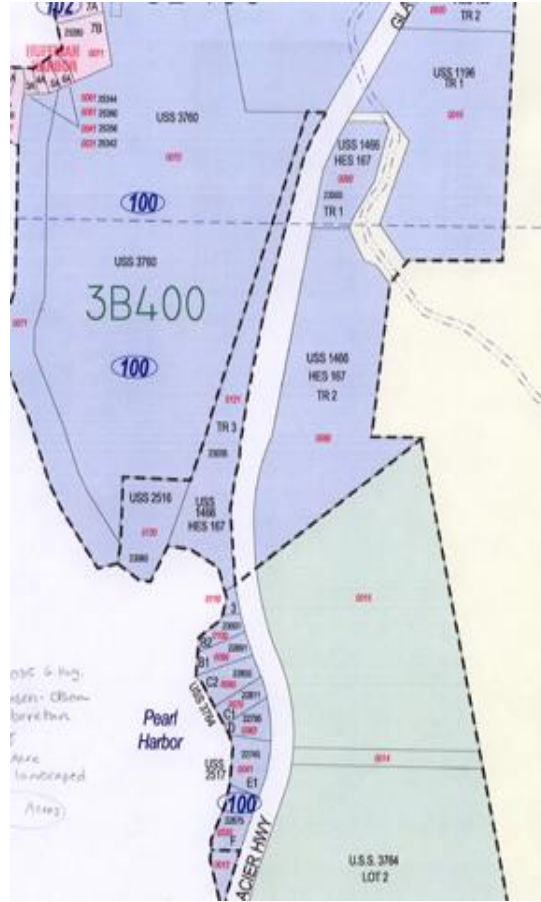


Landowner: City and Bureau of Juneau (CBJ)
Date: May 3, 2010
Assisted by: Dana White
GPS Coordinates: 58.48004, -134.78346
Land Cover: ~3 A of landscaped garden on coastal shoreline, bordering an old growth forest.
Predominant soil: Wadeleigh gravelly silt loam 7-12% slope
Size of Area to be Treated: ~3 A of the 15 A plot

PURPOSE (Check all that apply)			
<input checked="" type="checkbox"/>	Invasive Weeds	<input checked="" type="checkbox"/>	Minimize negative impact on soil, water, air, plant, animal & humans
<input type="checkbox"/>		<input checked="" type="checkbox"/>	Other: Develop an IPM plan
Target Pest Name	Invasive and Noxious Plants in Southeast Alaska		
Management method (selected alternative)	Develop a three year Integrated Pest Management Plan (IPM) for the Jensen-Olsen Arboretum. 27 known invasive plant species		
Application techniques (i.e., rate, timing, and method)	<p>The 3 year IPM plan will include invasive species, ecological impact, biology, invasive potential, management, and notes.</p> <p>The plan should also include a map, history, potential timeline, and place to record weed activities.</p> <p>Records will be added to the Alaska Exotic Plant Inventory Clearinghouse.</p> <p>The IPM plan would serve as a guideline for the current and future managers.</p>		
Additional specifications	All control efforts will be performed under the CBJ appointed manager's discretion.		
Other Information:			
<p>The soil reference for this area has come from our only reference, and might be outdated. <u>Soils of the Juneau Area, Alaska 1974</u> When the last soil reference was made the area which is now landscaped was not documented. The soil is very shallow and has been built up by cultivation over the past century on a rocky SE AK shoreline. The landscaped portion of the property is predominantly a lawn and garden on about 6 inches of dirt over gravel. Deduced from surrounding area to determine soil type.</p>			





Larger scale aerial view to note watersheds, perspective location, highways, and intact forest.



Aerial of Jensen Olson Arboretum

23035 Glacier Highway

Located off of the highway system ~23 miles, and is bordered by some of the most pristine wilderness in the world. The temperate rainforest of Tongass National Forest, Pearl Harbor, and Peterson Creek are all important habitat for wildlife, fishing, recreation, and wilderness.

Proposed Work plan:

The proposed work plan would include a template and draft of the IPM plan by early June and be availability for support.

The Arboretum already has been taking charge of several problematic species and has plans to work with the excessive sweet rocket and continuing knotweed eradication this summer. They will also have a group of volunteers to work on the property for Invasive Week Awareness Week, last week in June 2010. They are on the right track.

