



Crockett Lake Preserve

Vegetation Management

Noxious Weeds -2017 Treatments



WHIDBEY
CAMANO

LAND TRUST

MISSION

To actively involve the community in protecting, restoring, and appreciating the important natural habitats and resource lands that support the diversity of life on our islands and in the waters of Puget Sound.

Land Trust Overview



- Founded 1984
- Nonprofit nature conservancy and private corporation
- Non-regulatory
- Non-partisan
- Work with willing landowners
- Supported by private donors

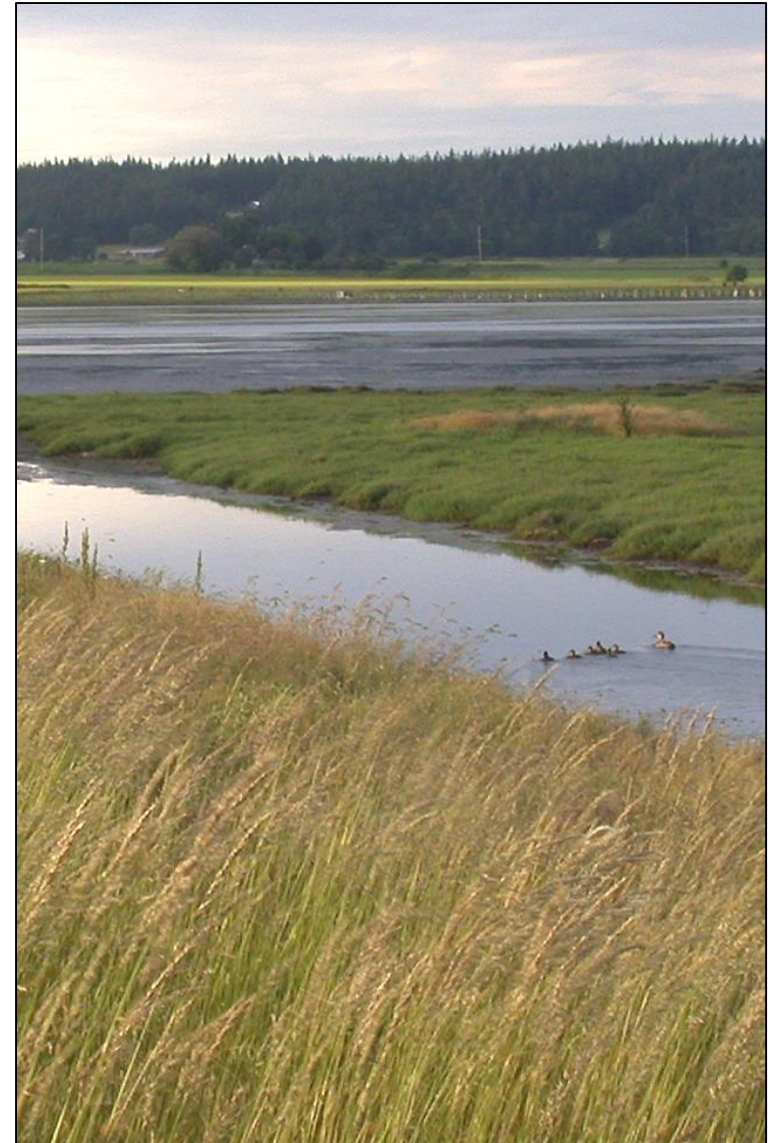
What We Do



- **Partner** with owners, community & agencies
- **Secure** funds & donations
- **Acquire** lands & waters
- **Steward:** restore & manage
- **Connect** people to land

Protection Tools

- Agency Assists (25)
- Conservation Easements (48)
- Fee Simple Ownership (17)



