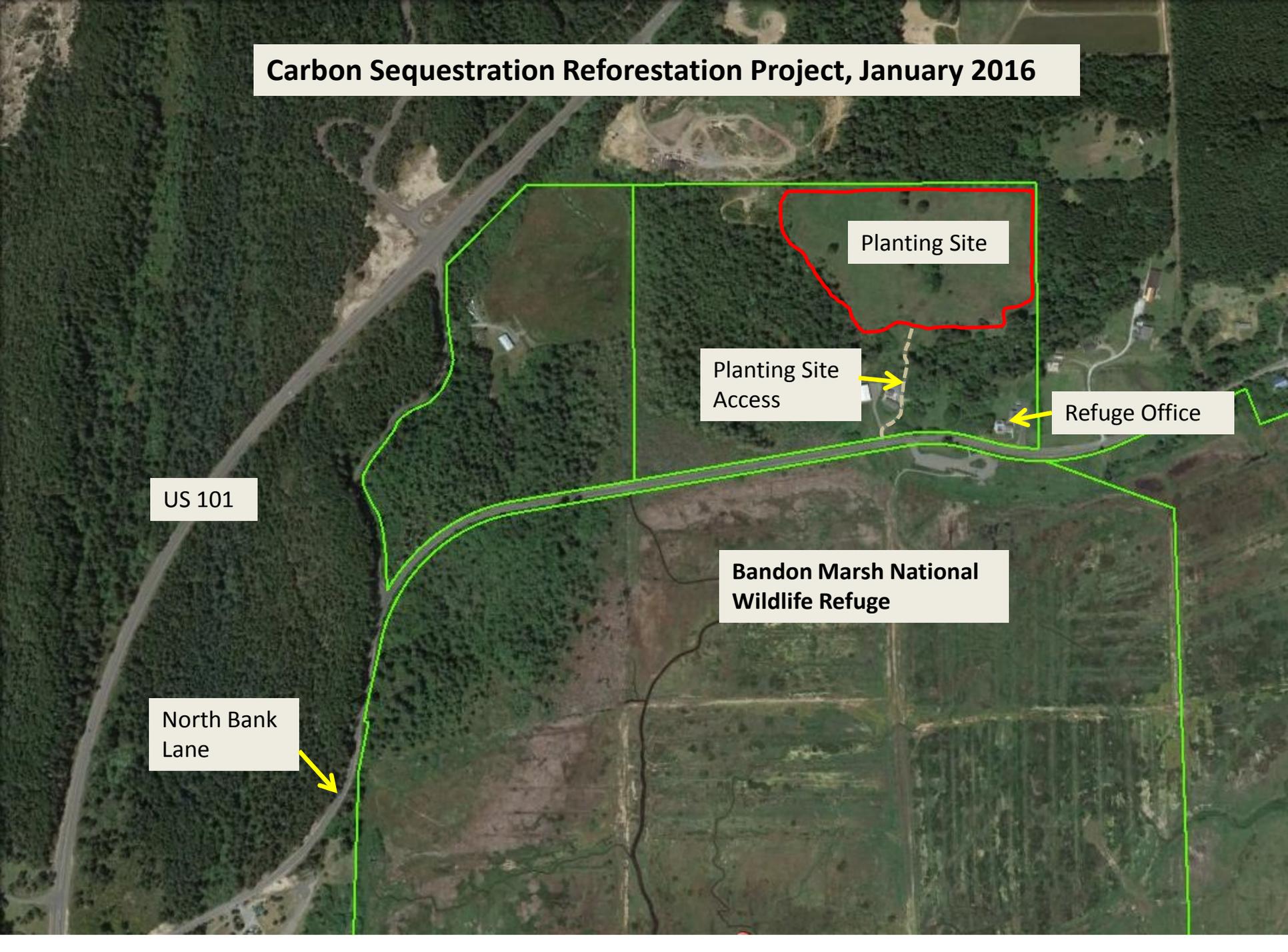


Carbon Sequestration Reforestation Project, January 2016



Planting Site

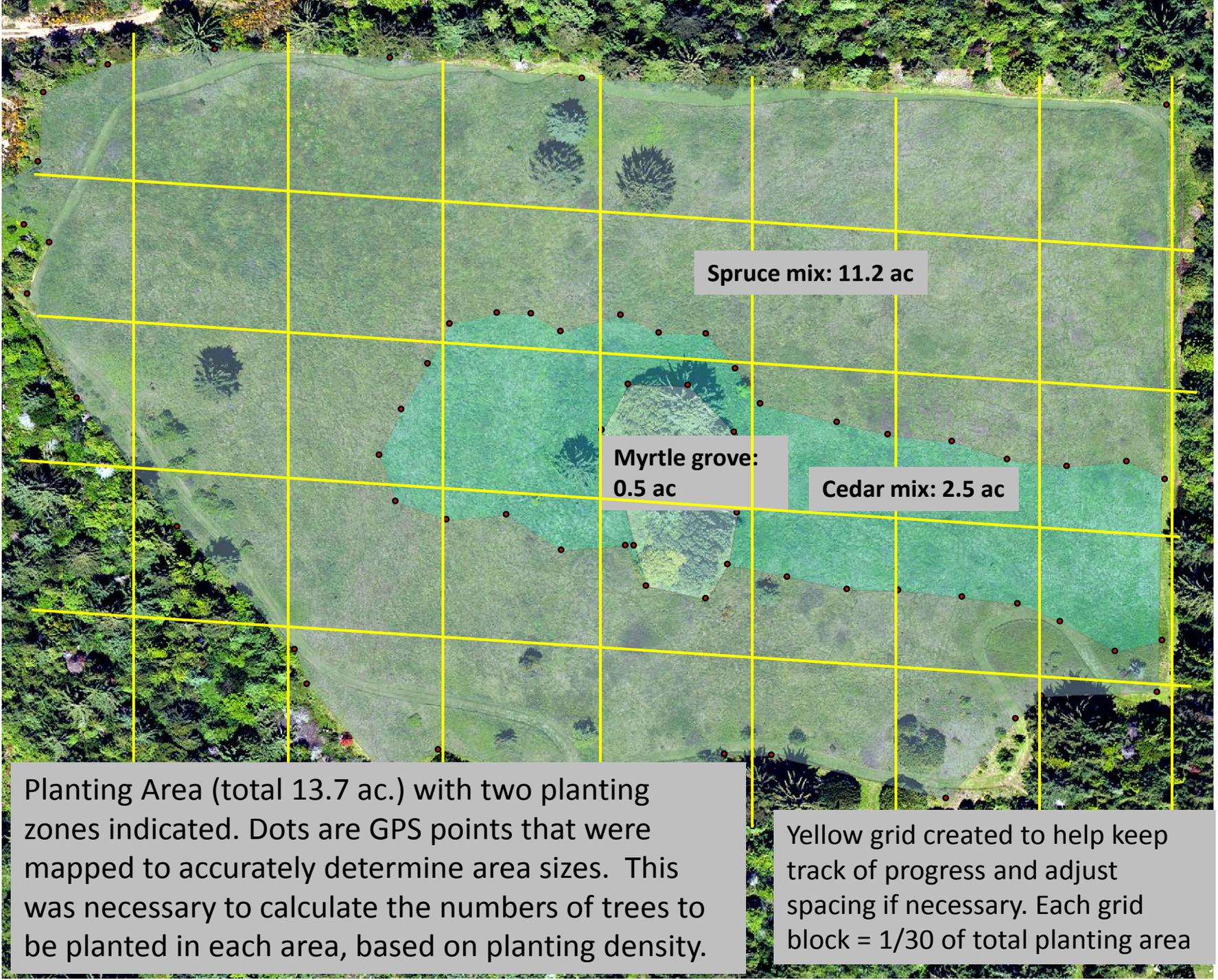
Planting Site Access

Refuge Office

US 101

North Bank Lane

Bandon Marsh National Wildlife Refuge



Spruce mix: 11.2 ac

**Myrtle grove:
0.5 ac**

Cedar mix: 2.5 ac

Planting Area (total 13.7 ac.) with two planting zones indicated. Dots are GPS points that were mapped to accurately determine area sizes. This was necessary to calculate the numbers of trees to be planted in each area, based on planting density.

Yellow grid created to help keep track of progress and adjust spacing if necessary. Each grid block = 1/30 of total planting area

Planting Proportions for each planting zone based on approximately 400 trees/acre (10' x 10' spacing). The planters loaded their ATV with groups of either 20 (Cedar mix) or 41 (Spruce mix) trees in the species proportions indicated. The trees were then distributed in the field off the ATV without regard to species.

Cedar mix	Number	Plant Proportion
Port Orford cedar	350	7
Western redcedar	350	7
Hemlock	200	4
Spruce	100	2
Total	1000	20
Spruce mix	Number	Plant proportion
Sitka spruce	2600	24
Douglas fir	1225	12
Western hemlock	325	3
Port Orford cedar	100	1
Western redcedar	100	1
Total	4350	41

