Updates to the Tompkins County Unique Natural Area Inventory

“Batch 2” – November 2014

UNAs include one or more of the following characteristics

- designated area or preserve
- state designated wetland
- contains diverse flora or fauna
- rare or scarce plant or animals
- historical botanical or zoological importance
- geological importance
- important teaching site (e.g. meadow with a diverse array of common plants all in one place)
- old growth woods
- important birding site
- quality of plant or animal community
- recreational value
- scenic vista
- wilderness
- archeological or paleontological site
- cultural or historical importance
- urban greenspace

Previous UNA boundary delineation methods

- Field assessments
- Expert knowledge
- Historical records
- Second- and third-generation photocopies of low-resolution aerial imagery from 1990 and earlier
- Hand- delineated with marker and then transferred manually to GIS
- Limited GIS data

Guidelines for boundary updates

- Inclusion of National Wetlands Inventory
- Conform to edge of vegetation and/or land contours
- Inclusion of newly protected lands (e.g., nature preserves)
- Change in landcover since last field visit or aerial photo series (1995 or earlier, vs. 2009 imagery)

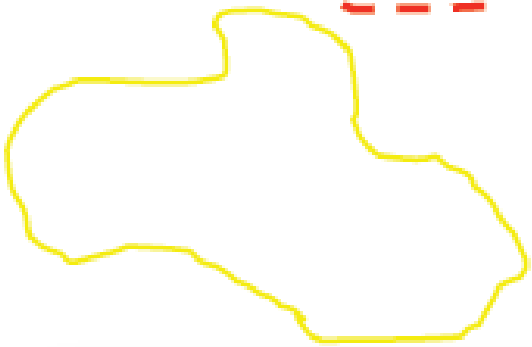
Total changes in new update

- Total acreage in revised set of “Phase II” UNAs = 12,112.03
- Total acreage in original set of “Phase II” UNAs = 11,525.76
- Total change in acreage in UNAs with “Batch 2” revision = +5.08%
- Addition of avian information for UNA sites, based on eBird dataset, 2000-2010
- Addition of herpefauna census, where available
- Addition of large mammal census data where available
- Updates of plan rarity statuses

Key to maps

- Original UNA boundary

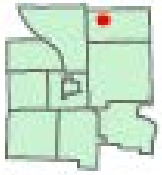
- Revised UNA boundary

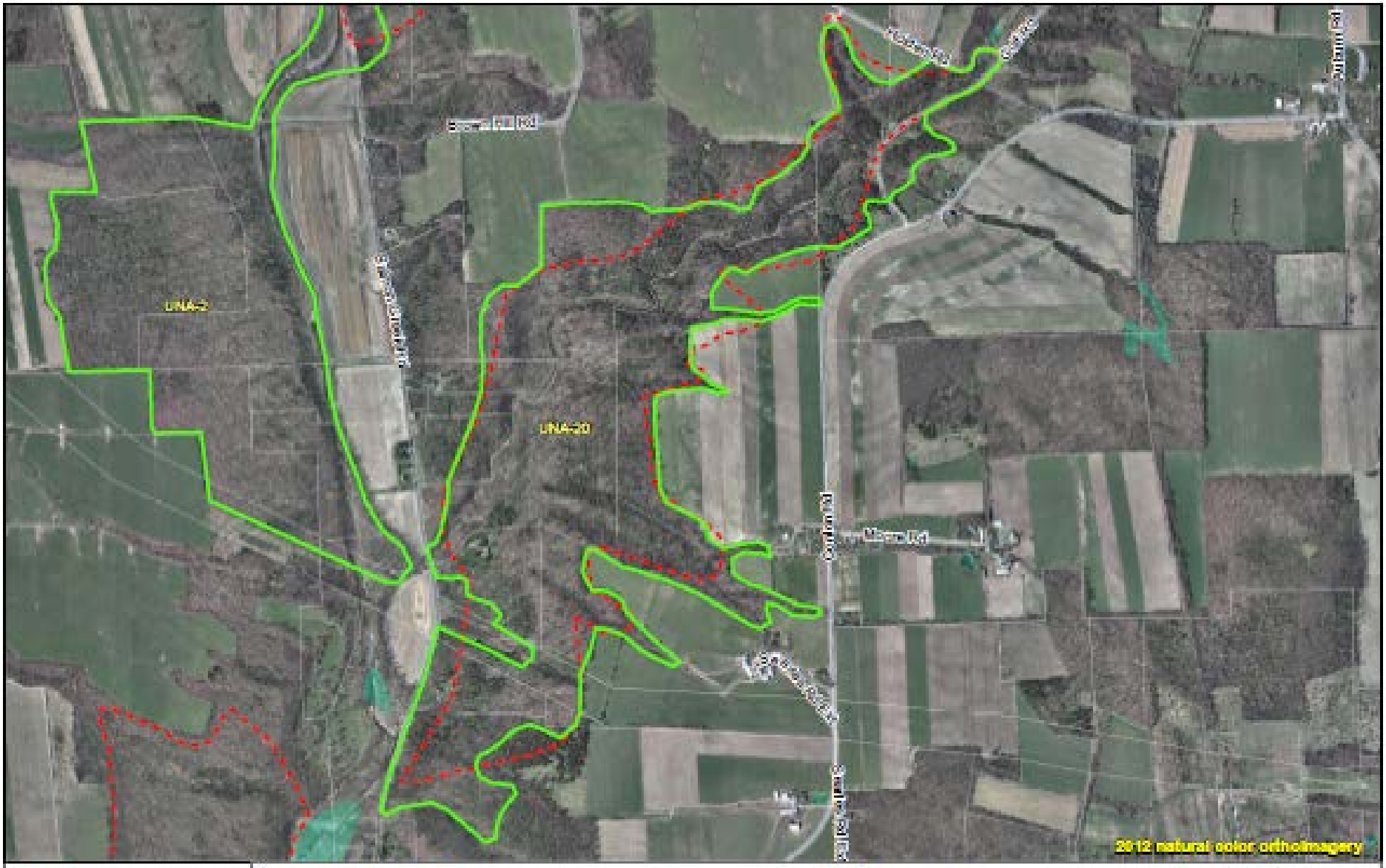


- 2009 aerial orthoimagery

Name	Sanguisorba Swamp
Code	UNA-16
Original acres	103.19
Revised acres	91.42
Percent change	-11.41
Reasons for changes	adjust to mature vegetation, parcel boundaries, follow some contours, exclude developed land

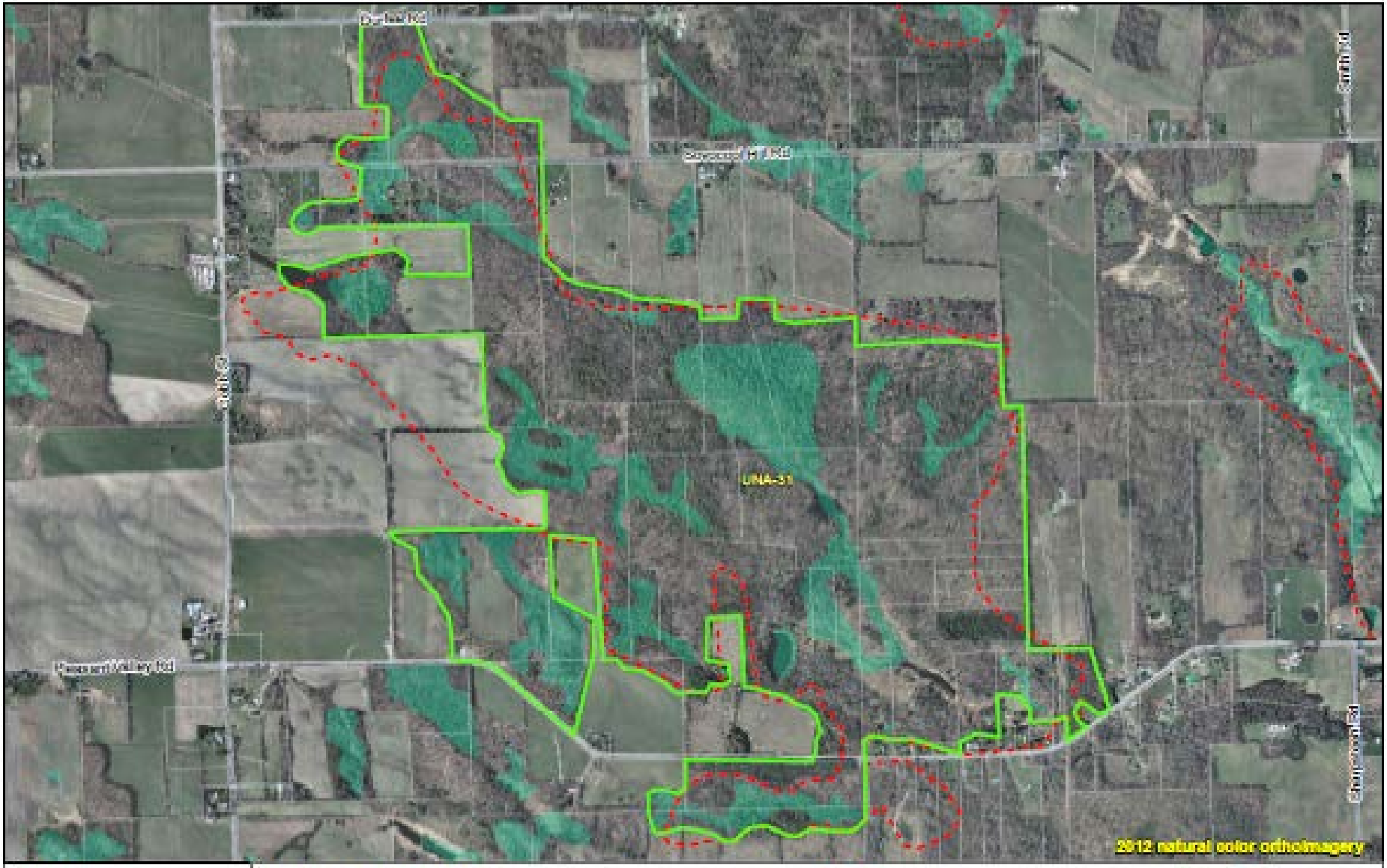
Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
TompkinsParcels2013
National Wetlands Inventory