Recent Success and Current Projects

Fakkema Farm



Trillium Community Forest



Barnum Point



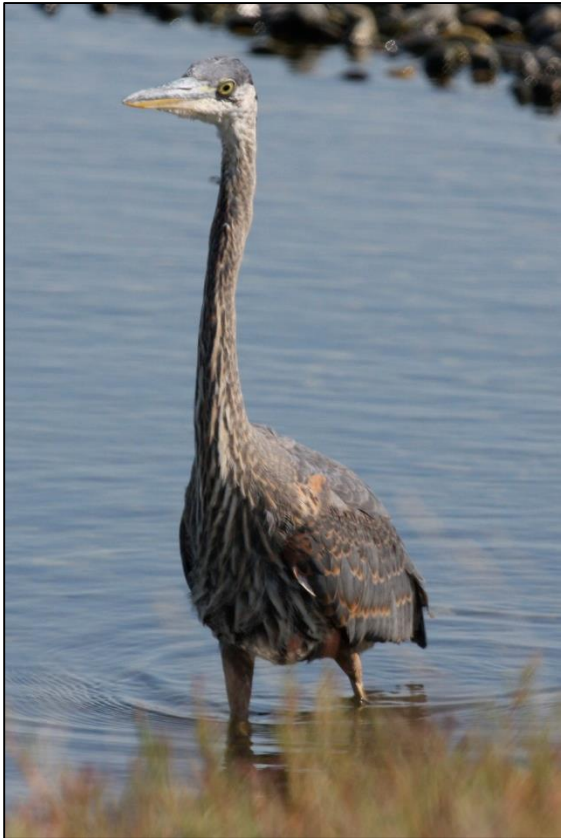
Protection Efforts – 1984 to 2011



Protection Efforts – 2011 to 2016



Purpose

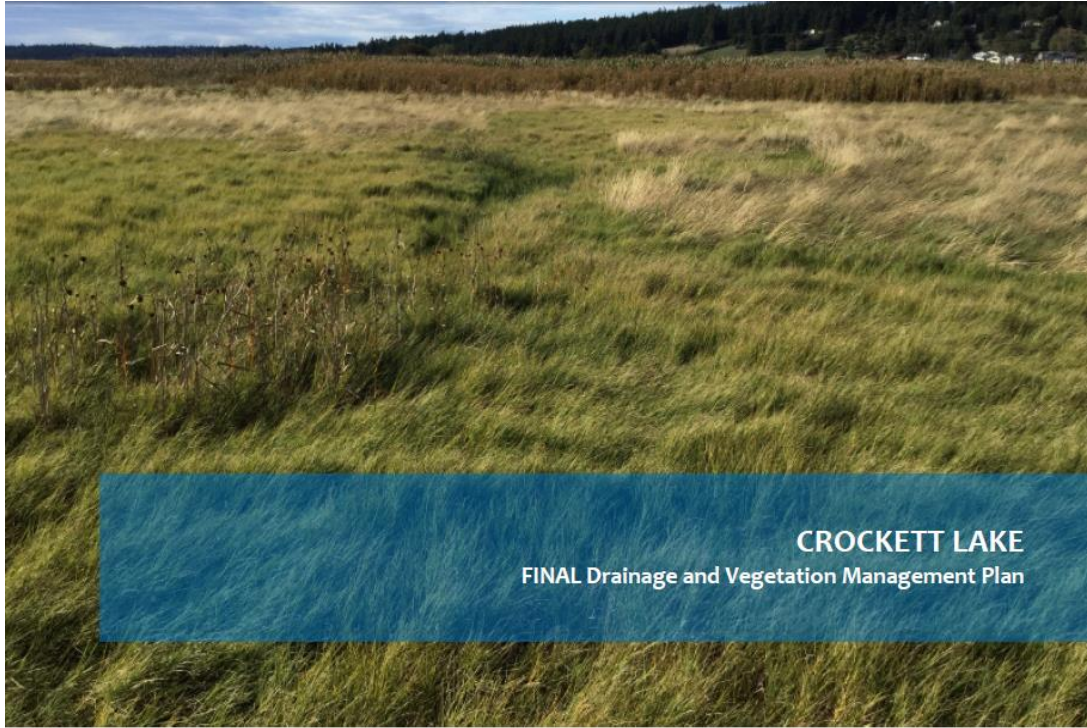


Noxious Weeds