I hope to be available to offer any useful assistance I can to the project.

The final plan will be presented later in the year.

The Jensen-Olson Arboretum is a historic homestead from the late 1800's.

The Arboretum is governed by a SE AK Land Trust and CBJ, whereas CBJ appoints a manager who lives on site. This property has been cultivated for at least 100 years.

Caroline Jensen donated the property to CBJ a few years ago when she passed. Now it is a public botanical garden and arboretum operated under CBJ and the manager, Merrill Jensen. Coincidentally, Merrill is not related to Caroline.

Carolyn was an avid gardener, and rumors say she gardened from sunup to sundown, even in her 80's. She collected species from everywhere to test their ability to grow in the microclimate produced by the cove at Pearl Harbor. This would explain why there are so many species considered to be invasive.

Proper monitoring and mitigation will be included in the IPM plan. Some invasive species will be kept for their unique qualities, but hopefully carefully monitored and kept out of the surrounding ecosystem -- minimizing impacts to the environment.

I am going to propose signs be made marking those plants that should not be planted in Alaska.

Synopsis of work done this year:

The world of weeds never ends and there is a seasonal, full time employee who is constantly pulling weeds at the Arboretum, although they are short one employee with due to the recent economic cut backs.

2010

The knotweed was buried with gravel whacked to the ground every week or so and monitored for any growth. This stand is very weak. Treatment has been underway for several years.

April

Samia Savell (USDA-NRCS/CWMA) and myself (AACD Juneau IPC) met with Merrill Jensen, Manger of the Jensen-Olson Arboretum (CBJ member of the JUN-CWMA) offering our assistance in the development of an invasive plant management plan for the Arboretum. Samia published an article about the project in a NRCS newsletter.

June

Officially started compiling information about the 27 species of concern, plus other important articles. I printed copies of all of the species biology, ranking, and management options and record keeping ideas sheets. Several consultations with Merrill and controls being implemented (OH) as well as inquiry to what would be a useful invasive plant management plan. We decided to start with the list and create a tangible document for reference. A three inch binder was filled with information accompanied with duplicate digital files. I also provided Merrill and the Arboretum outreach material to display and distribute to the community (USDA-USFS brochures, garlic mustard and oxeye daisy posters, King County knotweed information, "Don't Plant in Alaska" etc). As the summer unfolds we both agree this plan can continue to develop later in the year when we have more time to look at it.

July

The first draft of the IPM plan was delivered to Merrill Jensen, Manager. He was very happy to get the book and digital file. But mostly, I have gotten the city and Arboretum's attention and helped them get to the next step. While I was there I noted at least three more invasive species not on the list and recommended their addition. I have offered my assistance and have spoken with his groundskeeper, Bill about other problematic plants. I have asked for feedback and ideas for improvement to make the plan useful. The rest will be decided in the fall when we both have more time.

Last week of July

Merrill had over 27 volunteers come for Invasive Weed Awareness Week and pull Dame's rocket as it is beginning to escape the cultivated area and enter the forest edges.

October

Merrill attended CNIPM conference in Fairbanks

Jensen Olsen Arboretum: CBJ/non-profit

November

After several back and forth conversations and attempts to meet through the holiday season we have finally made a date to finalize the report. Late November we met at the Arboretum and collected data for all the known infestations on the property to upload into AKEPIC (30 entries). We discussed invasive plant issues and basic concerns, including the possible addition of Marsh forget-me-knots *Myosotis plaustris*, Large Leaf Lupine, and Comphrey.

December

Add record keeping systems to the binder and talk of invasive plant stickers or markers illuminating those species other gardeners should be aware of.

Follow up and Recommendations:

All control efforts will be performed under the CBJ appointed manager's discretion.

2011

Top five for next year's control efforts:

1. Bohemian Knotweed
2. Orange Hawkweed
3. Herb Robert
4. Dame's Rocket
5. Creeping Charlie

We are scheduled to meet in February to finalize any missing information or ideas to the management plan.

2012 →

Each following year will be assessed and a plan will be determined accordingly. The current manager is very concerned and involved with the invasive plant situation.

A good record keeping system will prove useful to future managers of the Jensen-Olsen Arboretum.