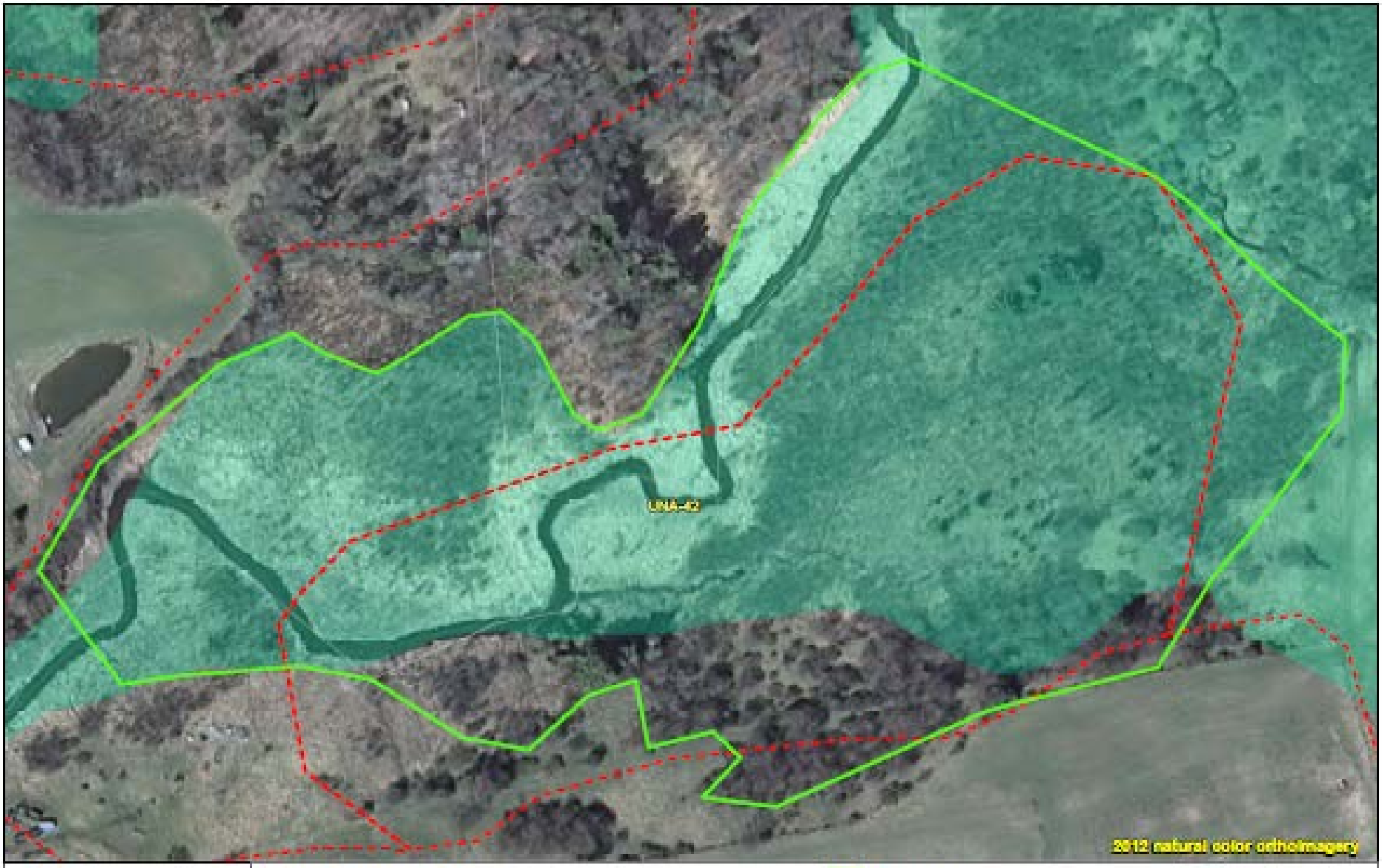
Name	Locke Creek Gulf
Code	UNA-20
Original acres	271.88
Revised acres	321.22
Percent change	18.15
Reasons for changes	edge of forest, mostly. some to road

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels2013
National Wetlands Inventory



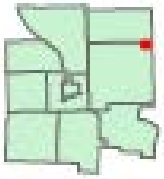
Name	Bear Swamp, Groton
Code	UNA-31
Original acres	650.97
Revised acres	685.51
Percent change	5.31
Reasons for changes	follow forest edge, parcels

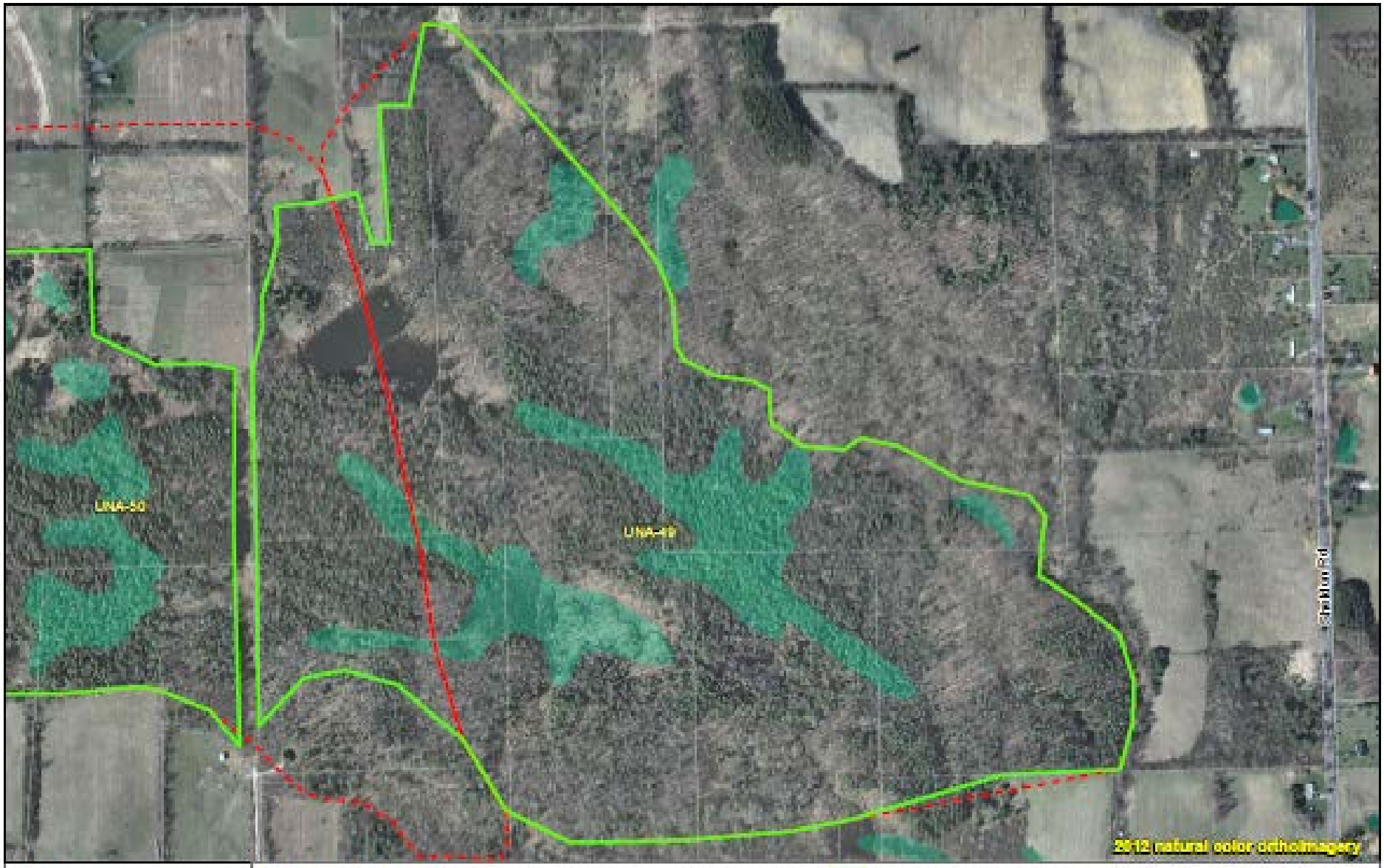
Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins/Parcels2013
National Wetlands Inventory



Name	Beaver Brook Springs
Code	UNA-42
Original acres	11.88
Revised acres	17.56
Percent change	47.81
Reasons for changes	adjust to vegetation, NWI, contours

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins/Parcels2013
National Wetlands Inventory





Name	Townley Swamp, East
Code	UNA-49
Original acres	170.07
Revised acres	197.36
Percent change	16.05
Reasons for changes	adjust to road, tax parcel, mature forest

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins/Parcels2013
National Wetlands Inventory

N

Name	Townley Swamp, West
Code	UNA-50
Original acres	261.94
Revised acres	196.49
Percent change	-24.99
Reasons for changes	adjust to road, tax parcel, mature forest

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
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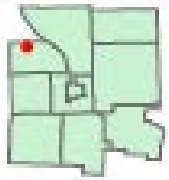
Name	Smith Woods
Code	UNA-57
Original acres	32.92
Revised acres	33.38
Percent change	1.4
Reasons for changes	follow forest edge

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



N

Name	Willow Creek Glen and Lake Slopes
Code	UNA-61
Original acres	272.5
Revised acres	273.58
Percent change	0.4
Reasons for changes	remove house dev, follow forest edge, parcels where ambig.