Fig. 3 & Fig. 4, Hairy willow-herb site at Crocket Lake on Whidbey Island

Planning and Feasibility



Whidbey Camano Land Trust
765 Wonn Rd, C-201
Greenbank, WA 98253
(360) 222-3310



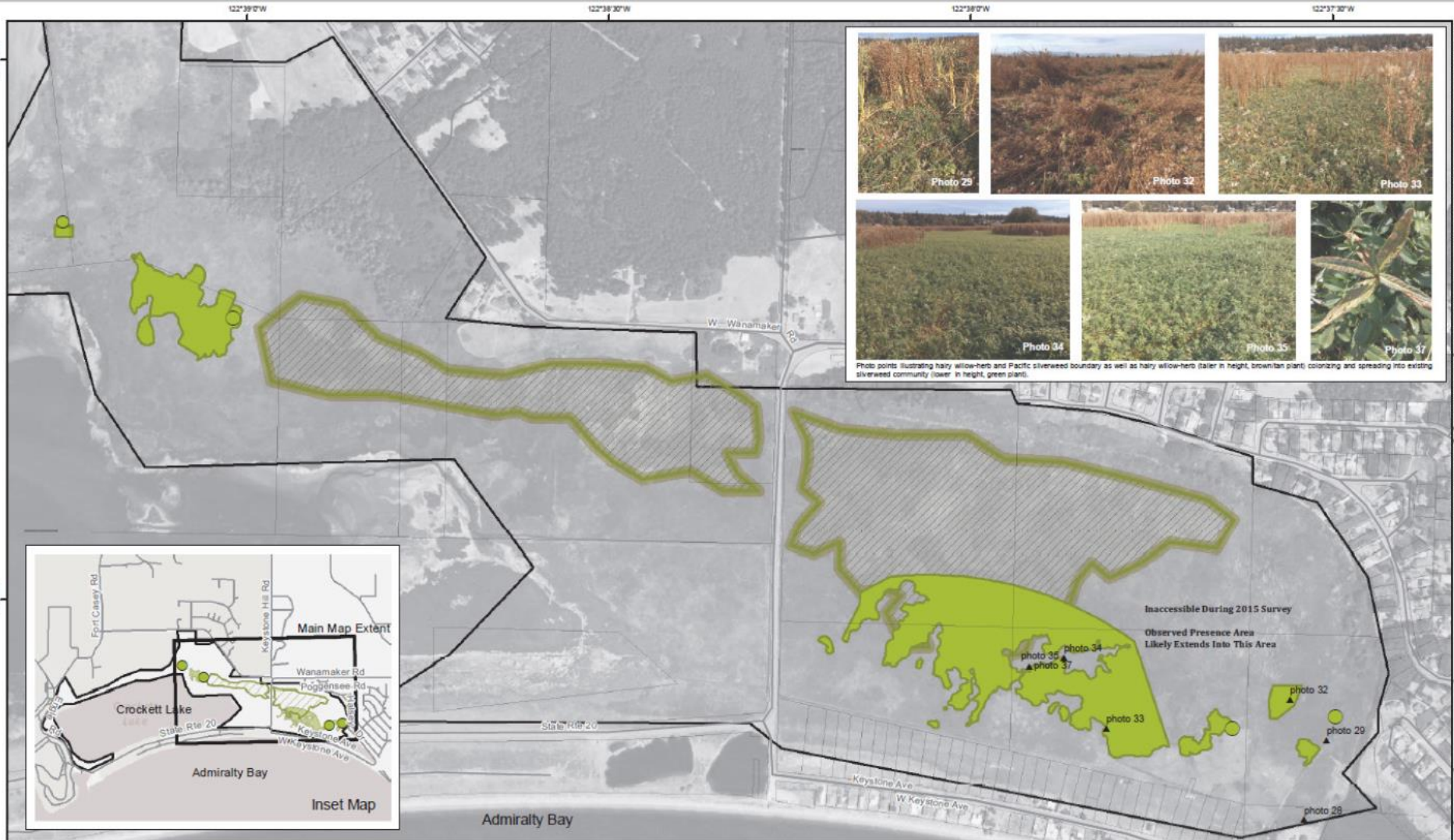
1900 N. Northlake Way, Suite 211
Seattle, WA 98103

