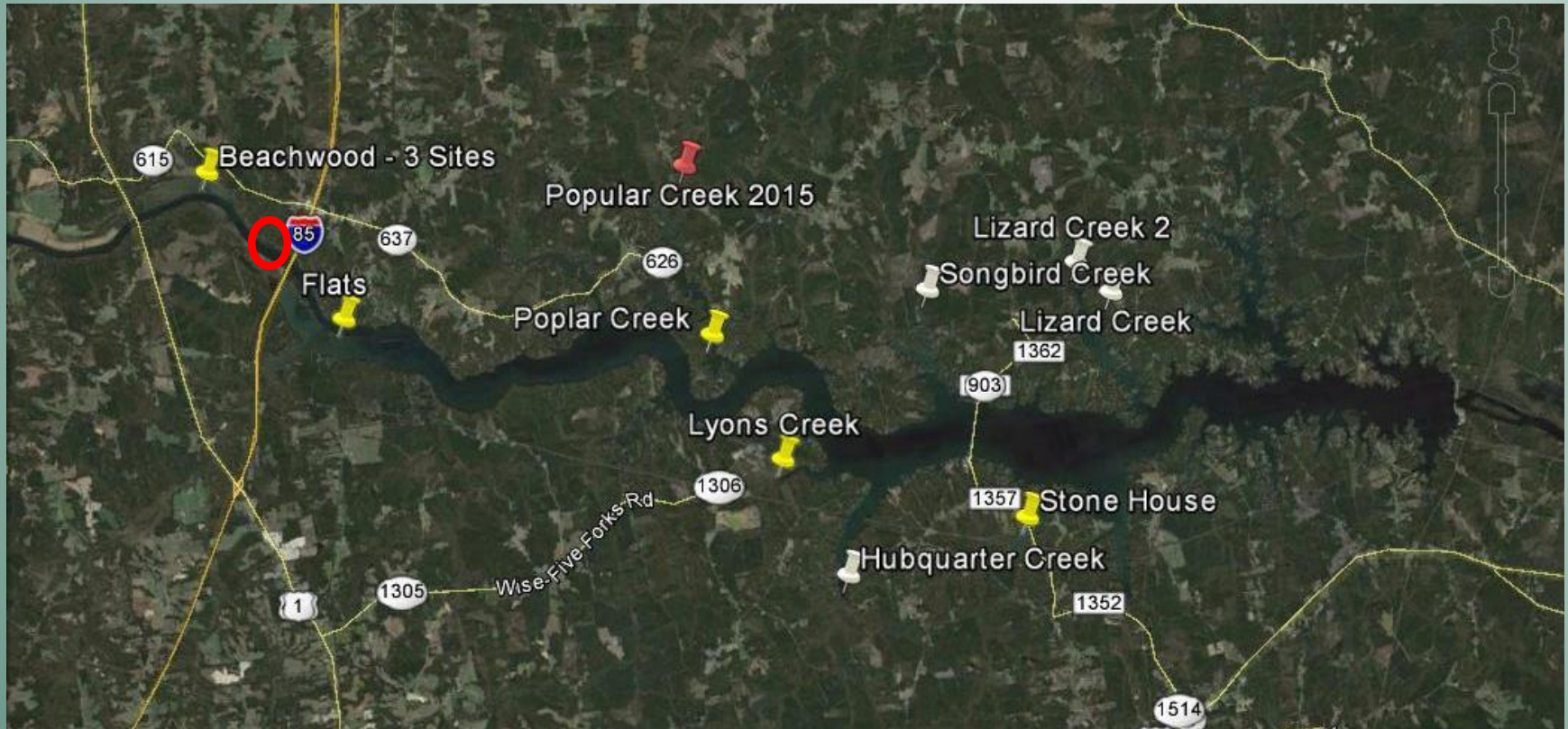
Expansion away from Exclosures



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2019 Re-vegetation Work

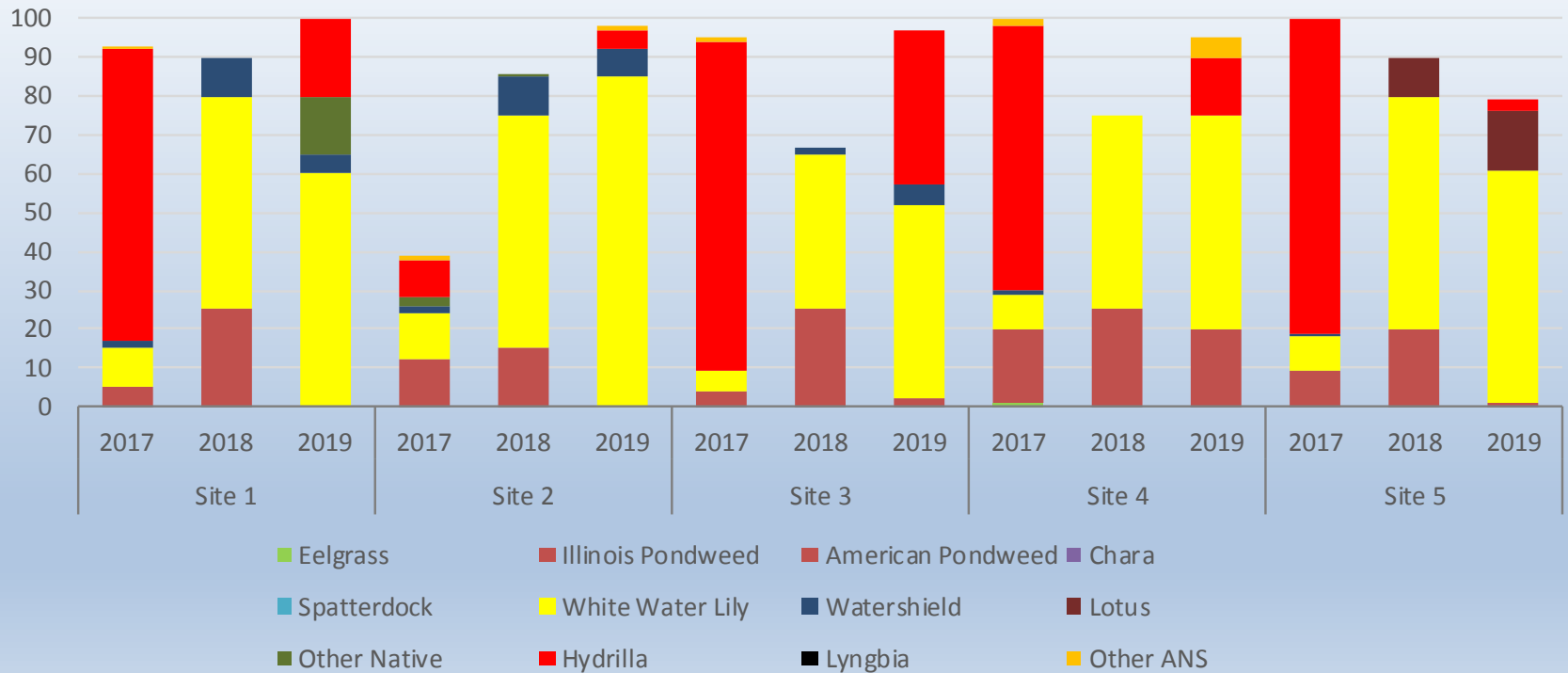
I-85



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I-85

I-85



I-85

Exclosure 1 - 2017



Exclosure 1 - 2018



Exclosure 1 - 2019



I-85

Exclosure 4 - 2017



Exclosure 4 - 2018