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
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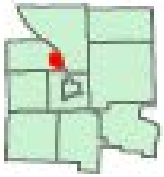
National Wetlands Inventory

Name	Maplewood Glen and Lake Slopes
Code	UNA-62
Original acres	208.02
Revised acres	204.13
Percent change	-1.87
Reasons for changes	remove house dev, follow forest edge, parcels where ambig.

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



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Name	Esty's Glen
Code	UNA-90
Original acres	14.39
Revised acres	15.77
Percent change	9.59
Reasons for changes	follow forest edge, parcels

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory

Name	Glenwood Ravine and Lake Slopes
Code	UNA-91
Original acres	244.96
Revised acres	238.98
Percent change	-2.44
Reasons for changes	remove house dev, follow forest edge, parcels where ambig.

Batch 2 revisions
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UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory

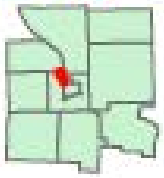
Name	Poyer Orchard Diatreme
Code	UNA-92
Original acres	1.49
Revised acres	1.38
Percent change	-7.38
Reasons for changes	to tax parcels

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory

N

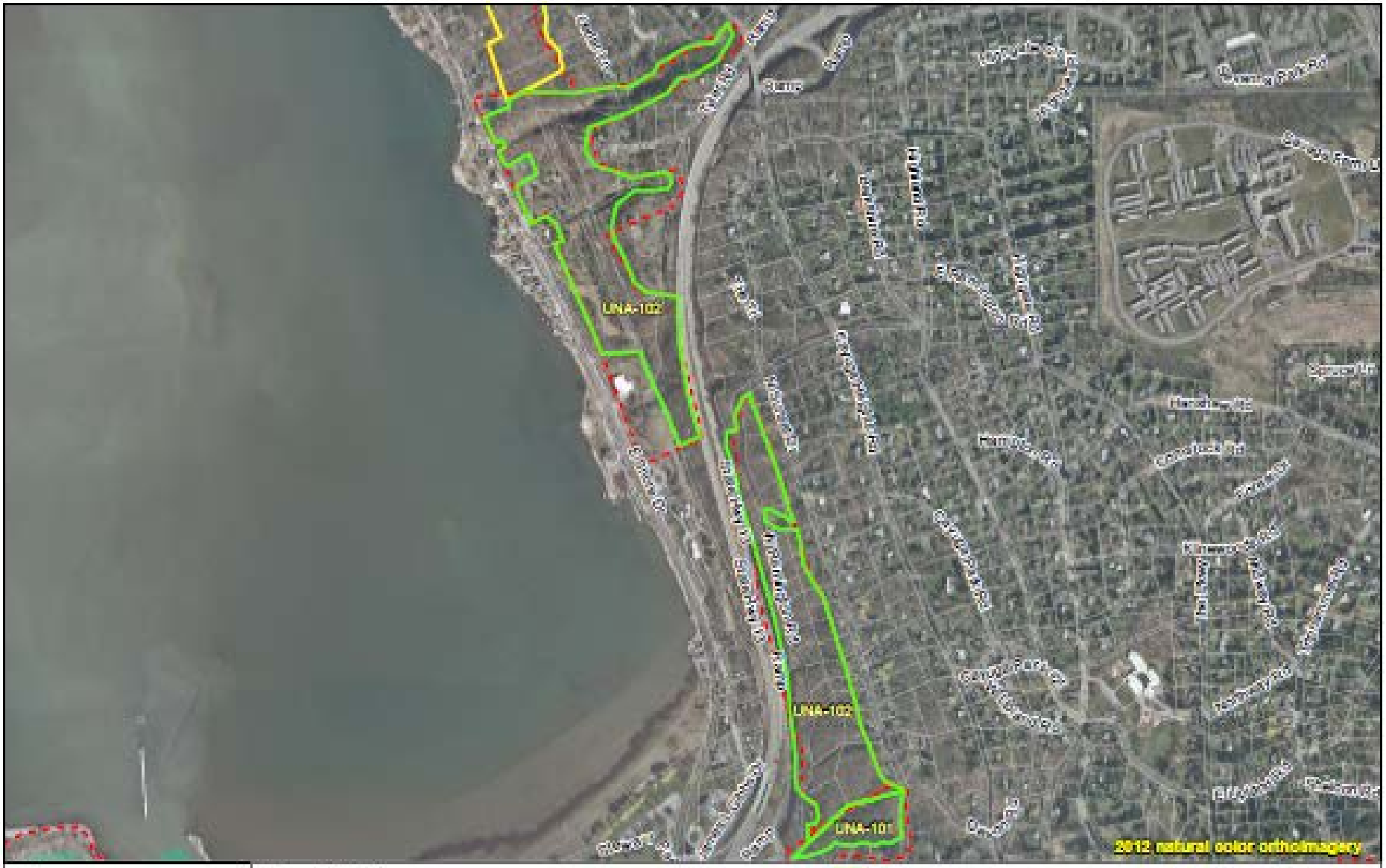
Name	Indian Creek Gorge and Lake Slopes
Code	UNA-97
Original acres	226.35
Revised acres	261.11
Percent change	15.36
Reasons for changes	adjust to contours, parcel boundaries, vegetation

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



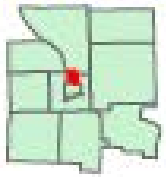
Name	Newman Tract
Code	UNA-101
Original acres	7.63
Revised acres	4.26
Percent change	-44.17
Reasons for changes	adjust to tax parcel

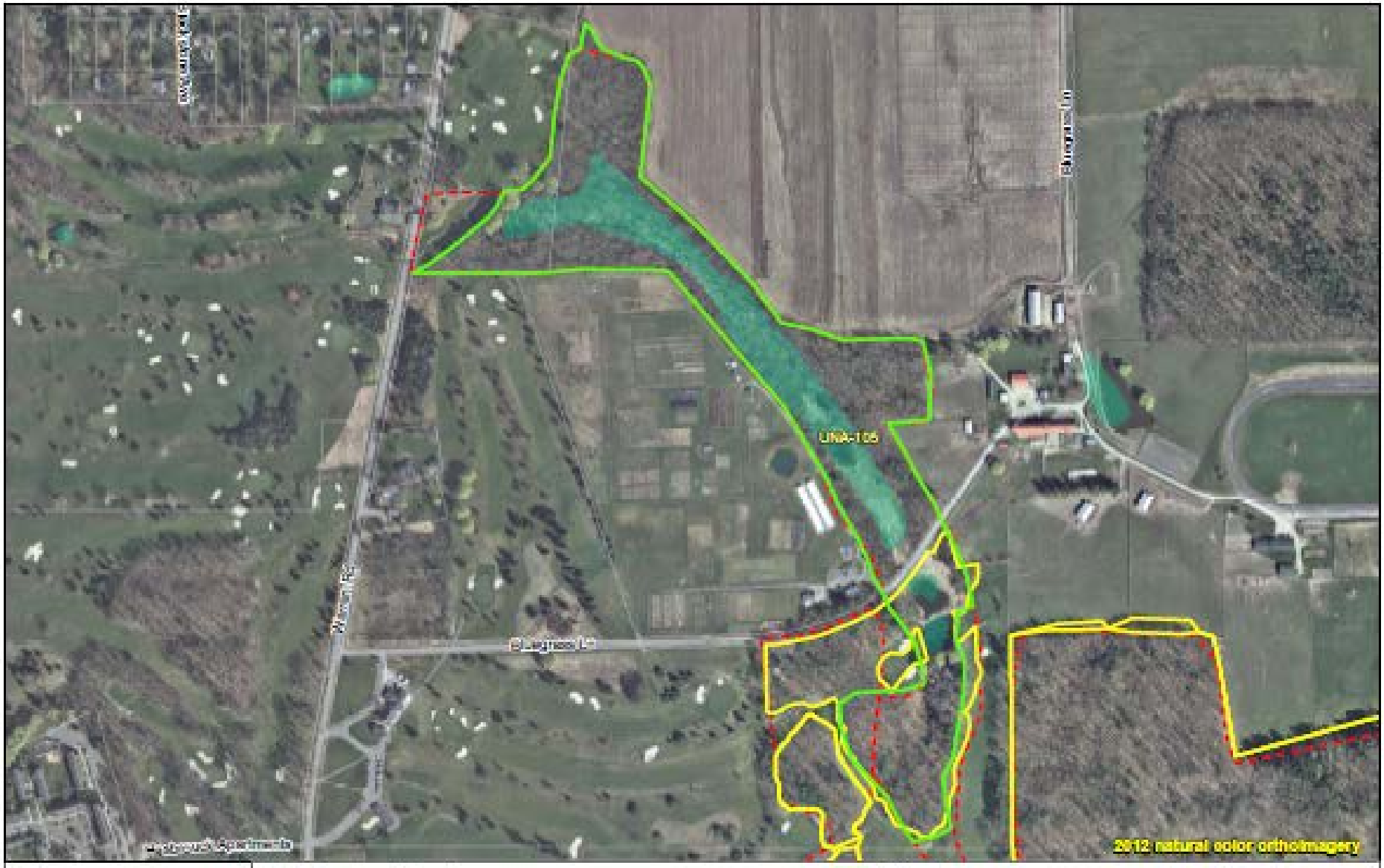
Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