Drainage



Crockett Lake Drainage and Vegetation Management Plan
Drainage Map of Crockett Lake East Property

Willow-Herb Mapping



Crockett Lake Drainage and Vegetation Management Plan
Hairy Willow-herb (*Epilobium hirsutum*) Survey Map

Data Sources: USGS NHD (1:24,000), USDA NAIP 2013, Island County

0 250 500 750 1,000 Feet
 Lambert conformal conic projection, NAD 1983
 State Plane Coordinate System (WA North Zone)

- Observed Presence, Fall 2015*
- Observed Presence, Fall 2015 (Point)
- Previous Known Extent, Current (2015) Boundary and Date of Survey Unknown*
- Project Boundary
- Photo Points
- Road
- Parcel Boundary

*Note: Previous known extent and observed, 2015, presence areas are cumulative.



Options

- Hydrologic Manipulation
- Flooding-Inundation
- Grading
- Biological Control
- Increase Salinity
- Herbicide



WDFW Partnership



Removal Methods

- Manual removal
 - Volunteer work parties
 - Dispersed patches w/ natives
- Mechanical removal
 - Mowing
- Chemical control
 - Imazapyr (0.5%) and glyphosate (2%)
 - Aquatic version of both (Habitat and Aquamaster)



Treatment Areas

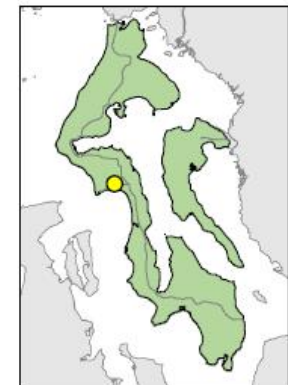


Crockett Lake Preserve

Hairy Willow-Herb Removal

Site Map

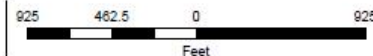
-  Subject Property
-  Willow-Herb Areas (70+ ac.)
-  Blackberry Areas (6 ac.)



1. Fully mapped. Primary population area and focus for herbicide treatment. 35 acres.
2. Partially mapped. Secondary population, not homogenous. Will be a combination of spraying and manual removal. 6 acres.
3. Unmapped. Historic sitings, but no recent data except for small patch. No treatment 20 acres until area is field surveyed.



Property boundaries are taken from Island County GIS tax parcel maps. These boundaries are approximate and may not match on-the-ground fencelines or actual survey markers.



Permits

- State
 - HPA (Hydrologic Project Approval) - WDFW
 - Aquatic Invasives Species Management General Permit - Ecology
- County
 - Shoreline Permit



Timeline – Completed Tasks

- **2015 - 2016**
 - Detailed planning on budgets and contractor selection
 - Treatment plan for willow-herb
 - Additional foot surveys for first round
 - Initial treatment of thistle, poison hemlock, blackberry, tansy
 - Get appropriate permits



Timeline – 2017 Tasks

- **2017**

- Conduct public outreach
- Implement 1st phase of treatment
- Evaluate effectiveness
- Treat additional species of concern
- Seek additional grant funding for 2018-2020



Timeline – Future Tasks

- **2018**
 - 2nd phase of willow-herb treatments, expand area towards the west
 - Evaluate effectiveness and determine native replanting needs for 2019
- **2019**
 - Third round of follow-up treatments
 - Native replanting