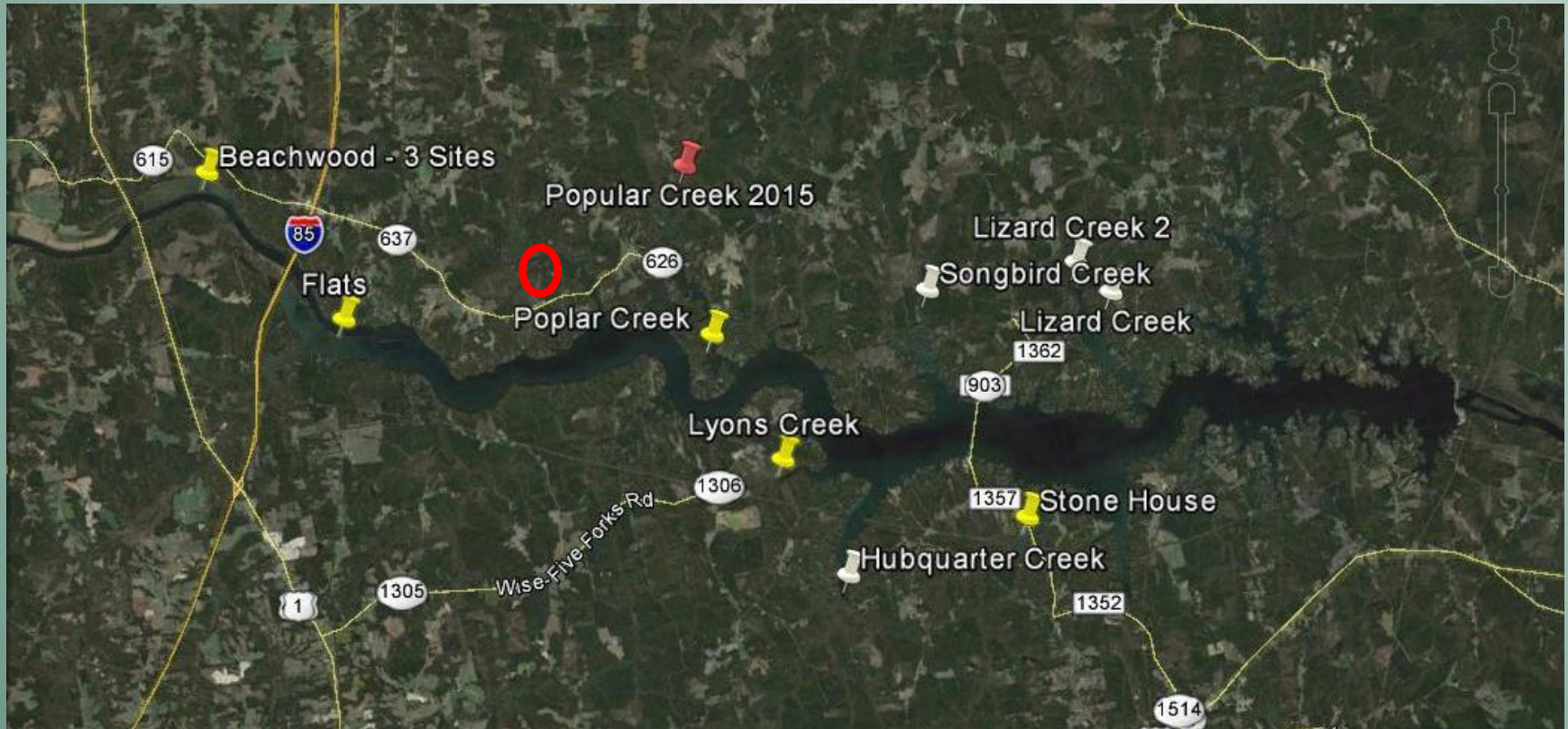


Exclosure 4 - 2019



2019 Re-vegetation Work

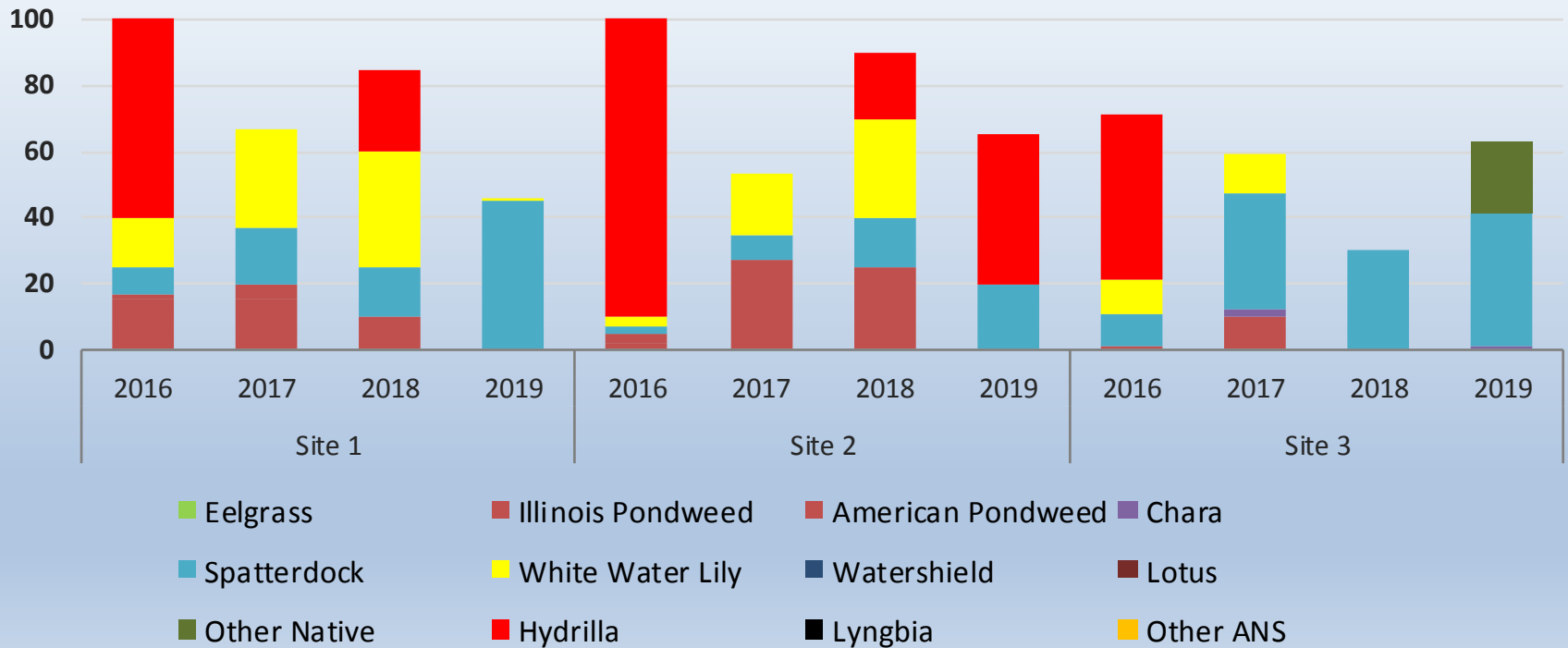
Great Creek



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Great Creek

Great Creek



Great Creek - Exclosure 1

2016



2017



2018



2019



Great Creek - Exclosure 2

2016



2017



2018

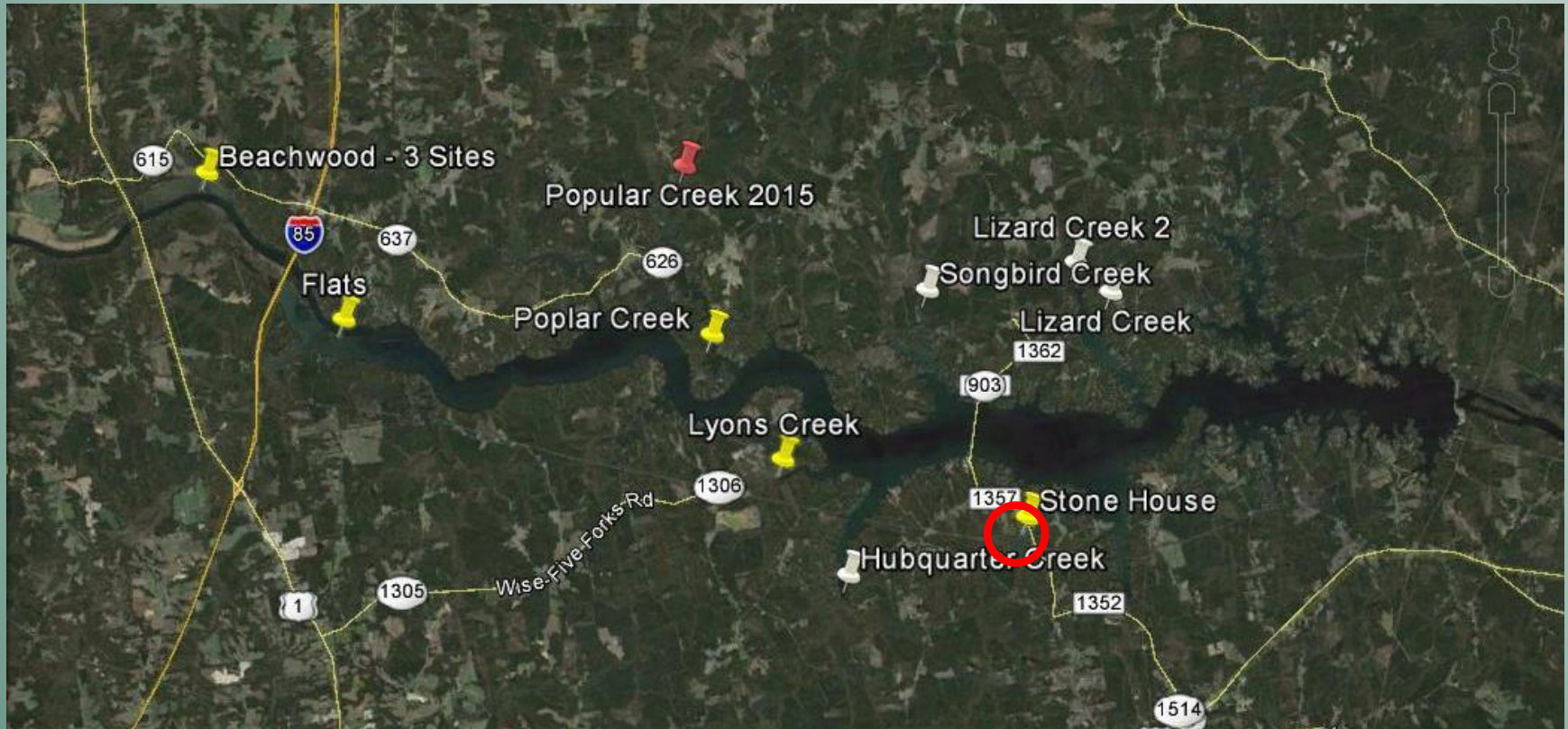


2019



2019 Re-vegetation Work

Big Stonehouse



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Big Stone House 2019



Exclosure 3
15% Eelgrass



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2019 Summary

- Most vegetation doing well
- Hydrilla increased at Beachwoods Flats, I-85, Great Creek
- Expansion outside of exclosures
 - Spatterdock in Beachwoods Flats, Great Creek, Lower Poplar
 - Spatterdock, watersheild, lily, etc. in Big Stone House
- Coontail established in many exclosures
- Plants in coves without exclosures did not fair as well as ones with exclosures.



Proposed 2020 Re-vegetation

- Spring Survey
- **Revegetation effort June 8th – 12th**
- **Maintenance at existing** re-vegetation sites
 - Including increasing height of existing exclosures
- **Plant outside of cages** (Little Stone House, Still House, Kings Branch, Great Creek, Upper Poplar, Upper Flats)
- **Expand existing sites** (Beachwood Flats)



Proposed 2020 Re-vegetation

- **New Sites** - Eelgrass in lower lake
- Consider LGWCC treat exclosures at Beachwood to reduce competition with Hydrilla
- Fall Survey



Funding Sources

Lake Gaston Association



Lake Gaston
Weed Control
Council



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