Name	Renwick Slope
Code	UNA-102
Original acres	73.79
Revised acres	63.17
Percent change	-14.39
Reasons for changes	adjust to parcel boundaries, vegetation

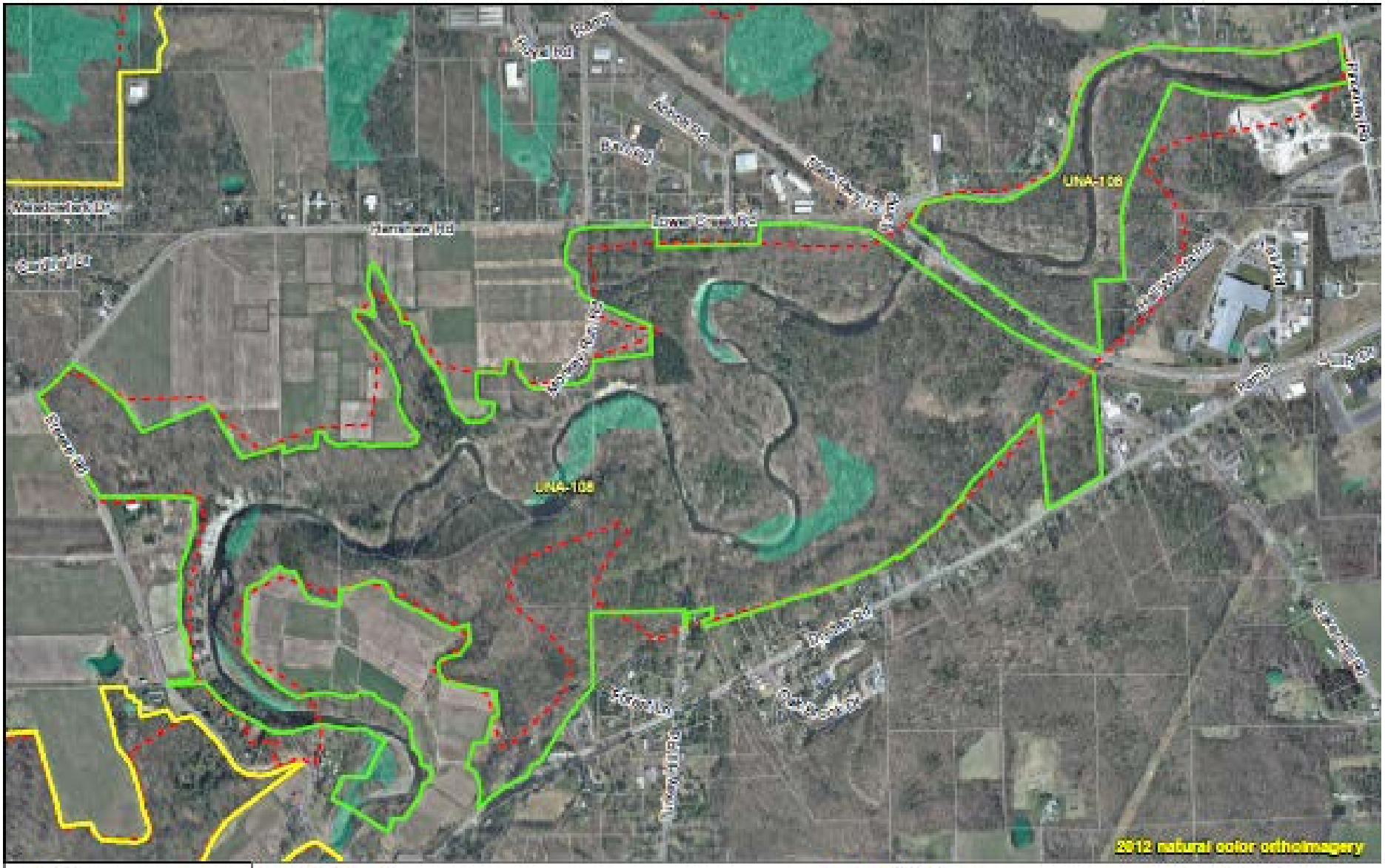
Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory





Name	Bull Pasture Ponds
Code	UNA-105
Original acres	32.87
Revised acres	29.39
Percent change	-10.59
Reasons for changes	adjust to vegetation, eliminate overlap with Fall Creek Valley UNA

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



Name	Monkey Run
Code	UNA-108
Original acres	548.28
Revised acres	543.7
Percent change	-0.84
Reasons for changes	used CU natural areas boundaries, adjusted to parcel lines and vegetation where appropriate

Batch 2 revisions
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UNA 2000 boundaries
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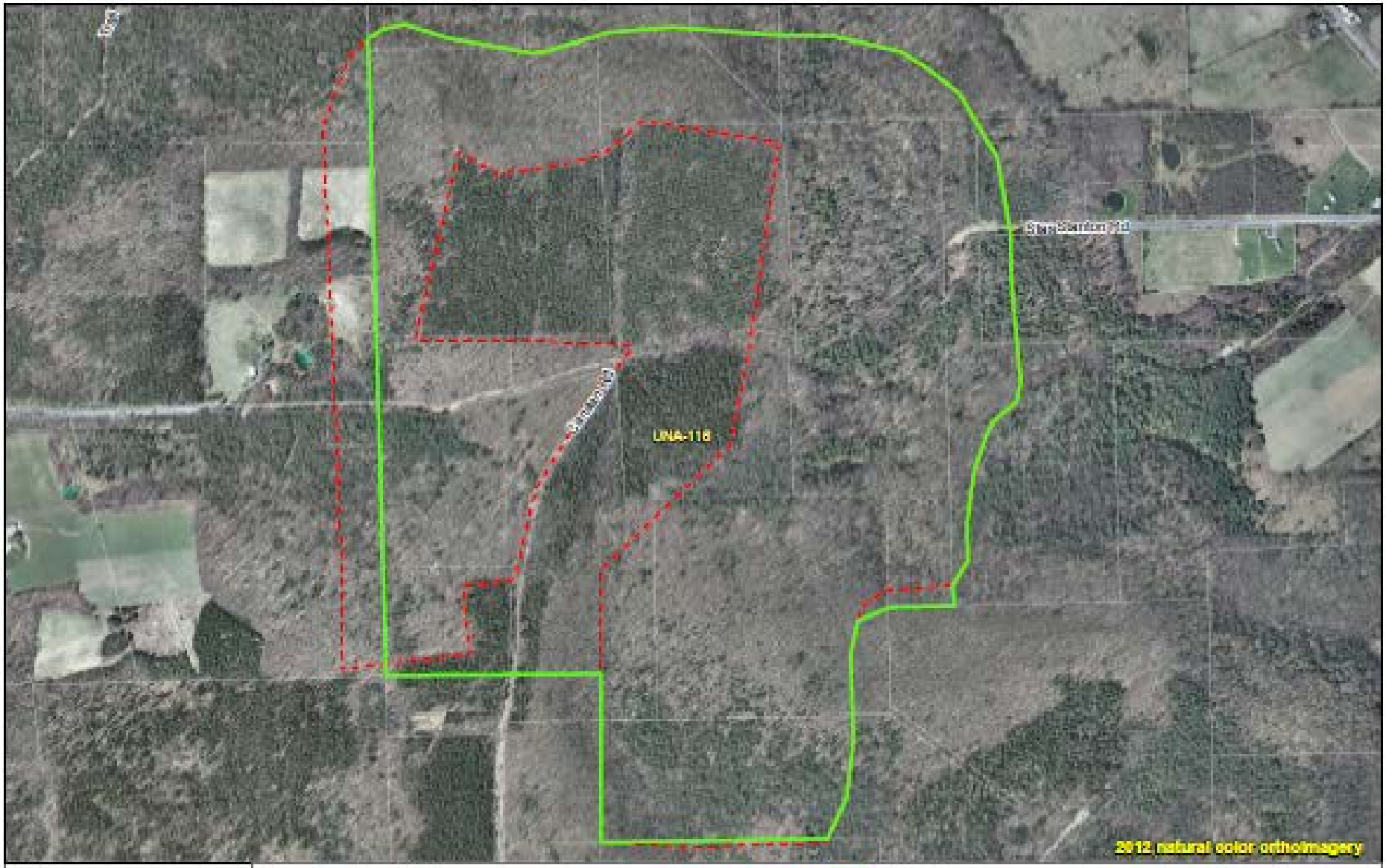
National Wetlands Inventory