Shrub species planting locations were marked with colored pin flags. Two shrubs were planted at each flag.

Species	Flag color	#	Planting Zone
Evergreen Huckleberry	Pink	200	Spruce mix
Salal	Orange	50	Spruce mix
Coyote bush	Lt. Blue/white	50	Spruce mix
Madrone	Lime green/Blue	50	Spruce mix
Oregon grape	Red	50	Spruce mix
Twinberry	White	75	Cedar mix
Snowberry	Dk. Blue	100	Cedar mix
Western Azalea	White/Pink	50	Cedar mix
Total		625	

Planting site mowed and ready for planting crew to arrive. The flagged stakes near the center of the picture outline the west end of the Cedar mix planting zone.



Some of the trees staged for distribution and planting.





Professional Reforestation crew planting the cedar mix in the east-central swale. Trees were staged and labeled within the zone before crew arrived.

Planting the spruce mix in the west half of the field. Colored pin flags indicate a shrub patch. All planting spots were grubbed (about a 1 foot radius from planted stem) and were mulched with cuttings from the mower to slow down the weeds.



6005 trees and shrubs all planted in less than four days! The challenge now will be to keep the plants from being overwhelmed by the grasses and forbs as they grow back from the mowing. We will probably use an herbicide sprayed from a backpack sprayer around each plant.