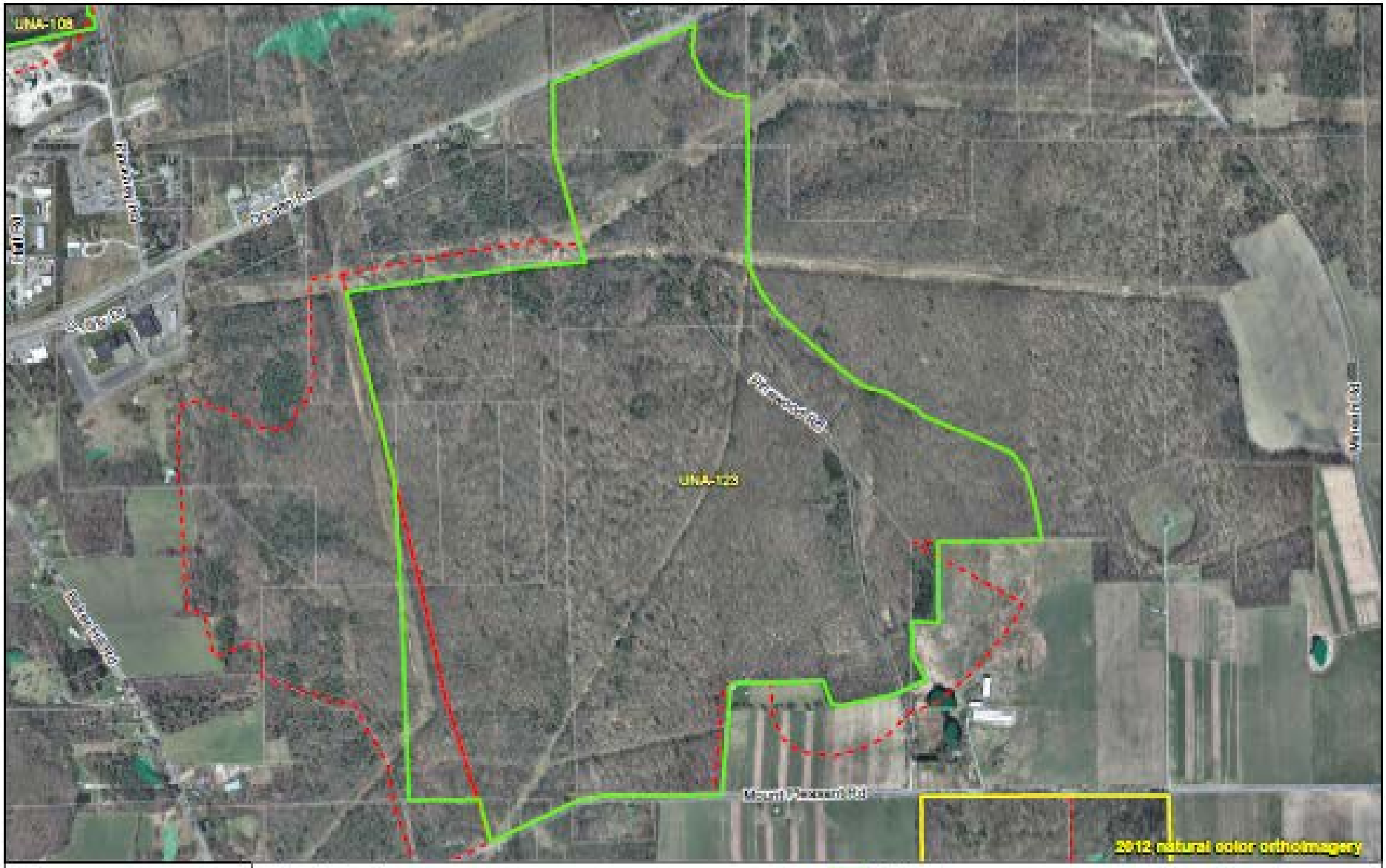
Name	Dryden Lake, Marshes and Swamp
Code	UNA-114
Original acres	413.03
Revised acres	378.85
Percent change	-8.28
Reasons for changes	adjust to contours, vegetation line, NWI

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



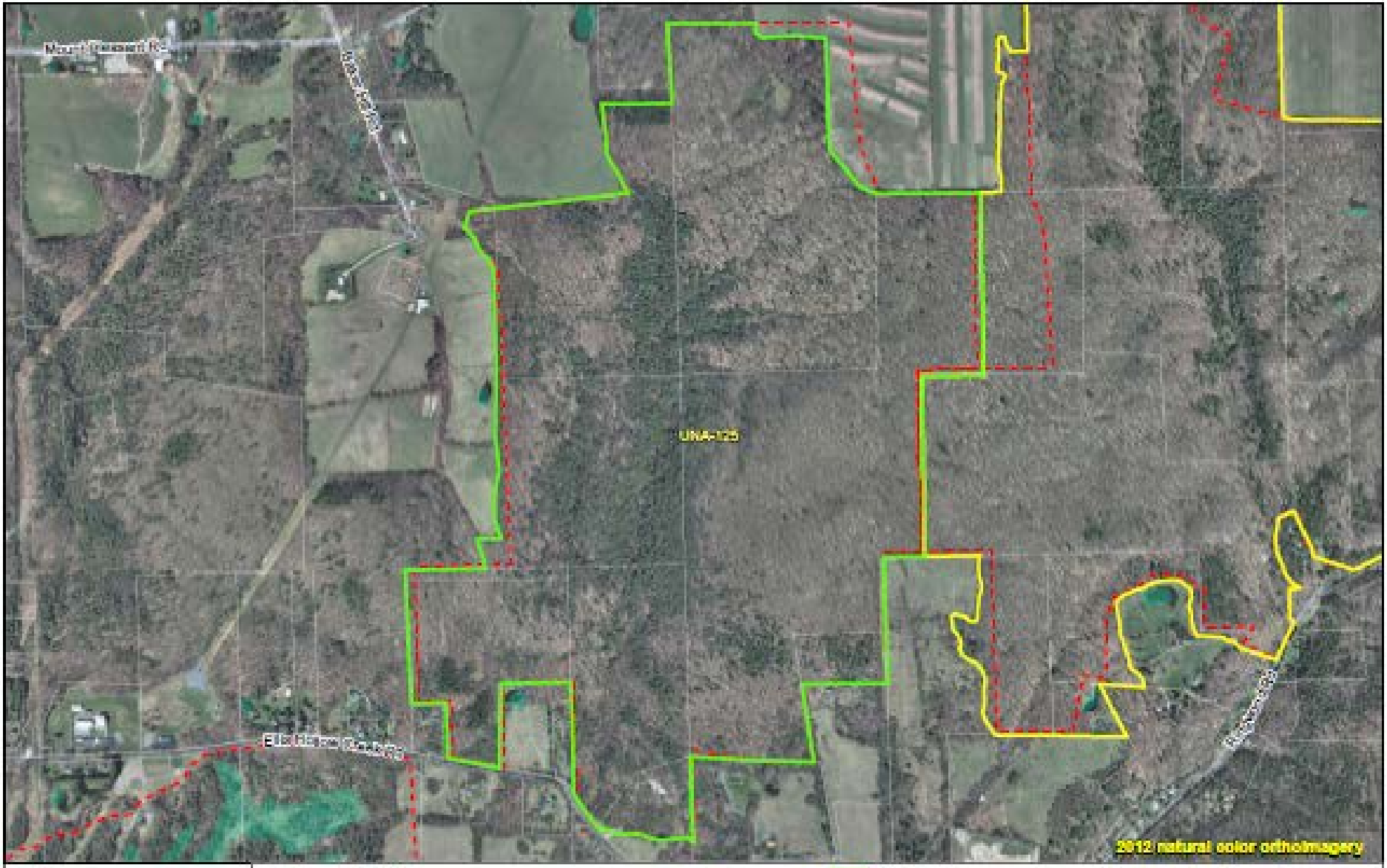
Name	Star Stanton Hill
Code	UNA-116
Original acres	326.8
Revised acres	408.34
Percent change	24.95
Reasons for changes	question on mid-section bump-out

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



Name	Pine Woods
Code	UNA-123
Original acres	482.08
Revised acres	466.19
Percent change	-3.3
Reasons for changes	follow vegetation edge, tax parcel line to square

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



Name	Durland Bird Preserve
Code	UNA-125
Original acres	436.15
Revised acres	437.94
Percent change	0.41
Reasons for changes	follow forest edge and generally tax parcels

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory

Name	Polson Preserve and Snyder Hill
Code	UNA-127
Original acres	633.31
Revised acres	646.05
Percent change	2.01
Reasons for changes	add in CU Natural area, adjust to vegetation edge, align to parcel boundaries where close

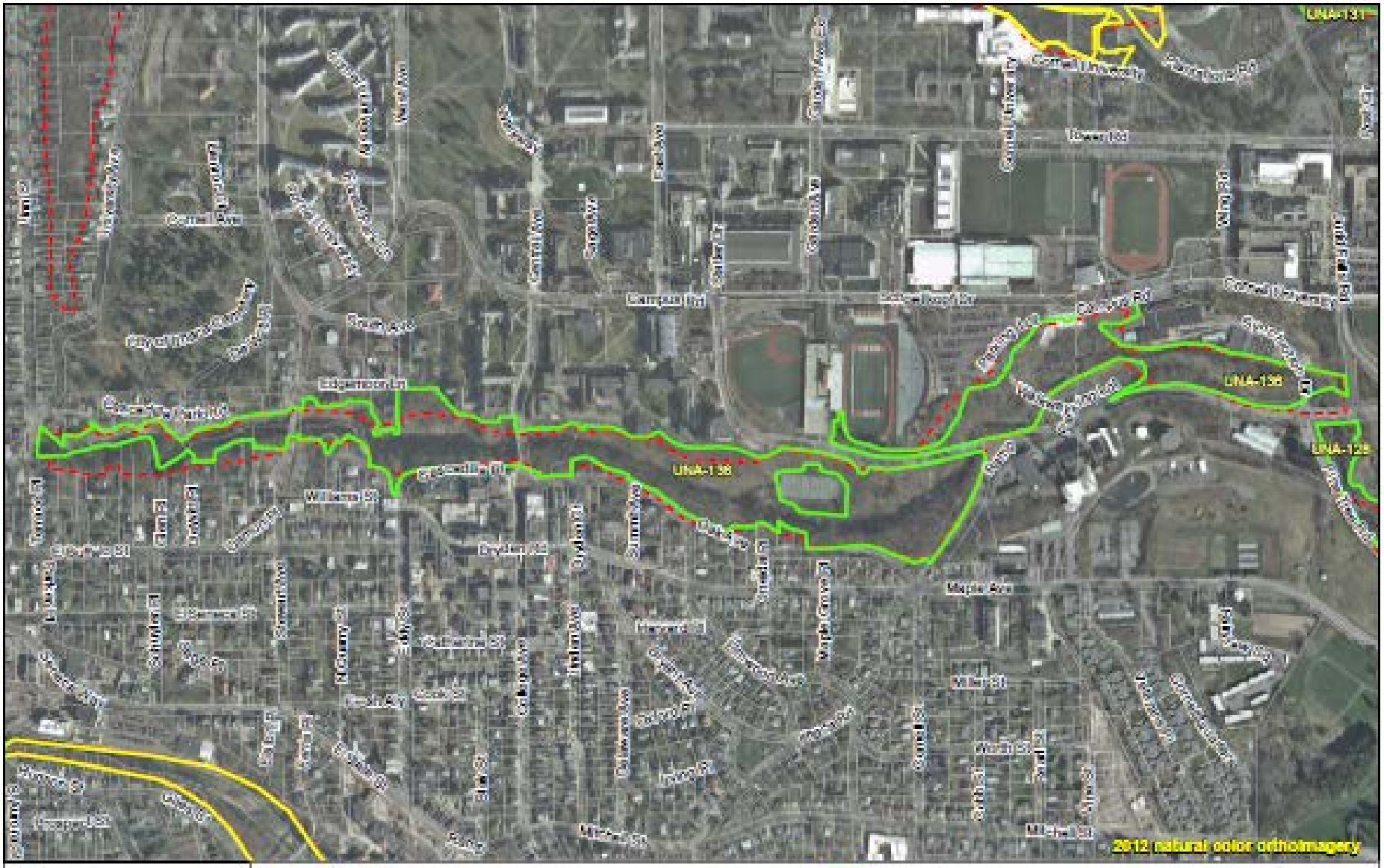
Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory

Name	Cascadilla Woods and Fish Ponds
Code	UNA-128
Original acres	60.84
Revised acres	75.25
Percent change	23.69
Reasons for changes	adjust to mature vegetation and Cornell boundary suggestion

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory

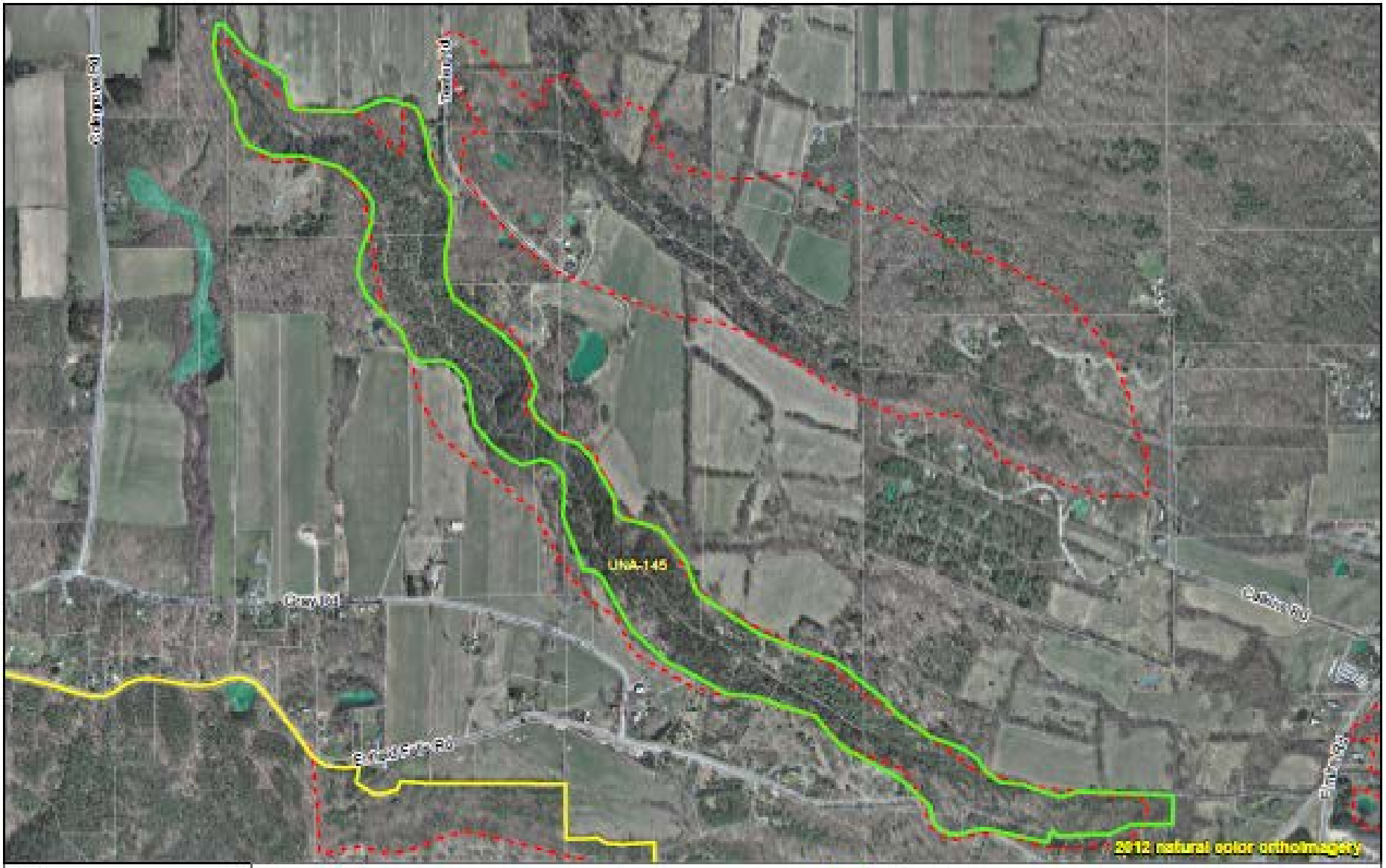
Name	Mundy Wildflower Garden
Code	UNA-131
Original acres	24.96
Revised acres	23.33
Percent change	-6.53
Reasons for changes	split from Fall Creek Valley UNA, with suggestions from CU Plantations

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



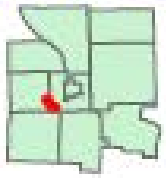
Name	Cascadilla Gorge
Code	UNA-136
Original acres	43.27
Revised acres	40.37
Percent change	-6.7
Reasons for changes	adjust to CU natural area, vegetation, some parcel lines

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



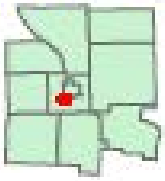
Name	Steep Hollow
Code	UNA-145
Original acres	135.42
Revised acres	122.74
Percent change	-9.36
Reasons for changes	adjust to mature vegetation, contour lines, minor adjust to parcel boundaries

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



Name	Negundo Woods
Code	UNA-153
Original acres	27.88
Revised acres	29.08
Percent change	4.3
Reasons for changes	adjust to mature vegetation

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



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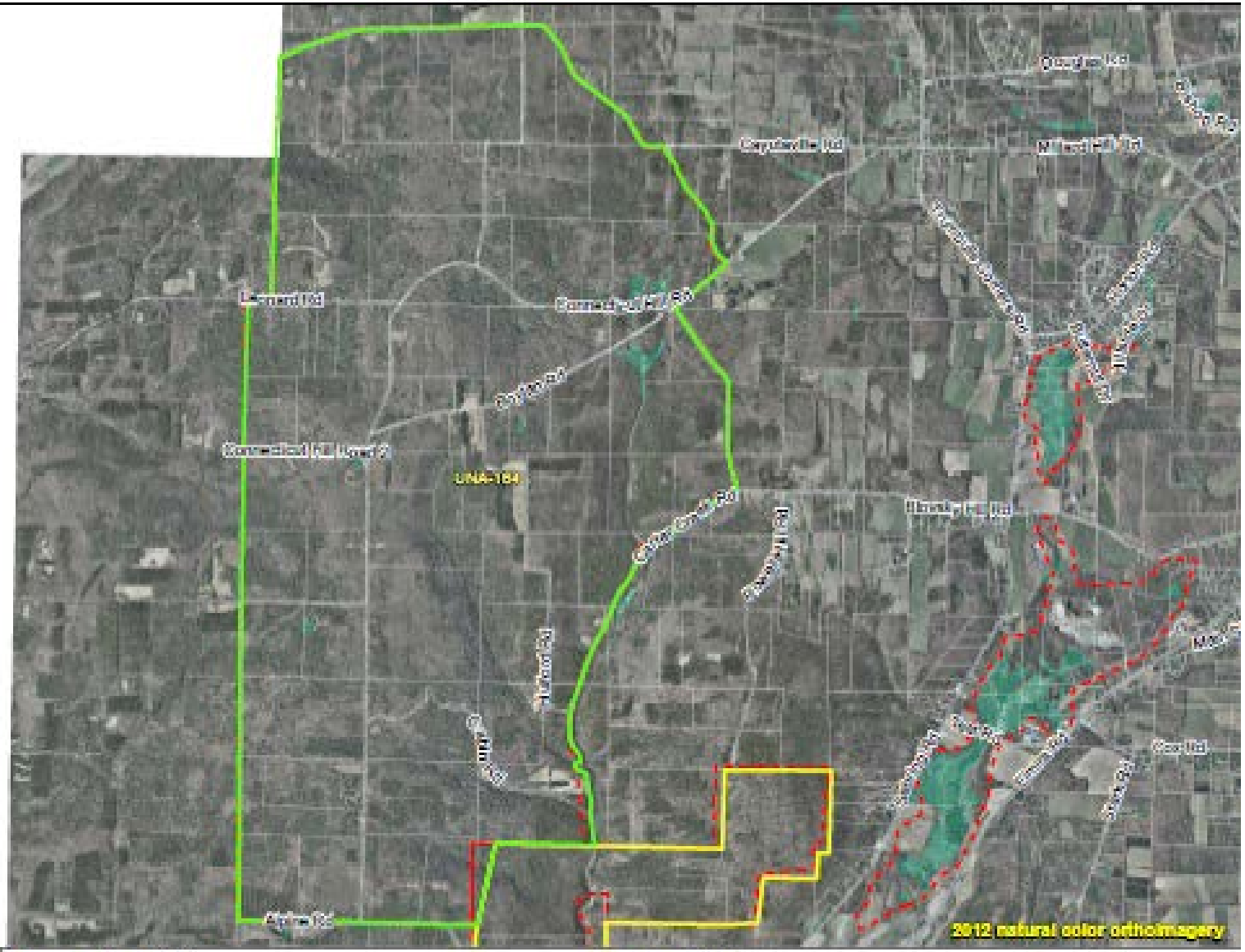


Name	Connecticut Hill
Code	UNA-164
Original acres	4215.77
Revised acres	4234.65
Percent change	0.45
Reasons for changes	mostly good, but snapped to some parcels

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory

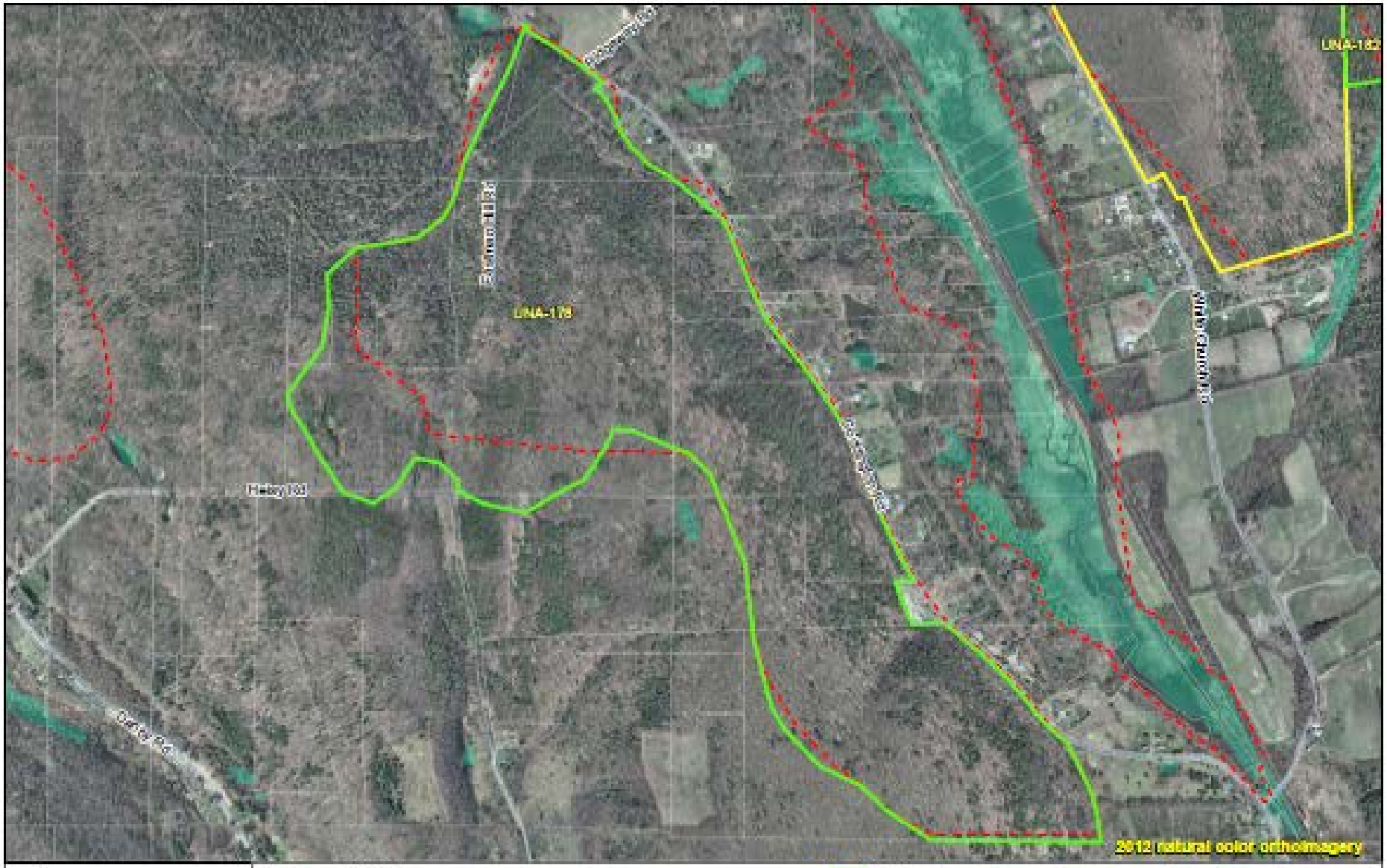
N

Name	Van Buskirk Glen
Code	UNA-170
Original acres	216
Revised acres	244.26
Percent change	13.08
Reasons for changes	IC land, tax parcels, contours, forest edge

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory

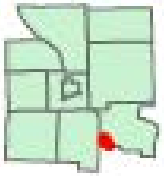
Name	Belle School Road Fen
Code	UNA-177
Original acres	21.16
Revised acres	20.5
Percent change	-3.12
Reasons for changes	follow tax parcel, take out edge of nwi

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



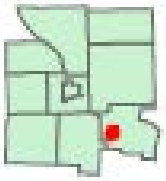
Name	Eastman Hill
Code	UNA-178
Original acres	366.67
Revised acres	405.08
Percent change	10.48
Reasons for changes	adjust to contours, parcel lines

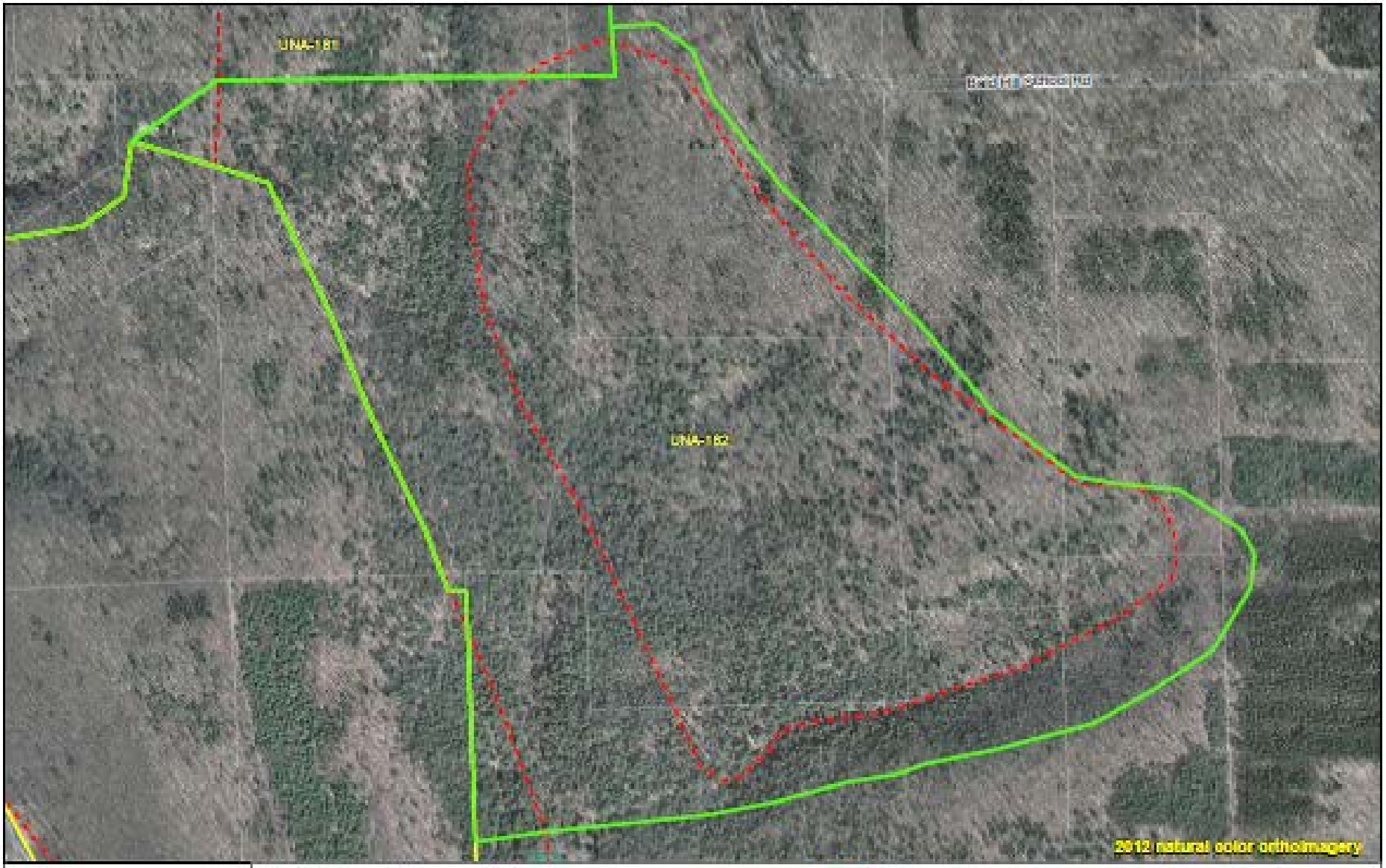
Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



Name	Bald Hill Woods
Code	UNA-181
Original acres	344.68
Revised acres	443.75
Percent change	28.74
Reasons for changes	adjust to boundary with Caroline Pinnacles, other nearby UNAs

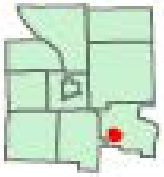
Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory





Name	Bald Mountain Laurel Woods
Code	UNA-182
Original acres	149.45
Revised acres	264.91
Percent change	77.26
Reasons for changes	follow other UNA to west, and also contour lines

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory



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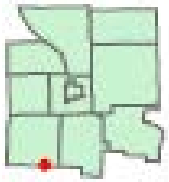
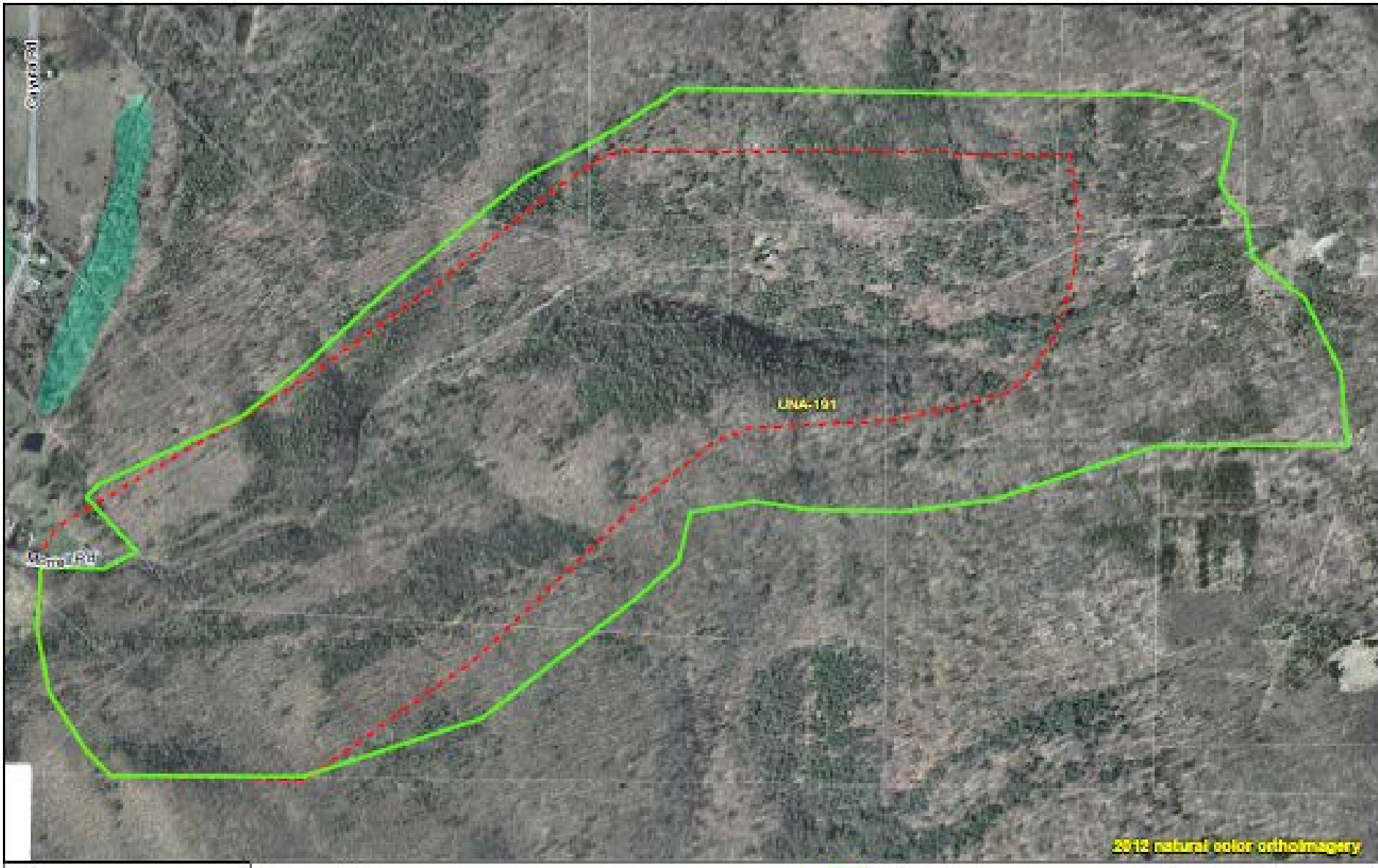
Name	Cornish Hollow Swamp
Code	UNA-190
Original acres	37.82
Revised acres	48.62
Percent change	28.56
Reasons for changes	use contours, parcel lines, road

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory





Name	Auger Hole
Code	UNA-191
Original acres	255.15
Revised acres	382.92
Percent change	50.08
Reasons for changes	adjust to ridge tops, property lines

Batch 2 revisions
Batch 1 revisions
UNA 2000 boundaries
Tompkins Parcels 2013
National Wetlands Inventory

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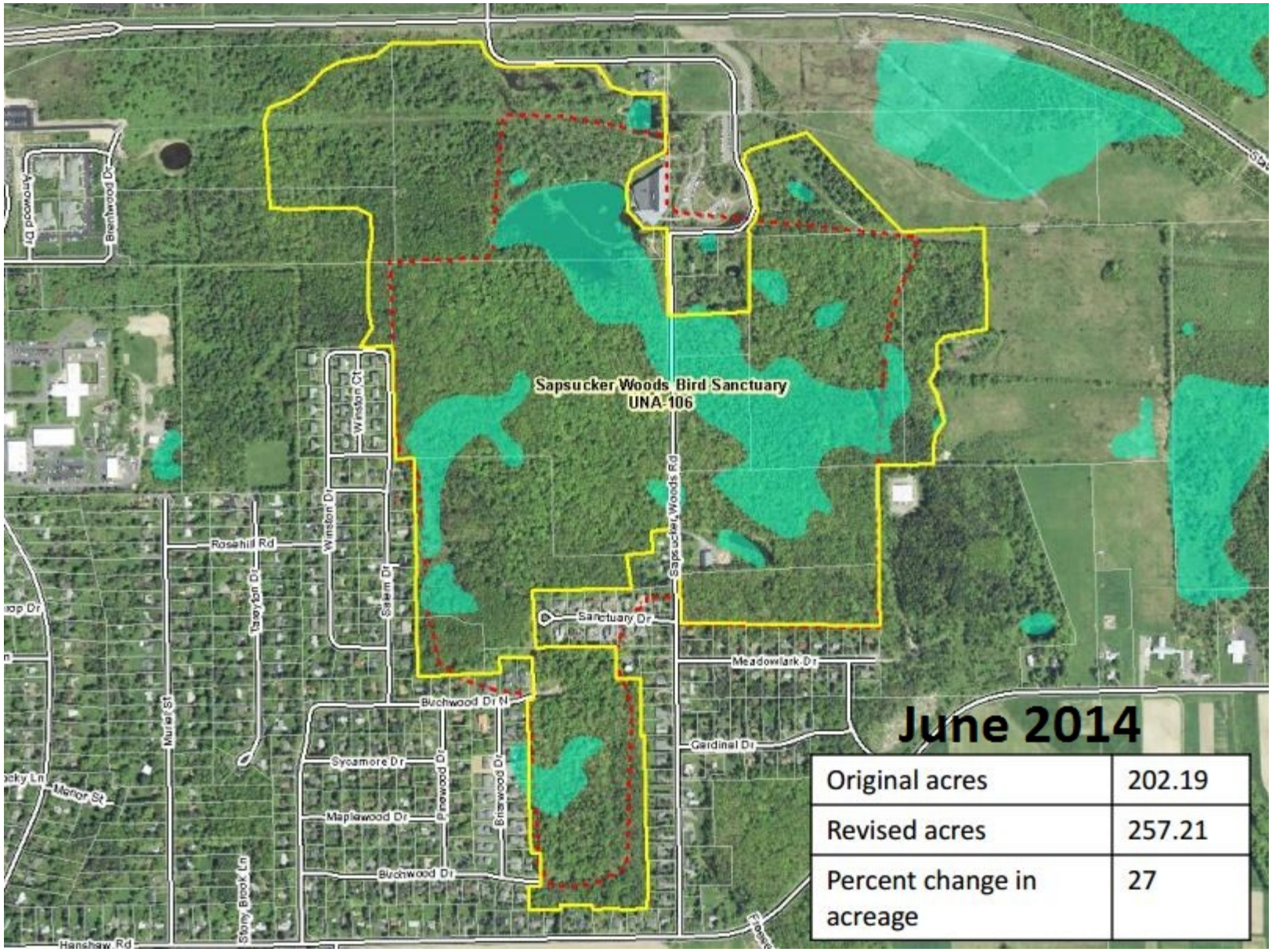

Original acres	202.19
Revised acres	257.21
Percent change in acreage	27